

بسم الله الرحمن الرحيم

Kingdom of Saudi Arabia  
Ministry of Higher Education  
Majmaah University  
College Of Sciences



المملكة العربية السعودية  
وزارة التعليم العالي  
جامعة المجمعة  
كلية العلوم

# Scientific Research Handbook



جامعة المجمعة  
Majmaah University

1433-2013

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## Brief of the Deanship

The Deanship of Scientific Research was formed in concurrent with the foundation of the university on the 3rd of Ramadan in 1430. The actual work was activated on 9 / 11 / 1431 with the designation of the His Excellency, the University Rector Dr. Khaled Bin Saad Al Migren to his Excellency Dr. Ibrahim Ali Allehaidan as a Dean of Scientific Research.

The Deanship of Scientific Research has decided starting the development process from where others are standing today, and provide support to research in the light of the strategic vision of the university and based on the following priorities:

- Financing of research projects.
- Developing the Deanship' website to enhance all communications electronically.
- Encouraging excellence in research and contributions using a schema of awards.
- Developing databases that include reviewers and contributions of faculty members.



**Dr. Khaled bin Saad Al-muqrin**  
**Director of MU**

The most important achievements of the Deanship of Scientific Research during its first year are:

- The establishment of research centres with all the required facilities and nominating directors and board of directors for them.
- Financing research projects, where more than 130 research projects have been supported at a total cost exceeding 5 million riyals.
- Releasing of a periodical newsletter issued by Deanship of Scientific Research in both Arabic and English languages.
- Activate awards of research excellence, which include best research awards in both applied and humanities sciences and best departments awards among both applied and humanities departments.
- Development of databases of reviewers and faculty members' contributions.
- Prioritize research projects in the light of communities' needs which have been finalized by the research centres and considered as proposed research projects.
- Organizing workshops in several colleges of the university to increase faculty awareness on importance of scientific research and provide support to enable them to register in different databases on the Deanship' website.
- Increasing awareness of faculty members of external supporters who can provide finance to research projects and enhancing effective relationship with them. Representatives from King Abdu Al Aziz City for Science and Technology have been invited for several workshops held at Majmaah University to communicate with the faculty members and to provide answers to their quires.

## **The Vice Dean's Speech**

Undoubtedly, research is an important factor in the development and progress due to its effect in spreading the concepts of innovation and creativity, as well as equally presenting suitable solutions to the problems of the university and society. This young university, lead by its president, has decided to start where others finished, and to provide research with great interest and support that reflect the university's strategic trends, along with emphasizing the necessity of essentially directing research activities to the sustainable development of the region

The deanship of higher education and scientific research was established at the beginning of the second semester of the last academic year. Dr. Thamer Alharbi was delegated to be the first vice dean of higher education and scientific research, and Mr. Mohammed Suwaiket secretary of deanship of higher education and scientific research.

The deanship of higher education and scientific research seeks to have a leading role in supporting the progression of scientific research and work to raise the level of awareness of educational processes, by developing an ongoing basis. It aims to also establish new postgraduate programs in physics, mathematics, computer science and medical laboratories in the College of Science, in order to meet the requirements imposed on the scientific development by the institutions of Higher Education in the Kingdom of Saudi Arabia.

The deanship also seeks to develop scientific research projects in postgraduate and distinguished programs in the college according to the advertised scientific research strategies. These programs will involve international cooperation and participation in order to achieve the aspirations and objectives of the university. The deanship will work to encourage faculty members to publish scientific papers and books by providing them with the necessary tools to attract excellence in scientific research.



**Dr. Thamer Alharbi**  
**The vice Dean**  
**of Scientific Research**

## Research Laboratories:

In each department of the College of Science, there are research laboratories that are fully equipped with the latest and most sophisticated equipment and staffed with experienced staff and technicians to accomplish the mission of the College in research. The required Laboratories for the Department of mathematics are the Computer Labs.

**Table 1: List of research laboratories in the college of science**

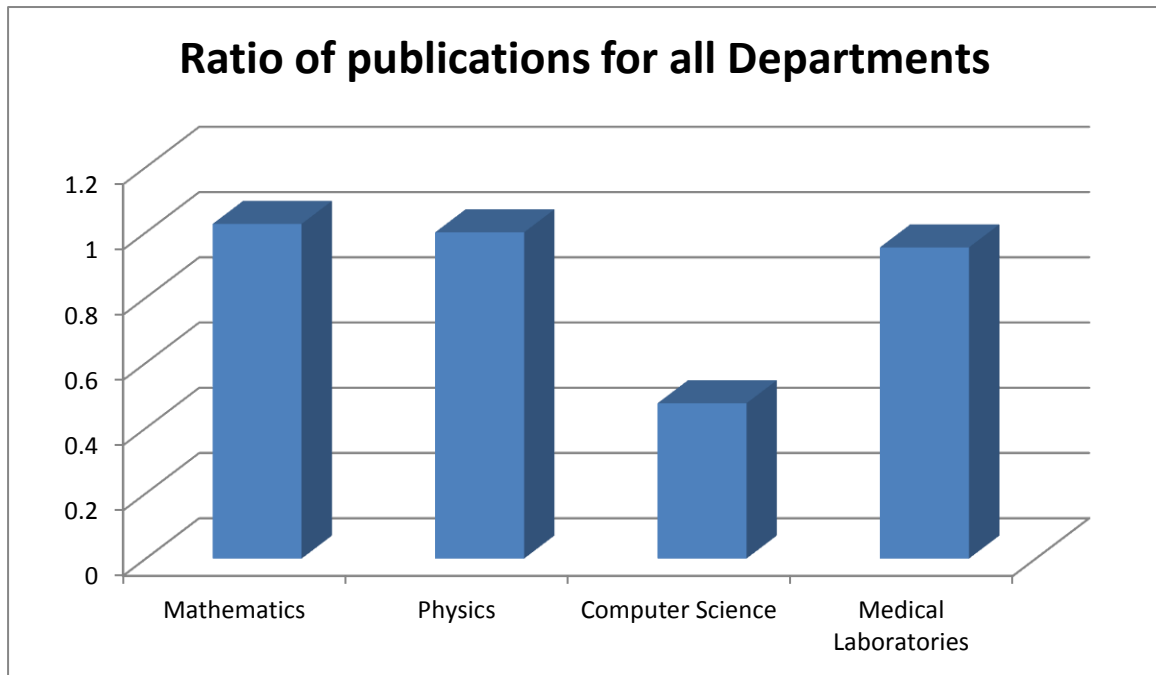
Department	Research Labs
Mathematics	One Computer Lab includes 25 computers
Physics	One Research Lab. Includes research instruments such as; Photolumenscens, Raman spectroscopy, DSC, FTIR, Ultrasonic high power sonifier, Ultrasonic flaw detector, Extruder machine, UV-Vis Spectrophotometer, Three zone furnace, Polarized light optical microscope and Press machine.
Computer Sciences	

MU has signed collaborative agreements with 3 well known scientists in the field of mathematics through “Distinguished Scientist Fellowship Program (DSFP). These professors collaborate with faculty members in the domain of research as well as introducing several seminars in the Department every year.

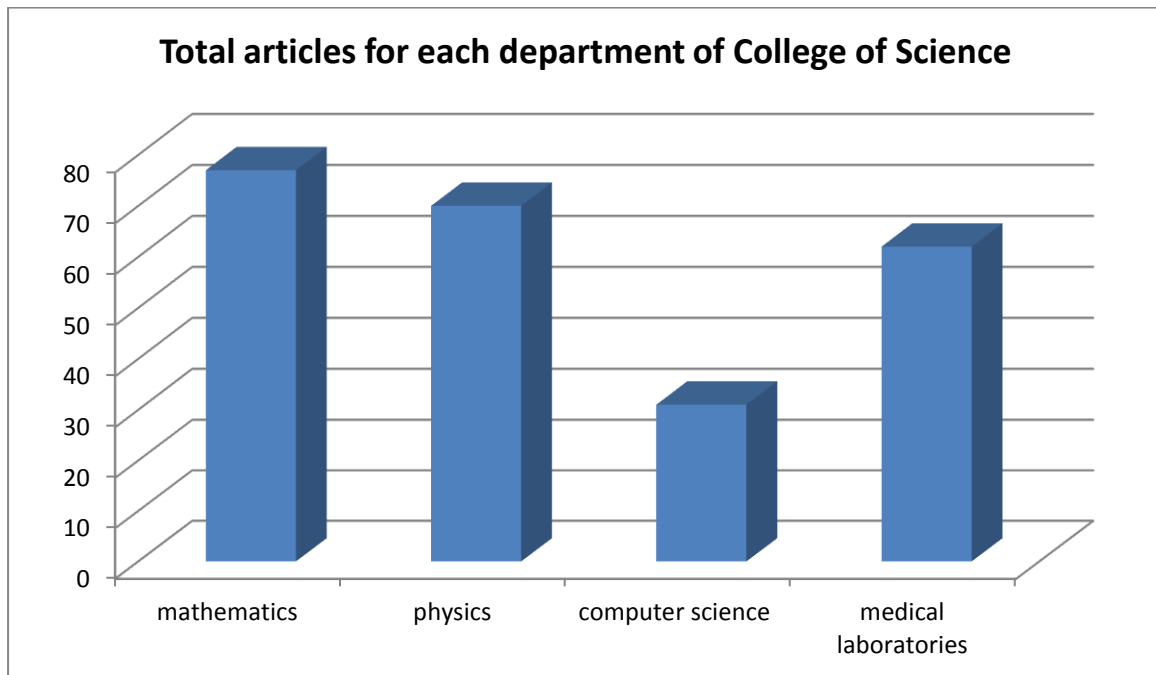
**Table 2: Total articles, number of faculty of Science each department and ration of publications**

Department	Total Articles	No. of Staff members	Ratio
Mathematics	77	15	1.026
Physics	70	14	1.0
Computer Science	31	13	0.476
Medical Laboratories	62	13	0.954

Total articles, number of faculty of Science each department and ration of publications for each faculty in each department in 2008-2013M.



**Figure 1: Ratio of publications for all Departments**



**Figure 2: Total articles for each department of College of Science**

In 1433H, the Faculty of Science and its researchers has great share of the University Awards for excellence in scientific publications. The college gets the first place in the scientific productivity in MU. not the Departments level, the Department of Mathematics came the second.

MU encourages and supports the junior faculty members Saudis only establish and develop their research programs. " Pioneer Program" is one of the initiative

programs supported by Deanship of Scientific Research that aims to generously support the junior faculty members to carry out high-quality research projects evaluated and reviewed by national and international peer reviewers.

Research article states that the priority of the Deanship is to stimulate faculty members to conduct original research and to find ways or channels to encourage individuals and institutions to support and fund their research projects.

University of bundled support for scientific research are very few and not encouraging faculty members to attend international conferences and local and regional as well not bother to open graduate programs for MSc. and PhD. Aldalbl and it provides the Department of Mathematics MSc. program and this program was the acceptance and admired body

Involvement of the students:

The MU. Did not provide support for research projects University for students and did not provide enough time for a decision of the project where the term is not enough to bring out the project remarkable student and library poor in books that serve the project in the Department of Mathematics (as well as the MU does not support research and scientific research evidence failure to approve the masters and doctoral programs under the pretext that it University developing )...

In mathematics department, Five members supported research projects are:

- Dr. Abdel Moneim Mejahid examine single in 1431-1432H,
- Dr. Khaled El-helow+ Abdel Moneim Mejahid and joint research in 1432-1433H, A
- Dr. Abdel Nasser Gareeb, Salah Khafagy, Dr. Mohamad Herzalla in 1433-1434H.

In Physics department, Four members supported research projects are:

- Prof. Dr. Yasser B. Saddeek and Assoc. Prof. Dr. Mohamed S. Gaafar in two search projects at 1431-1432H,
- Assoc. Prof. Dr. Mohamed S. Gaafar in one search project at 1432-1433H,
- Dr. Mohamed H. Abu-Seileek in one search project at 1432-1433H,
- Assoc. Prof. Dr. Mohamed S. Gaafar in one search project at 1433-1434H,

In Computer Scinces department, One members supported research projects are:

- Assoc. Prof. Dr. Yosry A. Azzam in one search project at 1431-1432H,
- Assoc. Prof. Dr. Yosry A. Azzam in two search projects at 1432-1433H,
- Assoc. Prof. Dr. Yosry A. Azzam in one search project at 1433-1434H,

## **Research Facilities and Equipment**

Basic research requirements in the Department are the computer labs, PC in the staff offices, e-databases and e-journals. The Central Library subscribed to a large number of databases and scholarly e-journals which can be accessed through the libraries.

Security policy and arrangements are carried out in coordination with the department of security and safety of the university. In order to accomplish these

objectives, the following safety measures are usually taken in all facilities:

1-Security: the Department of Safety and Security provides security systems and guards to secure the facilities, Cameras are available throughout the facilities with 24 hours monitoring.

2-Fire Safety: Fire evacuation policy and fire drills are practiced in all laboratories,

3-First Aid: First aid kits are available in all laboratories

4-Personal Protective Equipment: Laboratories are equipped with personal

Protective equipment according to the needs in every laboratory such as coats, masks, safety goggles, safety gloves, earmuffs, and helmets.

5-Others: The College also has emergency plans, safety signs, emergency exit signs and laboratory safety manuals. Finally, safety aspects are taken into consideration when purchasing new machinery and equipment.

All equipment's are regularly maintained through a very detailed system supervised by the college represented by scientific workshops. The website of the college of Science: These workshops are Carpentry workshop, mechanics workshop, electronics workshop, glass shop, blacksmith shop, plastic workshop. The electronics workshop is concerned with the maintenance of all electronic devices. A form for service request need should be filled to perform the maintenance for any device.

In general, funding for research is achieved in the Mathematics Department through one of the resources presented in the following Table

**Table 3: Sources for research funding and approximate funding**

Sources	Department	Funding in Riyals	No. of projects Funded	Date
Majmaah University	Mathematics	125000	5	1431-1434H
	Physics	50000	2	1431-1434H
	Computer Science	25000	1	1431-1434H

In spite of all the above, research infrastructure needs more improvement in the College especially in terms of supporting staff. Jobs for researchers, research assistants, and lab technologists have been secured.



# **Curriculum Vitae of Mathematics Department Members**

1434/1435

2013/2014

# Curriculum Vitae of Mathematics Department Members

## Prof. Dr. Adel Mohamed Zaki



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Majmaahh university

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### Research Interests:

Functional Analysis  
Algebra

### Qualification (Career and University Education)

B. Sc. Degree (Mathematics)	Grade " Very Good ", Faculty of Science ", Cairo University
MS. C. Degree (Mathematics)	Aswan Faculty of Science ,Assuit University
PhD Degree (Mathematics )	Department of Mathematics, Aberdeen University, Scotland U.K

### Experience (Teaching Experience)

1975-1979	Demonstrator at Department of Mathematics, Aswan faculty of science, Assuit University
1979-1987	Assistant Lecturer at Department of Mathematics, Aswan faculty of science, Assuit University
1987-1995	Lecture at Department of Mathematics, Aswan faculty of science, South Valley University
1995-2008	Assistant Professor at Department of Mathematics , Faculty of Science, Helwan university Professor and Dean of The Canadian International College (CIC)
2008-2012	Professor at the Department of Mathematics (AL Zulfi ) Al –Majmaahh University
2012 until now	

### Short Visits

1982-1987	Doing the Ph.D. degree at Department of Mathematics , Aberdeen University, Scotland, UK
Scientific mission	

### Publications

1)-N. Fared and Adel M. Zaki: "A note on compact operators in  $l^p$  Spaces" Jour. of Fac. of Educ., Ain Shams Univ., N.9, 13-19

- (1985).
- 2) - Adel M. Zaki: "Simplicial faces in pure and factorial state spaces of operator algebras, Publ. Math Debrecen 41/1-2, 23 -33, (1992).
- 3) - Adel M. Zaki: Primal ideals and tensor product of  $C^*$  - algebras, jour. Math. Phy. Sci. Vol.24. , 42 -53.
- 4) - R.J. Archbold and Adel M. Zaki: Limits of pure states II, Proceeding of the Edin. Math. Soc., 227-231, (1992).
- 5) - Adel M. Zaki: On the cyclic factorial representation space of  $C^*$  - Algebras, Bull of the Inst. Of Math., Academia Sinica, Vol.21, No. 1, 73-79, (March 1993).
- 6)- Adel M. Zaki: The pure state space of certain  $C^*$  - algebras, Bull of the Calc. Math. Soc., (1994).
- 7) - Adel M. Zaki: On quasi state space of prime  $C^*$ - algebras, jour. Math .Phy. Sci. Vol.25, No. 4, 427-430, (1991).
- 8) - Adel M. Zaki: The pure state space of certain  $C^*$  - algebras II, Far East J. of Math. Sci. 1(2), (1993).
- 9)- Adel M. Zaki: On the spaces  $\text{Rep}(A)$ ,  $\text{Irr}(A)$  and  $\text{Fac}(A)$ , Bull. Fac. Sci., Assiut Univ., 21(1-c), 7-12, (1992).
- 10)- Adel M. Zaki: On cyclic representation and state spaces of  $C^*$ -algebras. Bull. Fac. Sci., Assiut Univ., (1994).
- 11)- Adel M. Zaki: On pure functions on  $C^*$ -algebras, Banyan Math. Journal. Vol.1, (1994).
- 12)- Adel M. Zaki: Abundance of pure States in certain  $C^*$ -algebras, Far East J.Math.Sci.,Part II,173-177 (1998).
- 13)- Adel M .Zaki and Zeinab Abdel-Kader: A note on primal ideals in the product  $C^*$ -Algebra, Far. East J. Math. Sci. (1998).
- 14)- Zeinab M Abd Elkader and Adel M Zaki "The pure state space of certain  $C^*$ - algebras III", Journal .of the Egy . Math. Soc.9 (2), 143-149(2001).
- 15)- Adel M. Zaki , Zeinab M Abd Elkader and Nadia A. Qotb, "A note on the extension of states of  $C^*$ -algebras, to be published in Journal. of the Egy . Math. Soc.
- 16)- Adel M. Zaki , Zeinab M Abd Elkader and A. M. Sayed, "Some generalized inequalities for the schatten p-norm" to be published in the proceeding of mathematical and physical society of Egypt.
- 17)- Adel M .Zaki, A note on the tensor product of primal ideals of  $C^*$ -algebras, to be published in the proceeding of mathematical and physical society of Egypt.
- 18)- Adel M .Zaki, A note on generalized slice maps and primal ideals of  $C^*$ -algebras, to be published in the proceeding of mathematical and physical society of Egypt.
- 19)- Adel M. Zaki, Zeinab M.Abd Elkader and Hanaa M. Abdel Rahman," On associated Ideal sub- modules", to be published in Al-Azhar University Engineering Journal (AUEJ).
- 20)-Adel M.Zaki,"Ideal structure and pure state spaces of some operator algebras" to be published in the journal of applied functional analysis (JAFA).
- 21)- Zeinab M .Abd Elkader, Adel M. Zaki and Reham M. Ismael (Derivations of tensor product of finite number of simple  $C^*$ -algebras. to be published in the 22<sup>nd</sup> international conference on Topology and its Applications, Helwan,7-8 July (2008).
- 22)-Zeinab M. Abdel Kader, Adel M. Zaki and Reham M. Ismail "A note on linear 0 derivations on  $JB^*$  Triples " Journal of Egy. Math .Soc. (2010).

## Teaching

Calculus 1,2,3 and 4	Aswan Faculty of Science
Real Analysis	Helwan Faculty of Science
Functional Analysis	Helwan Faculty of Science
Abstract Algebras	Helwan Faculty of Science

Topology	Helwan Faculty of Science
Differential Equations	Helwan Faculty of Science
Partial Differential Equations	<b>Canadian International College</b>

#### **Academic Positions:**

- 1) Working as a Demonstrator in the Department of Mathematics (Aswan Faculty of Science) Assuit University from 16/7/1975 to 29/4/1979.
- 2) Working as an Assistant Lecturer in the Mathematics Department (Aswan Faculty of Science) Assuit University from 30/4/1979 to 29/6/1987.
- 3) Working as a Lecturer in the Department of Mathematics (Aswan Faculty of Science) Assuit University from 30/6/1987 to 20/9/1989.
- 4) Affiliated to work as a Lecturer in the Department of Mathematics (Abha Teachers College) in Saudi Arabia from 21/9/1989 to 31/8/1994.
- 5) Working as a Lecturer in the Mathematics Department (Aswan Faculty of Science) South Valley University from 1/9/1994 to 24/2/1995.
- 6) Working as an Assistant Professor in the Mathematics Department (Aswan Faculty of Science) South Valley University from 25/2/1995 to 15/7/1995.
- 7) Working as an Assistant Professor in the Department of Mathematics (Helwan University) from 16/7/1995 to 7/9/1998.
- 8) Working as a Visiting Professor in the Faculty of Science (United Arab Emirates University) from 8/9/1998 to 20/1/1999.
- 9) Affiliated to work as an assistant Professor in the Faculty of Education (6<sup>th</sup> October University) from 8/11/2001 to 31/8/2004.
- 10) Working as the Director of the Applied Sciences Department in the Canadian international college (CIC)-Cairo from 1/9/2004 to 20/5/2004.
- 11) Working as the Academic Vice Dean in the Canadian international college (CIC)-Cairo from 21/5/2005 to 25/1/2006.
- 12) Acting as the Dean of the Canadian international college (CIC)-Cairo from 26/1/2006 to 20/8/2007.
- 13) Working as the Academic consultant of the Canadian International College(CIC)-Cairo from 21/8/2007 to the current date.
- 14) Working as a Full Professor in the Department of Mathematics, Faculty of Science ,Helwan University from 20<sup>th</sup> of April 2008 the 31<sup>st</sup> of August 2008 .
- 15) Working as a Full Professor in the Department of Basic Science ,Canadian International College (CIC)-Cairo from 1<sup>st</sup> of September 2008 to 31<sup>st</sup> of August 2011.
- 16) Working as a Full Professor in Al Zulfi Faculty of Science ,Al Majmaahh University from 14 /11/2012 until now.

#### **Administrative Experience:**

- 1) Acting as the Head of the Department of Science in the Faculty of Education (6 October University) from 8/11/2001 to 31/1/2001.
- 2) Acting as the Vice Dean of the Faculty of Education from 1/2/2002 to 1/11/2002.
- 3) Working as the Head of the Basic and Applied Sciences Department in the Canadian International College (CIC) from 1/9/2004 until now.
- 4) Working as the Canadian International College (CIC) Vice Dean from 21/2/2006 until 31/8/2008.
- 5) Working as the Canadian International College (CIC) Dean from 1/9/2008 until 31/8/2011.
- 6) Working as the Canadian International College (CIC) Vice President for Academic Affairs and new extensions and acting as the Engineering Head of the Department (6<sup>th</sup> of October Branch ) from 1/9/2011 until 13/11/2012.
- 7) Working as a Full Professor in the Department of Mathematics (El Zulfi) Al- Majmaahh University (KSA) from 14/11/2012 until now.
- 8) Working as the Head of the Bachelor of Science program Supervising Committee, in the Mathematics Department in (Al-Zulfi ) Faculty of Science ,Al Majmaah University starting from 2/1 /2013.
- 9) Acting as a member in the Scientific Research and Post Graduate Studies , in the Department of Mathematics in (Al-zulfi) faculty of Science ,Al Majmaah University starting from 2/1/2013.
- 10) Working as the Head of the Complains and Suggestions committee, in the department of mathematics in (Al-Zulfi ) faculty of Science ,Al Majmaah University starting from 18/8/2013.
- 11) Acting as a member in the Instructors committee ,in the Department of mathematics in (Al-Zulfi ),faculty of Science ,Al- Majmaahh University starting from 18/8/2013.
- 12) Acting as a member of the Editorial Board of Al Majmaahh University Journal of Engineering and applied Sciences starting from the 3<sup>rd</sup> of November 2013.
- 13) Acting as a member of Al-Majmaahh science research unit starting from 1/12/2013.

## Prof. Dr. Mohamed Abdel-Hakim Ahmed Ismail



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### Research Interests:

Fluid Mechanics

Hydro-Dynamic

Heat and Mass Transfer

Micro polar fluids

Porous Medium

### Qualification (Career and University Education)

1981-1982	B. Sc. Degree (Mathematics)	Grade "very good ", Faculty of science, Qena, Assuit University.
1985-1986	MS. C. Degree (Mathematics)	Faculty of science, Aswan, Assuit University.
1991-1992	PhD Degree (Mathematics )	Faculty of science, Aswan, Assuit University

### Experience (Teaching Experience)

1983-1986	Demonstrator at Department of Mathematics, faculty of science, Aswan, Assuit University
1986-1991	Assistant Lecturer at Department of Mathematics, faculty of science, Aswan, Assuit University
1992-2001	Lecture at Department of Mathematics, faculty of science, Aswan, Assuit University
2001-2008	Assistant Professor at Department of Mathematics , Faculty of Science, Aswan, South Valley university,
<b>2008-2012</b>	- Graduate Studies, Faculty of Science in Aswan. - Quality Committee, Faculty of Science in Aswan - Development Committee to list the Faculty of Science in Aswan - Deputy Coordinator of the program quality math science sycophantic
<b>2012-</b>	- Commission for improving the math program at the Faculty of Science Zulfi - Committee on Graduate Studies, Faculty of Science Zulfi - Commission characterization of the graduate program at the Faculty of Science Zulfi - Committee for Scientific Research and the relationship with the community, Faculty of Science Zulfi - The Commission on Security and Safety Program Mathematics, Faculty of Science Zulfi
2008-2012	Professor Dr. at Department of Mathematics, Faculty of Science, Aswan, South Valley University
2008-2012	Head of Department of Mathematics, Faculty of Science, Aswan, South Valley University
2010-2012	Project manager for the development of Computer Science prequalified for Quality and Accreditation
<b>2012-</b>	Professor in Department of Mathematic, Faculty of Science, Al-Zulfi, Majmaahh University.
<b>2012-</b>	A Refree professor in the permanent central committee for evaluating the scientific work to promotion to the degree of (Associate and full professors) in the field of pure and applied mathematics.

### International Experience

1992-	- Cimpa Schools (France) in Pure and Applied Mathematics 5-28 /1/1991 Mathematics Department, Faculty of Science, Aswan, Assuit University -Egyptian Mathematical Society -Egyptian Physical Society. -Money conferences inside Egypt.
1992-2012	Supervisor for Ten PhD. Degree and nineteen MSc. Degree.

## Publication

- M. A. EL-Hakiem, 1998. "Effects of a transverse magnetic field on natural convection with temperature dependent viscosity in micropolar fluids", *Int. J. Applied Mech. Eng.*, Vol. 3, No. 2, pp. 287-304.
- M. A. EL-Hakiem, 1999. "Effect of a transverse magnetic field on natural convection boundary layer flow of a micropolar fluids in porous medium", *Int. J. Applied Mech. Eng.*, Vol. 4, No. 3, pp. 509-528.
- M. A. EL-Hakiem, 2000. "Viscous dissipation effects on MHD free convection flow over a non-isothermal surface in a micropolar fluid", *Int. Comm. Heat Mass Transfer*, vol. 27, No. 4, pp. 581-590.
- M. A. EL-Hakiem, 2000. "MHD oscillatory flow on free convection radiation through a porous medium with constant suction velocity" *Magnetism and Magnetic Materials*, vol. 220, pp. 271-276.
- M. A. EL-Hakiem, (2000) "Thermal dispersion effects on combined convection in non-Newtonian fluids along a non-isothermal vertical plate in a porous medium" *Transport in Porous Media* vol. 15, pp. 1-12.
- M. A. EL-Hakiem, (2000) "Thermal dispersion effects on combined convection in non-Newtonian fluids along a non-isothermal vertical plate in a porous medium" *Transport in Porous Media* vol. 15, pp. 1-12.
- M. A. EL-Hakiem, (1999) "Natural convection in a micropolar fluid with internal heat generation and viscous dissipation", *Applied Mechanics and Engineering*, vol. 4, pp. 789-799.
- M. A. EL-Hakiem and M. F. El-Amin, (1999) "MHD free convection and mass transfer flow in micropolar fluid through a porous medium with constant suction" 6<sup>th</sup> Conference on Theoretical and Applied Mechanics, March 3<sup>RD</sup> and 4<sup>th</sup> Cairo-EGYPT
- M. A. EL-Hakiem, (2000) "Radiative effects on non-Darcy free convection over a permeable horizontal surface in a porous medium", *Applied Mechanics and Engineering*, vol. 5, No. 4, pp. 213-217.
- M. A. EL-Hakiem and M. F. El-Amin, (2000) "Thermal radiation effect on non-Darcy natural convection with lateral mass transfer", *Heat Mass Transfer*, vol. , pp.
- A.A. Mohammadein, M. A. EL-Hakiem and R.S.R. Gorla, (1996) "Effect of transfer magnetic field on natural convection in micropolar fluids", *Applied Mechanics and Engineering*, vol. 1, No.,3, pp. 337-353.
- M.A. EL-Hakiem, S.M.M. EL-Kabeir, and R.S.R. Gorla, (2000) "Natural convection from combined thermal and mass diffusion buoyancy boundary effects in micropolar fluids" *Int. Journal of Fluid Mechanics Research*, vol. 27, No. 1, pp. 1-20.
- M.A. Mansour, M.A. EL-Hakiem and S.M.M. EL-Kabeir, (2000) "Heat and mass transfer in magnetohydrodynamic flow of micropolar fluid on a circular cylinder with uniform heat and mass flux" *Magnetism and Magnetic Material*, vol.220, pp. 259-270.
- M. A. EL-Hakiem, (1997) "Mixed convection non-Newtonian fluid along an isothermal vertical cylinder in a porous medium", *Transport in Porous Media*, vol. 28, pp. 307-317.
- M. A. EL-Hakiem, (1997) "Natural convection flow of a micropolar fluids in a porous medium", *Applied Mechanics and Engineering*, vol. 2, No. 2, pp.187-204
- A.A. Mohammadein, S.M.M. EL-Kabeir, M.A. EL-Hakiem and R.S.R. Gorla, (1998) "Hiemenz flow of a micropolar fluid in hydromagnetics", *Applied Mechanics and Engineering*, vol. 3, No. 3, pp. 367-376.
- M.A. EL-Hakiem, A.A. Mohammadein, S.M.M. EL-Kabeir, and R.S.R. Gorla, "Joule heating effects on magnetohydrodynamic free convection flow of a micropolar fluid", *Int. Comm. Heat Mass Transfer*, vol. 26, No. 2, pp. 219-227
- A.A. Mohammadein, M.A. EL-Hakiem, M.A. Mansour, M. Modather and R.S.R. Gorla, (1999) "Viscous and Joule heating effects on MHD natural convection in a micropolar fluid on horizontal, inclined and vertical plates", *Journal of MHD, Plasma and Space Research*, vol 8, No. 2, pp. 20-33.
- M.A. EL-Hakiem, A.A. Mohammadein, M.A. Mansour, S.M.M. EL-Kabeir, and R.S.R. Gorla, (1999) "Heat transfer from stretching surface in a micropolar fluid", *Applied Mechanics and Engineering*, vol. 4, No. 1, pp. 25-34.
- M.A. EL-Hakiem, A.A. Mohammadein, M.A. Mansour, R.S.R. Gorla, and M. Modather (1999) "MHD mixed convection in a micropolar fluid over a horizontal plate", *Journal of MHD, Plasma and Space Research*, vol. 9, No. 1, pp. 65-88.
- M. A. EL-Hakiem and M. F. EL-Amin, (2001), "Mass Transfer effects on the non-Newtonian fluids past a vertical plate embedded in porous medium with non-uniform surface heat flux", *Heat and Mass Transfer*, vol. 37, pp. 293-297.
- 1- M. A. EL-Hakiem, (2004) "Natural convection in a micropolar fluid with thermal dispersion and internal heat generation", *Int. Comm. Heat Mass Transfer*, vol. 31, No. 8, pp. 1177-1186.
- M. A. EL-Hakiem, (2008) "Radiation effects on hydromagnetic free convective and mass transfer flow of a gas past a circular cylinder with uniform heat and mass flux" *Int. J. of Numer. Meth. For Heat & Fluid Flow*, Accepted in January (2008).
- M. A. EL-Hakiem, (2007) "Radiative effects on non-Darcy natural convection from a heated vertical plate in saturated porous media with mass transfer for non-Newtonian fluid", *Journal of Porous Media*, vol. 12(1) (2008).
- M. A. EL-Hakiem, and A.M. Rashad, (2007) "Effect of radiation on free convection from a vertical cylinder embedded in a fluid-saturated porous medium with a temperature-dependent viscosity", *Journal of Porous Media*, vol. 10(2), pp. 209-218
- M. F. El-Amin, M. A. EL-Hakiem M. A. Mansour, (2004) "Combined effect of magnetic field and lateral mass transfer on non-Darcy axisymmetric free convection in a power-law fluid saturated porous medium", *Journal of Porous Media*, vol. 7, No. 1 pp. 65-71.

- M. A. EL-Hakim, and S. M. M. EL-Kabeir and A.M. Rashad, (2007) "Combined heat and mass transfer on non-Darcy natural convection in a fluid saturated porous medium with thermophoresis", *Int. J. Applied Mechanics and Engineering*, vol. 12, No. 1, pp. 9-18.
- M. A. EL-Hakim, S. M. M. EL-Kabeir and A.M. Rashad, (2007) "Group method analysis for the effect of radiation on MHD coupled heat and mass transfer natural convection flow for water vapor over a vertical cone through porous medium", *Int. J. of Math and Mech.*, vol. 3, No. 2, pp. 35-53.
- S.M.M. EL-Kabeir, M. A. EL-Hakim and A.M. Rashad, (In Press) "Group method analysis of combined heat and mass transfer by MHD non-Darcy non-Newtonian natural convection adjacent to horizontal cylinder in a saturated porous medium", *Applied Mathematical Modelling*, Online 29 September 2007..
- S.M.M. EL-Kabeir, M.A. EL-Hakim and A.M. Rashad, (2008) "Lie group analysis of unsteady MHD three dimensional by natural convection from an inclined stretching surface saturated porous medium", *Journal of Computational and Applied Mathematics*, vol. 213, No. 2, pp. 582-603.
- M. A. EL-Hakim and M. Modather, (2006) "The effect of variable viscosity on MHD natural convection in micropolar fluids", *Applied Mechanics and Engineering* vol. 11, No. 2, pp. 301-320.
- S.M.M. EL-Kabeir, M.A. EL-Hakim and A.M. Rashad, (2007) "Natural convection from a permeable sphere embedded in a variable porosity porous medium due to thermal dispersion", *Nonlinear Analysis: Modelling and Control*, vol. 12, No. 3, pp. 345-357
- M. A. EL-Hakim M. F. EL-Amin and M. A. Mansour (2003) "Effects of viscous dissipation on a power-law fluid over plate embedded in porous medium", *Heat and Mass Transfer*, vol. 39, pp. 807-813.
- A. M. Rashad, M.A. EL-Hakim and S. M. M. EL-Kabeir (2007) "Lie group analysis of hydromagnetic flow and heat transfer by non-Darcy natural convection over a surface stretching in porous medium with radiation effect", *Int. J. of Appl. Math and Mech.*, vol. 3, No. 2, pp.54-70.
- M. A. EL-Hakim, M. F. EL-Amin and R. S. R. Gorla (2006) "MHD free convection of a large Prandtl number liquid over a non-isothermal two-dimensional body" *Int. J. of Fluid Mechanics Research*, vol. 33, pp. 153-167.
- M. A. EL-Hakim, A. M. Rashad, M.M.M. Abdou, (2011). Natural convection boundary layer of non-Newtonian fluid about a permeable vertical cone embedded in porous medium saturated with a nanofluid *Computer & Mathematics with applications*, vol. 62, issue 8, pp. 3140-3151, Oct.
- M. A. EL-Hakim, (2014). Heat Transfer from Moving Surfaces in a Micro polar Fluid with Internal Heat Generation. *Journal of Engineering and Applied Science*, vol. 1, Bart 1 no. 1 pp. 30-36.
- M. A. EL-Hakim, (2014). Effect of Radiation and Double Dispersion on Mixed Convection Heat and Mass Transfer in Non-Darcy Porous Medium., *Journal of Engineering and Technology* In Press

## Teaching

Fluid Mechanics	Math421	Aswan Science	Assuit University
Analytic Mechanics	Math301	Aswan Science	Egypt
Statistical Mechanics	Math453	Aswan Science	Egypt
Dynamics	Math109	Aswan Science	Egypt
Static	Math 120	Aswan Science	Egypt
Quantum Mechanics	Math. 421	Aswan Science	Egypt
Differential Equation	Math	Aswan Science	Egypt
Partial Differential Equation	Math	Aswan Science	Egypt
Geometry	Math	Aswan Engineering	Egypt
Linear Algebra	Math. 205	Aswan Science	Egypt
Special Function	Phys. (340)	Aswan Science	Egypt
Numerical Analysis		Aswan power engineering	Egypt
Mathematical Methods	Math.(310)	Aswan Science	Egypt
Mechanical of Waves	Math. (321)	Aswan Science	Egypt
Differential and Integral	Math.(101)	Science Al-Zulfi	Kingdom, Saudi Arabia
Differential equations	Math.(204)	Science Al-Zulfi	Kingdom, Saudi Arabia
Geometry	Math.(121)	Science Al-Zulfi	Kingdom, Saudi Arabia
Calculus of Vectors	Math.(204+202)	Science Al-Zulfi	Kingdom, Saudi Arabia

Subjects in Appl. Mechanics	Math.(411+370)	Science Al-Zulfi	Kingdom, Saudi Arabia
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And many other topics.

## Prof. Dr. Hedi Ben Messaoud



Professor  
Mathematics Department  
Faculty of Science, Zulfi

Majmaahh university

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### Research Interests:

**Complex Analysis**, psh functions, analytic sets, currents and slicing theory.

### Language Skills

Arabic, English , French

### Qualification (Career and University Education)

1974-1978	B. Sc. Degree (Mathematics)	Grade "very good ", Presidential prize. High normal School, Tunis-Manar University.
1978-1979	Master (Mathematics:	Paris VI University (France). Complex Analysis)
1979-1982	PhD Degree (Mathematics :	ParisVI University. <u>Intermediate current associated to a positive closed current)</u>
1982- 1996	State' s Dotorat	<u>Monge-Ampere Operator and extension of positive d-closed current.</u> <u>Tunis-Manar University -- Fourier Institute (France)</u>

### Career

2011-	Professor doctor at Department of Mathematics , Faculty of Science, Majmaahh university , Saudi Arabia
2001-2005	Professor (First class) at Department of Mathematics , Faculty of Science, Sfax university, Tunisia
2005-2006	Professor doctor at Department of Mathematics , Faculty of Science, KingFaycel university ,Alhasa, Saudi Arabia
2001-2005	Professor (First class) at Department of Mathematics , Faculty of Science, Sfax university, Tunisia
	Professor (Second class) at Department of Mathematics , Faculty of Science, Sfax university, Tunisia
1996-2001	Assistant Professor at Department of Mathematics , Faculty of Science, Bizerte university, Tunisia
1986-1996	Assistant at Department of Mathematics , Faculty of Science, Bizerte university, Tunisia
1982- 1986	

### Short Visits

	Invited professor (5/1992, 6/1994,7/1995, 1/1996,7/1996, 10/99, 7/2000, 12/2004)Fourier Institute . France
11/1995	Invited professor at Mathematics Department , Poitier university (France)
10/2002	Invited professor at Mathematics Department , Marseille university (France)



## Publications

M. Toujani H. Ben Messaoud.—Prolongement d'un courant négatifsh avec conditions sur les tranches. Cras Paris 2005  
M. Toujani et H. Ben Messaoud.—Prolongement et contrôle d'un courant négatifsf  
pares tranches, Afr. Diasp. J. of Mathematics, Washington , 2004.  
H. Ben Messaoud et HassineElmir.—Operaeur de Monge-Ampere et tranchage des courants positifsfermes, J. of Geometric  
Analysis (USA), vol. 10nb 1 (2000).  
H. Ben Messaoud.—Tranche et formule de tranchagegeneralisee, colloque SMT, Mahdia mars 98.  
H. Ben Messaoud .—New slicing formula , International congress of Mathematics, Berlin, August 1998.  
H. Ben Messaoud et HassineElmir.—Tranchage et extension des courants positifsfermes, Math.Annalen(Germany), 307, 1997.  
H. Ben Messaoud et HassineElmir.—Operateur de Monge-Ampere et formule de  
tranchage pour un courant positifferme, CRAS Paris 1995, t. 321, serieI, n03.  
H. Ben Messaoud.—Tranches et nombres de Lelong, colloque S.M.T, n0 3, Hammamet (1995).  
H. Ben Messaoud et HassineElmir.—Tranchagedans le polydisque, colloque SMT,n0 2, Monastir (1994).  
H. Ben Messaoud et HassineElmir.—Tranches et prolongement des courants positifsfermes, CRAS Paris 1993, t 316, serieI.  
H. Ben Messaoud.—Courants intermediairesassocies `a un courant positifferme,  
SeminaireLelong-Skoda, Lectures Notes in Math. (Springer) no 1028, p. 41--68.

## Supervisor

2006-2012 phd thesis of Hedikhediri (defended 22/1/2012), Monastir  
2007-2010 phd thesis NouredineGhiloufi (defended 10/2/2010), Sfax  
2003-2007 phd thesis of MoncefToujani (defended 11/2007), Monastir

## Teaching Experience

Complex Analysis	Math484	Zulfi Science	Majmaahh University
Derivation and Integration in sevrals variables	Math 203	Zulfi Science	Majmaahh University
Topology	Math	Monastir Science	Monastir
Mathematical Methods	Math	Zulfi Science	Majmaahh University
Linear algebra I	Math	SfaxScience	Sfax University
Linear algebra II	Math	SfaxScience	Sfax University
Analysis I, II	Math	SfaxScience	Sfax University
Probability and Stat.	Math	Sfax Science	Sfax University
Numerical analysis	Math	SfaxScience	Sfax University
Non Euclidian Geometry	Math	ALhasa Science	King Faycel University
Doctoral course in complex Analy.	MATH	Monstir Science	Monastir University

## Conferences

Egypt France Mathematics Conference	France Embassy	2010
Conference on Topology and its Application	Tanta	2010
Fifth Annual Conference	Cairo	2007

## Reviewer

Reviewer of the Phd thesis of SouadKhemiri (2000); University of Monastir.  
Reviewer of the Phd thesis of KhalifaDabbek (2001); University of Monastir  
Reviewer of the Phd thesis of FethiHagui (2002); University of Monastir.  
Reviewer of the "Habilitation" of Nabil Ourimi (2004), University of Bizerte  
Reviewer of the "Habilitation" of SaoussenKallel (2004), University of Tunis  
Reviewer of the "Habilitation" of KhalifaDabbek (May 2009), Univ. of Monastir  
Reviewer of the "Habilitation" of FethiHagui ( June 2010), University of Monastir  
Member of the phd jury of Maryam Toulbi (February 2013), King Saud University

## Practical Skills

Latex Writing

## Dr. Rabah Kellil



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### Research Interests:

Semigroups, semirings, ternary operation, Green's relations, Lattices,

Morphic groups

Coding theory, cryptography

### Language Skills

French Writing; speaking and reading Excellent

Arabic Writing; speaking and reading Excellent

English Writing Excellent; speaking good and reading Excellent

### Qualification (Career and University Education)

1977-1981	B. Sc. Degree (Mathematics)	Constantine University Algeria
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1981-1982	MS. C. Degree (Mathematics)	Nancy college of Sciences, Nancy University, France
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1982-1984	PhD Degree (Mathematics)	Nancy college of Sciences, Nancy University, France
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### Career

1982-1984	Professor of mathematics secondary schools Nancy France
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1984-1985	Assistant Professor University of Metz France
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1984-1988	Researcher attached to CNRS Unit at Metz France
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1988-1990	Assistant Professor Annaba University Algeria
-----------	---

1990-2010	Assistant Professor Monastir University Tunisia
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Since 2010	Assistant Professor Majmaahh University KSA
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### Short Visits

2003-2004	Associated researcher in PROTHEO Project, INRIA Nancy France
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1995(1 month)	University of FES Morocco Summer school in commutative Algebra
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1 to 2 weeks	Many short visits Grenoble France, Nancy France, Fes Morocco, Annaba Algeria, K.S university Riyadh, CIRM ( International Center of Mathematical Research) France
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### Publication(s)

1- Author: Rabah Kellil  
 Title Some Proprieties on Morphic Groups.  
 Pure Mathematical Sciences, Vol. 2, 2013, no. 2, 55 – 68, Publisher Hikari Ltd.

2- Author: Rabah Kellil  
 EXTERNAL APPROACH OF IDEALS IN SUBTRACTION ALGEBRAS  
 Asian Journal of Current Engineering and Maths . 2: 2 , March-April 2013, p115-117.

3- Author: Rabah Kellil  
 Some Aspects of Derivation in Ternary Semirings.  
 International Journal of Multidisciplinary Sciences and Engineering, Volume 4, Issue 5, June 2013.

4- Author: Rabah Kellil  
 GREEN'S RELATIONS ON TERNARY SEMIGROUPS.  
 J. Semigroup Theory Appl. 2013, 2013:6

5- Author: Rabah Kellil  
 ON INVERSES OF LEFT ALMOST SEMIRINGS AND STRONG LEFT ALMOST SEMIRING  
 Journal of Mathematical Sciences: Advances and Applications, issue April 2014

## Teaching Experience

MTPH001 and MTPH002 MAT 130+ 231, MAT 444, MAT 203, MAT 343, MAT 237 Algebra for the first, the second, the third and the fourth year	Since 2010 1984-1985 1988-1990 1990-2010	courses given in English BcS Mathematics courses given in French	College of Sciences at Zulfi Majmaahh University University of Metz France University of Annaba Algeria University of Monastir Tunisia
Analysis for the first and second year in MA cycle (mathematics).	1984-1985 1988-1990 1990-2010	BcS Mathematics courses given in French	University of Metz France University of Annaba Algeria University of Monastir Tunisia
Measure and integration in third year in MA cycle (mathematics).	3 times between 1990-2010	BcS Mathematics courses given in French	University of Monastir Tunisia
Complex analysis in third year in MA cycle (mathematics).	3 times between 1990-2010	BcS Mathematics courses given in French	University of Monastir Tunisia
Topology in third year in MA cycle (mathematics).	2 times between 1990-2010	BcS Mathematics courses given in French	University of Monastir Tunisia
Differential Calculus	2 times between 1990-2010	BcS Mathematics courses given in French	University of Monastir Tunisia

Conferences				
Annual colloquium of SMT	colloquium	3 days	Hammamet 3 times	SMT
Annual colloquium of SMT	colloquium	3 days	Mahdia 2 times	SMT
Annual colloquium of SMT	colloquium	3 days	Sousse 2 times	SMT
Annual colloquium of SMT	colloquium	3 days	Monastir 2 times	SMT
Summer School on Invariants Theory	Summer school	15 days	Monastir 1997	CIMPA
Summer school on commutative Algebra	Summer school	15 days	Fez Morocco	University of Fez
Summer School on Commutative Algebra	Summer school	15 days	Marseille France	CIRM France
Summer School on Dynamical Systems and Complex Analysis	Summer school	15 days	Marseille France	CIRM France
Summer School on Current Theory and Complex Analysis	Summer school	1 MONTH	Mahdia	University of Grenoble France and University of Monastir
Summer School on Coding and Cryptography	Summer school	1 MONTH	Mahdia	INRIA Roquencourt France
International colloquium of Mathematics KS university Riyadh 2012	Colloquium	2 days	Riyadh	KS University KSA

## Pedagogic Production

With Dr Pr Ferdaous kellil : Algebra and Arithmetic cours et exercices, in French Tunisia 2007

With Dr Pr Ferdaous kellil : Course one topology, in French Tunisia 2008

## Practical Skills

Programming skills: Fortran, Basic, Pascal, C++

Latex, Word,

Advising Member in review of many mathematics program both in France and Tunisia.

Conception of the Mathematics Programs of Higher School of Sciences and technology Hammam Sousse Tunisia 2007

## Dr. Salah Abdel-Naby Elgharieb Khafagy



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Mathematics Department  
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### Research Interests:

Functional Analysis

### Language Skills

Arabic, English

### Qualification (Career and University Education)

1991-1995	B. Sc. Degree (Mathematics)	with grade very good, Faculty of Science, Al-Azhar University 1995.
1997-2002	MS. C. Degree (Mathematics)	Faculty of Science, Al-Azhar University, 2002.
2004-2007	PhD Degree (Mathematics )	Faculty of Science, Al-Azhar University, 2007.

### Career

2013-Now	Assistant Professor, Mathematics Department, Faculty of Science, Al-Azhar University, Egypt.
2010-Now	Assistant Professor, Mathematics Department, Faculty of Science, Majmaahh University, Saudia Arabia
2007-2013	Lecturer at Mathematics Department, faculty of science, Al-Azhar University, Egypy.
2002-2007	Assistant Lecturer at Mathematics Department, Faculty of Science, Al-Azhar University, Egypt.
1996-2002	Demonstrator at Mathematics Department, Faculty of Science, Al-Azhar University, Egypt.

### Short Visits

2009	The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.
------	--

### Publication

Khafagy, S. and Khalil, A., On the Accuracy of Pade Approximants in Calculating The Energy Eigenvalues and Phase Shifts via the Potential Model of Schrodinger Equation, Journal of the Egypt. Math. Soc., Vol. 13(2), (2005), pp. 201-214.

Khafagy, A. and Serag, H., Maximum Principle and Existence of Positive Solutions for Nonlinear Systems Involving Degenerated p-Laplacian Operators, Electronic Journal of Differential Equations, Vol. 2007 (2007), No. 66, PP. 1-14.

Serag, H. and Khafagy, S., Existence of Weak Solutions for  $n \times n$  Nonlinear Systems Involving Different Degenerated p-Laplacian Operators, New Zealand Journal of Mathematics, Vol. 38 (2008), pp. 75-86.

Khafagy, S. and Serag, H., Existence of Weak Solutions for Nonlinear Systems Involving Several p-Laplacian Operators, Electronic Journal of Differential Equations, Vol. 2009 (2009), No. 81, PP. 1-10.

Serag, H. and Khafagy, S., Existence of Weak Solutions for Nonlinear Systems Involving Degenerated p-Laplacian operators, Sarajevo Journal of Mathematics, Vol. 5 (17) (2009), pp. 1-14.

Serag, H. and Khafagy, S., On a nonhomogeneous elliptic systems  $n \times n$  Involving p-Laplacian with different weights, Journal of Advanced Research in Differential Equation, Vol. 1, Issue. 1, 2009, 47-62.

Serag, H. and Khafagy, S., On Maximum Principle and Existence of Positive weak Solutions for  $n \times n$  Nonlinear Elliptic Systems Involving Degenerated p-Laplacian, Operators, Turkish Journal of Mathematics, Vol. 34 (2010), PP. 59-71.

Khafagy, S., Maximum Principle and Existence of Weak Solutions for Nonlinear System Involving Different Degenerated p-Laplacian Operators on  $R^N$ , New Zealand Journal of Mathematics, Vol. 39 (2009), 151-163.

Khafagy, S., Existence and Nonexistence of Positive Weak Solutions for a Class of (p,q)-Laplacian with Different Weights, Int. J. Contemp. Math. Sciences, Vol. 6 (48) (2011), 2391- 2400.

Khafagy, S., Existence and uniqueness of weak solution for weighted p-Laplacian Dirichlet problem, Journal of Advanced Research in Dynamical and Control Systems, Vol. 3 (3) (2011), 41- 49.

Khafagy, S., Existence, nonexistence and uniqueness of positive weak solution for a nonlinear system involving weighted p-Laplacian, Global Journal of Pure and Applied Mathematics, Vol. 8 (2) (2012), 205-214.

Khafagy, S., Existence and uniqueness of weak solution for quasilinear elliptic (p,q)-Laplacian system, Global Journal of Pure and Applied Mathematics, Vol. 8 (4) (2012), 465-475.

Khafagy, S., On positive weak solution for a nonlinear system involving weighted p-Laplacian, Journal of Advanced Research in Dynamical and Control Systems, Vol. 4 (4) (2012), 50- 58.

S. Khafagy, Maximum Principle and Existence of Positive Weak Solutions for Nonlinear Systems, Lambert Academic Publishing, 2012.

Khafagy, S., Existence and nonexistence of positive weak solutions for a class of weighted (p,q)-Laplacian nonlinear system, Global Journal of Pure and Applied Mathematics, Vol. 9 (4) (2013), 379-387.

#### Teaching Experience

Functional Analysis	Mat 482	Faculty of Science	Al-Azhar and Majmaah Universities
Real Analysis	Mat 382	Faculty of Science	Al-Azhar and Majmaah Universities
Complex Analysis	Mat 485	Zulfi Science	Al-Azhar and Majmaah Universities
Calculus I, II, III	Math101, 102, 201	Zulfi Science	Al-Azhar and Majmaah Universities
Differential Equation	Math 321, Mat 224	Faculty of Science	Al-Azhar and Majmaah Universities
Geometry	Mat 121, Math 273	Faculty of Science	Al-Azhar and Majmaah Universities

#### Conferences

International Conference on Mathematics, Trends and Development	Cairo, Egypt	2002
The Third Workshop On Mathematical Analysis And Applications	Cairo, Egypt	2005
School on Algebraic Approach to Differential Equations	Alex, Egypt	2007
Sixth International Conference (Education, Development, environment)	Cairo, Egypt	2008
School on Recent Developments in the Theory of Elliptic PDE	Arab Academy	2009
Seventh International Scientific Conference, Al-Azhar University	Cairo	2010
Egypt-France Mathematical Conference	Cairo	2010

#### Training Experience

Training " E- Learning ", Majmaah University , Saudi Arabia
Training " The culture of E-learning" Majmaah University , Saudi Arabia
Training " The Skills of E-learning" Majmaah University , Saudi Arabia
Training " E- Learning ", Majmaah University , Saudi Arabia

#### Practical Skills

ICDL(International Computer Driving License ), Latex Writing
--

## Prof. Dr. Mohamed Ahmed Elsayed Herzallah



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Faculty of Science, Zulfi  
Majmaahh university

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### Research Interests:

Functional Analysis

Fractional Calculus

Fractional Calculus of variations

Fractional Evolution Equation

Existence and Uniqueness theorems of fractional differential equation

### Qualification (Career and University Education)

1993-1997	B. Sc. Degree (Mathematics)	Grade "Excellent", Faculty of science, Zagazig University, Zagazig, Egypt.
1998-2002	MS. C. Degree (Mathematics)	Faculty of science, Zagazig University, Zagazig, Egypt..
2002-2005	PhD Degree (Mathematics )	Faculty of science, Zagazig University, Zagazig, Egypt.
2005-2013	Ass. Prof. Degree (pure Mathematics)	Faculty of science, Zagazig University, Zagazig, Egypt.

### Experience (Teaching Experience)

1998-2002	Demonstrator at Department of Mathematics, Faculty of science, Zagazig University, Zagazig, Egypt.
2002-2005	Assistant Lecturer at Department of Mathematics, Faculty of science, Zagazig University, Zagazig, Egypt.
2005-2008	Lecturer at Department of Mathematics, Faculty of science, Zagazig University, Zagazig, Egypt.
2013-	Assistant Professor at Department of Mathematics, Faculty of science, Zagazig University, Zagazig, Egypt

### International Experience

2008-	Assistant Professor at Department of Mathematics , Faculty of Science, Majmaahh university , Saudi Arabia
-------	---

### Publication

- 1- A. M. A. El-Sayed and M. A. E. Aly, On the continuation of fractional order evolutionary integral equations and some applications, *KJCAM*, 9, (2002), 525-533.
- 2- A. M. A. El-Sayed and M. A. E. Herzallah, Continuation and maximal regularity of fractional-order evolution equation, *J. Math. Anal. Appl.*, 296(1), (2004), 340-350.
- 3- A. M. A. El-Sayed and M. A. E. Herzallah, Continuation and maximal regularity of an arbitrary (fractional) order evolutionary integro-differential equation, *Applicable Analysis*, 84(11), (2005), 1151 - 1164
- 4- A. M. A. El-Sayed and M. A. E. Herzallah, Continuation and maximal regularity of fractional-order evolutionary integral equation, *Inter. J. evolution equ.*, 1(2), (2005), 179-190.
- 5- M. A. E. Herzallah and D. Baleanu, Fractional-order Euler-Lagrange equations and formulation of Hamiltonian equations, *Nonlinear Dyn.*, 58(1-2), 385-391, (2009)
- 6- M. A. E. Herzallah, A. M. A. El-Sayed and D. Baleanu, Perturbation for fractional-order evolution equation,

- Nonlinear Dyn. 62: 593–600 (2010)
- 7- M. A. E. Herzallah and D. Baleanu, On abstract fractional order telegraph equation J. Comput. and Nonlinear Dynam., , Vol. 5 number 2 , 021008-5, April (2010)
  - 8- M. A. E. Herzallah, A. M.A. El-Sayed and D. Baleanu, On the fractional-order Diffusion-Wave process, Rom. Journ. Phys., Vol. 55, Nos. 3–4, P. 274–284, Bucharest, (2010)
  - 9- M. A. E. Herzallah and D. Baleanu, Fractional-Order Variational Calculus with Generalized Boundary Conditions, Advances in Difference Equations, doi:10.1155/2011/357580 (2011)
  - 10- M. A. E. Herzallah, S I. Muslih, D. Baleanu and E.M. Rabei, Hamilton-Jacobi and fractional like action with time scaling, Nonlinear Dyn. Vol. 66(4) (2011) 549-555.
  - 11- A. M. A. EL-Sayed, E. Ahmed and M. A. E. Herzallah, On The Fractional-Order Games With Non-Uniform Interaction Rate And Asymmetric Games, Vol. 1. July 2011, No.1, pp. 1-9.
  - 12- M. A. E. Herzallah and K. A. Gepreel, Approximate solution to the time-space fractional cubic nonlinear Schrodinger equation, Appl. Math. Modell. (2012), doi:10.1016/j.apm.2012.01.012
  - 13- M. A. E. Herzallah and D. Baleanu, Existence of a periodic mild solution for a nonlinear fractional differential equation, Computers and Mathematics with Application (2012), doi:10.1012/j.camwa.2011.12.060.
  - 14- M. A. E. Herzallah and D. Baleanu, Fractional Euler–Lagrange equations revisited, Nonlinear Dyn. 69(3) 977–982(2012)
  - 15- M. A. E. Herzallah, Variational calculus with fractional and classical derivatives, Rom. J. Phys. (2012) Vol.57(9–10),1261-1269.
  - 16- . A. E. Herzallah, Mild and strong solutions to few types of fractional order nonlinear equations with periodic boundary conditions, Indian J. Pure Appl. Math., (2012) Vol. 34(6) 1-17.
  - 17- M. A. E. Herzallah, M. El-Shahed and D. Baleanu, Mild and strong solutions for a fractional nonlinear Neumann boundary value problem, J. Comput. Anal. Appls. (2013) Vol.15(2) 341-352.
  - 18- M. A. E. Herzallah, Comments on “The effect of fractional parameter on a perfect conducting elastic half-space in generalized magneto-thermoelasticity” by N. Sarkar and A. Lahiri [Meccanica (2013) 48:231–245], Meccanica (2013) 48:2567–2568.
  - 19- M. A. E. Herzallah, Comments on “Effect of fractional parameter on plane waves of generalized magneto-thermoelastic diffusion with reference temperature-dependent elastic medium” [Comput. Math. Appl. 65 (2013) 1104–1118], Comput. Math. Appl. 67 (2014) 997–998.
  - 20- M. A. E. Herzallah and D. Baleanu, On fractional order hybrid differential equations, Abstract and applied analysis, (accepted).

#### Teaching

Subject	Code	Faculty	University
Ordinary Differential Equations	Math 321	Science	Zagazig, Banha and Majmaah
Theory of Differential Equations	Math	Education	Zagazig
Calculus 1	Math 201	Science	Zagazig and Majmaah
Calculus 2	Math 202	Science	Zagazig and Majmaah
Calculus 3	Math 203	Science	Zagazig
Real Analysis	Math 381	Science	Zagazig and Banha
Differential Geometry	Math 473	Science	Zagazig and Majmaah
Partial Differential Equations	Math 423	Science	Majmaah
Functional Analysis	Math 484	Science	Zagazig, Banha and Majmaah
Numerical Analysis	Math 351	Science	Zagazig and Majmaah
Linear Algebra	Math 241	Science	Zagazig and Majmaah
Abstract Algebra	Math	Science	Zagazig
Group Theory	Math 342	Science	Majmaah
Calculus of Variations	Math	Science	Zagazig
Measure Theory	Math	Science	Zagazig
Analytic Geometry	Math 271	Science	Zagazig and Majmaah
<b>Mathematical Methods</b>	<b>Math 322</b>	<b>Science</b>	<b>Majmaah</b>



## Ass. Prof. Dr. Abd El-Monem Abd El-hameed Abd El-hameed megahed



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### Research Interests:

Operation research

Mathematical programming

Game Theory

Semi-Infinite programming

Fuzzy Differential game

Generalized Convexity

### Qualification (Career and University Education)

1990	B. Sc. Degree (Mathematics)	Grade "very good ", Faculty of science, Tanta University.
1997	MS. C. Degree (Mathematics)	Faculty of science, Tanta University.
2003	PhD Degree in Mathematics (Operations research)	Faculty of science, Tanta University.

### Experience (Teaching Experience)

1994-1999	Research Assistant , faculty of science, Tanta University, ,Ismalia Egypt
1999-2003	Assistant Lecturer at Department of basic Science , faculty of Computer and Informatics ,Suez Canal University, Ismalia Egypt
2003-2006	Lecture at Department of basic Science , faculty of Computer and Informatics ,Suez Canal University ,Ismalia Egypt
2006-	Assistant Professor at Department of Mathematics ,College of Science, Majmaahh university , Saudi Arabia

### International Experience

2006-	Visiting Lecturer for Mathematics Department , Majmaahh university
-------	--

### Publication

Study on Fuzzy Differential game, Journal of Fuzzy Mathematics, Los Angles, USA (2001)
A study on Large Scale Continuous Differential Game, Calcutta Mathematical Society, India(2002).
A Study on Fuzzy Differential Game, LE Mathematiche, DI CTANIA, Italia (2001)
Min-Max Zero Sum Two Persons Fuzzy Continuous Differential Game, International Journal of Applied Mathematics ,Academic Publication ,Sofia,1054 Bulgaria (2008)
A Combined Interactive Approach for solving E-convex multiobjective nonlinear Programming, Applied Mathematics and Computation(217)(2011)6777-6784, 2011



Optimality conditions of E-convex programming for an E-differentiable function, Journal of Inequalities and Applications,(2013)
Second Order (F, a, q, d, E)-convex function and the Duality Problem, Journal of the Egyptian Mathematical Society (2014) 22, 23–27
MIN- MAX ZERO SUM TWO PERSONS CONTINUOUS DIFFERENTIAL GAME WITH FUZZY CONTROLS, Asian Journal of Current Engineering and Maths, April (2013) 86 -98.
A Study on the Duality of E-Convex Non-Linear Programming Problem, Int. Journal of Math. Analysis, Vol. 7, 2013, no. 4, 175 - 185
An n-order (F; $\alpha_-$ ; $\alpha_+$ ; d)-Convex Function and Duality Problem, Journal of advances in Mathematics, Jan 3,2014
Paper Accepted
A matrix Optimization Theory, Far East Journal of Mathematical Sciences (FJMS)

## Teaching

Differential Geometry	Math	Faculty of Education	Egypt
Linear Algebra	Math	Faculty of Computers and Informatics	Egypt
Calculus in several variable	Math	Faculty of Education	Egypt
Non-linear Programming	Math	Faculty of Science	Egypt
Linear Algebra	Math	Faculty of Education	Egypt
Mathematical for Dynamic Model	Math	Faculty of Computers and Informatics	Egypt
Mathematical Probability	Stat	Faculty of Computers and Informatics	Egypt
Differential Equation	Math	Faculty of Computers and Informatics	Egypt
Partial Differential Equation	Math	Faculty of Computers and Informatics	Egypt
Geometry	Math	Faculty of Computers and Informatics	Egypt
Calculus	Math 101	Zulfi Science	Majmaahh University
Linear Algebra	Math242	Zulfi Science	Majmaahh University
Statistics and Probability	Stat101	Zulfi Science	Majmaahh University
Calculus	Math	Faculty of Science	Egypt
Mathematics Basis	Math231	Zulfi Science	Majmaahh University
Calculus	Math205	Zulfi Science	Majmaahh University
Introduction to Geometry	Math123	Zulfi Science	Majmaahh University
Abstract Algebra	Math	Faculty of Education	Majmaahh University
Vector Calculus	Math202	Zulfi Science	Majmaahh University
Differential Equation	Math204	Zulfi Science	Majmaahh University
Linear Algebra and Analytic Geometry	Math107	Zulfi Science	Majmaahh University
Linear programming	Math356	Zulfi Science	Majmaahh University
Mathematical Methods	Math316	Zulfi Science	Majmaahh University
Mathematical Economic	Econ 331	Zulfi Science	Majmaahh University
Optimization Technique	Oper431	Zulfi Science	Majmaahh University
Preparatory Math1	Math001	Zulfi Science	Majmaahh University
Preparatory Math2	Math002	Zulfi Science	Majmaahh University
Partial Differential Equation	Math422	Zulfi Science	Majmaahh University
Calculus	Math102	Zulfi Science	Majmaahh University
Operations Research and its Application	Cis327	Zulfi Science	Majmaahh University

## Ass. Prof. Dr. Mohammed EL-Shahat Mahmoud EL-Saadani



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### Research Interests:

Mathematical Statistics

Inventory Models

Estimation theory

### Qualification (Career and University Education)

1993-1997	B. Sc. Degree (Mathematics)	Grade "very good ", Faculty of science, Tanta University, Egypt
1998-2002	MS. C. Degree (Mathematical Statistics)	Faculty of science, Tanta University, Egypt
2002-2006	PhD Degree (Mathematical Statistics)	Faculty of science, Tanta University, Egypt

### Experience (Teaching Experience)

1998-2001	Assistant Researcher at Department of Mathematics, faculty of science, Tanta, Tanta University, Egypt
2003-2006	Assistant Lecturer at Department of Mathematics, faculty of Education, Sues, Sues Canal University
2006-2008	Lecture at Department of Mathematics, faculty of Education, Sues, Sues Canal University, Egypt
2008-	Assistant Professor at Department of Mathematics, College of Science, Majmaahh university, Saudi Arabia

### International Experience

2008-2010	Visiting Lecturer for Mathematics Department, Qassim university
2010-	Visiting Lecturer for Mathematics Department, Majmaahh university

### Publication

[1] " Probabilistic Multi-item Inventory Model With Varying Holding Cost Under Two Non-Linear Constraints: A Geometric Programming Approach". The 36<sup>th</sup> Annual Conference On Statistics, Computer Sciences And Operation Research, ISSR, Cairo University, Egypt, pp. 51-65. (2001).

[2] " Probabilistic Multi-item Inventory Model With Varying Holding Cost Under Two Linear Constraints: A Geometric Programming Approach". Journal Of A.M.S.A., France., Vol. 23, No. 4, pp. 17-29. (2002).

[3] " Constrained Single Period Stochastic Inventory Model with Instantaneous Demand and Varying Holding Cost". The 39<sup>th</sup> Annual Conference On Statistics, Computer Sciences And Operation Research, ISSR, Cairo University, Egypt, pp. 203-212. (2004).

[4] " Constrained Probabilistic Inventory Model with Continuous Review and Varying Holding Cost". International Journal of Applied Mathematics, Vol.17, No. 1, pp.53-67, (2005).

[5] Constrained Single Period Stochastic Uniform Inventory Model with Continuous Distribution of Demand and Varying Holding Cost". Science Publications, American Journal of Mathematics and Statistics 2 (1), pp.334-338. USA, (2006).

Teaching			
Introduction to probability and statistics	Sta 224	Zulfi Science	Majmaahh University
Principles of statistics	Stat 101	Zulfi Science	Majmaahh University
Principles of distribution theory	Sta 202	Zulfi Science	Majmaahh University
Calculus II	Mat 102	Zulfi Science	Majmaahh University
Forecasting methods	Oper 321	Zulfi Science	Majmaahh University
Data analysis	Sta 438	Zulfi Science	Majmaahh University
Differential Equation	Mat 204	Zulfi Science	Majmaahh University
Probability 1	Sta 211	Zulfi Science	Majmaahh University
<b>Pre Calculus</b>	<b>Math002</b>	<b>Zulfi Science</b>	<b>Majmaahh University</b>

### Ass. Prof. Dr. Mohammed Mohammed khalaf



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#### Research Interests:

Topology

Rough sets theory

Lattice theory

Formal concepts analysis

Bitopological Spaces

#### Qualification (Career and University Education)

1992-1996	B. Sc. Degree (Mathematics)	Grade "good ", Faculty of science, sohag, South Valley University.
2000-2003	MS. C. Degree (Mathematics)	Faculty of science, sohag, South Valley University.
2005-2009	PhD Degree (Mathematics )	<u>Internal</u> part at Faculty of science, assuit, AL AZHAR University

#### Experience (Teaching Experience)

1999-2003	Study in Demonstrator at Department of Mathematics, faculty of science, sohag, South Valley University
2003-2009	Assistant Lecturer at Department of Mathematics, faculty of science, alrass, qassem University, ksa
2010-2011	Lecture at Department of Mathematics, Higher Institute of Engineering and Technology Alexandria
2011-	Assistant Professor at Department of Mathematics , Faculty of Science, Majmaahh university , Saudi

Arabia	
International Experience	
2007-2010	Visiting Scholar, Theoretical computer science, elminea and alexandera
2011-	Visiting Lecturer for Mathematics Department , Majmaahh university

#### Publication

**Mohammed . khalaf et all** , mu-weak structure , Indean journal of applied reserch , Volume : 4 | Issue : 1 | Jan 2014 | ISSN - 2249-555X ( jan 2014 ) ( **Gimpact 2.26** )

**Mohammed . khalaf et all** , *Measure on weak structure , IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-3008, p-ISSN:2319-7676. Volume X, Issue X Ver. I(Jan. 2014), PP 01-00*  
( *african impact 1.3* )

**Mohammed . khalaf** , Medical diagnosis via interval valued inti., fuzzy sets Analysis of fuzzy math. And informatics Volume 6, No. 2, (September 2013), pp. 245-249

**Zahran A. M., Zeyada F. M. , Azab Abd-Allah M. and Khalaf M. M. (2008)**, Separation axioms in L-Fuzzifying topology, Far East Journal of Mathematical Science ( FJMS ). vol. 21 no. 2 227-249.

**Zeyada F. M. Azab Abd-Allah M. and Khalaf M. M. (2008)**, Short Communication: A comment on and a characterization of the concept of complete residuated lattice, Journal of nonlinear Sciences and Applications 1 , no.2, 202-204.

**I. M. Hanafy, F. S. Mahmoud and Khalaf M. M.**, Fuzzy topology on fuzzy sets, fuzzy  $\gamma$  -continuity and fuzzy  $\gamma$  -retract, international journal of fuzzy logic and intelligent system vol.4 no. 1, March 2005, PP. 29-34.

**I. M. Hanafy, F. S. Mahmoud and Khalaf M. M.**, intuitionistic fuzzy retracts, international journal of fuzzy logic and intelligent system vol.4 no. 1, March 2005, PP. 40-45.

F. S. Mahmoud, M.A.FathAlla and Khalaf M. M., F-  $\gamma$  — open sets, F-  $\gamma$  — continuity and F-  $\gamma$  — retracts, Applied Mathematics and computations 153(2004)117-126.

F. S. Mahmoud, M.A.FathAlla and Khalaf M. M., F $_{\mu}$  -strongly open sets, F $_{\mu}$  -strongly continuity and F $_{\mu}$  -strongly retracts, Applied Mathematics and computations 137(2003)209-230.

#### Teaching

Linear Algebra	Math242	Zulfi Science	Majmaahh University
Topology	Math	Higher Institute of Engineering and Technology Alexandria	Egypt,
Mathematics Basis	Math231	Zulfi Science	Majmaahh University
Calculus	Math205	alrass + alzulfi Science	Majmaahh University
Real Analysis	Math	Qassem university alrass Science	<b>Qassem university</b>
Abstract Algebra	Math	Qassem university alrass Science	<b>Qassem university</b>
Differential Equation	Math	Qassem university alrass Science	<b>Qassem university</b>
Partial Differential Equation	Math	Qassem university alrass Science	<b>Qassem university</b>
Geometry	<b>Math</b>	<b>Qassem university alrass Science</b>	<b>Qassem university</b>

## Dr. Omar Hassan Khalil



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### Research Interests:

Analysis

Sampling theory

Green's Function

Sturm-Liouville Problems

Integrodifferential eigenvalue Problems

### Qualification (Career and University Education)

1989-1992	B. Sc. Degree (Mathematics)	Grade "very good ", Faculty of science, Beni-Suef, Cairo University.
1997-2000	MS. C. Degree (Mathematics)	Faculty of science, Cairo University.
2001-2006	PhD Degree (Mathematics )	Faculty of science, Cairo University.

### Experience (Teaching Experience)

1993-2000	Demonstrator in Mathematics Department, Faculty of Science, Cairo University, Beni-Suef Branch.
2000-2006	Assistant Lecturer in Mathematics Department, Faculty of Science, Cairo University, Beni-Suef Branch.
2006-2011	a) Lecturer in Mathematics Department, Faculty of Science, Cairo University, Beni-Suef Branch from 24-12-2006 to now. b) Lecturer in Mathematics Department, Faculty of Education, Musrata University, Bani-Walid Branch from 15-09-2007 to 06-03-2011.
2011-	Assistant Professor at Department of Mathematics, Faculty of Science, Majmaahh university, Saudi Arabia till now.

### International Experience

2007-2011	Visiting Lecturer in Mathematics Department, Faculty of Education, Musrata University, Bani-Walid Branch from 15-09-2007 to 06-03-2011.
2011-	Visiting Lecturer in Mathematics Department, Majmaahh university till now.

### Publication

- H. Annaby, H. A. Hassan, O. H. El-Haddad, "Perturbed Discrete Sturm-Liouville Problems and Associated Sampling Theorems." *Rocky Mountain J. of Math. Vol. 39, No. 6, 2009.*
- M. H. Annaby, H. A. Hassan, O. H. El-Haddad, "A Perturbed Whittaker-Kotel'nikov-Shannon Sampling theorem." *J. of Math. Anal. and Appl., Vol. 381, Issue 1, 2011, Pages 64-79.*

M. H. Annaby, H. A. Hassan, O. H. El-Haddad, "A sampling theorem in a perturbed Paly-Wiener space." *to appear*.

M. H. Annaby, O. H. El-Haddad, "Sampling associated with perturbed Sturm-Liouville problems." *Submitted to publication*.

### Teaching

Calculus I	Math 201	Zulfi Science	Majmaahh University
Mathematical Methods	Math 316	Zulfi Science	Majmaahh University
Mathematics Basis	Math 231	Zulfi Science	Majmaahh University
Calculus II	Math 202	Zulfi Science	Majmaahh University
Complex Analysis	Math 484	Beni-Suef Science	Egypt
Functional Analysis	Math 482	Beni-Suef Science	Egypt
Ordinary Differential Equation	Math 321	Beni-Suef Science	Egypt
Partial Differential Equation	Math 422	Zulfi Science	Majmaahh University
Real Analysis	<b>Math 382</b>	<b>Beni-Suef Science</b>	Egypt

## Ass. Prof. Dr. Ahmed Mohamed Elmoasry



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Link to Homepage: <http://faculty.mu.edu.sa/>

### Research Interests:

Topology, Rough sets, Image Processing, Statistics, Probability

### Language Skills

Arabic, English, French, Germany

### Qualification (Career and University Education)

1997	B. Sc. Degree (Mathematics)
2003	M.Sc. Degree (Pure Mathematics Statistics)
2010	Ph.D. Degree (Pure Mathematics Computation based on topology )

### Career

1998-2003	Demonstrator at Department of Mathematics, Aswan faculty of science, Egypt.
2003-2010	Teaching Assistant at Department of Mathematics, Aswan faculty of science Egypt.
2010-2011	Assistant Professor at Department of Mathematics, Aswan faculty of science Egypt.
2011- up to now.	Assistant Professor at Department of Mathematics, Faculty of Science, Majmaahh university, KSA.

### Short Visits

2007-2009	Scholarship to study Ph.D. in International University Bremen, Germany.
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### Publication

- A Elmoasry, MS Maswadah, L Linsen **Semi-Automatic Rough Classification of Multichannel Medical Imaging Data** 2012
- MMK Ahmed Elmoasry  **$\mu$ -WEAK STRUCTURES** INDIAN JOURNAL OF APPLIED RESEARCH 4 (1), 351-355 , 2014
- MM Khalaf, A Elmoasry **Measure space on Weak Structure** IOSR Journal of Mathematics (IOSR-JM) 10 (Issue 1 Ver. I), PP 54-57 2014
- MM Khalaf, A Elmoasry  **$\mu$ -Weak Structures** Annals of Fuzzy Mathematics and Informatics 4 (1), 2014
- A Elmoasry **Topological view for uncertain probability** 2010
- A Elmoasry **Bayesian inference on the type II extreme value distribution based on type II progressively censored sample**, 2010

### Teaching Experience

Calculus, Deferential Equations, Numerical Analysis, Statistics, Probability, Fortran Language, C++, ICDL.

---

## Conferences

2009 **Visualization in Medicine and Life Sciences II** Bremerhaven, Germany

2001 Topology Conference Helwan University Egypt

2003 Topology Conference Tanat University, Egypt

2005 Topology Conference Tanat University, Egypt

2007 Topology Conference PortSaid University, Egypt

2010 Topology Conference BanySweef University, Egypt

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## Training Experience

University teacher preparation course

Effective Teaching Skills

Effective communication skills course

Code of Ethics course

Research Methods course

Teaching technology S1

ICDL certificate fourth edition

The stimulus on learning course

Trends of modern teaching and Calendar

Build and develop study plans

Education based on problem solving

Strategies to integrate technology in teaching

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## Practical Skills

ICDL

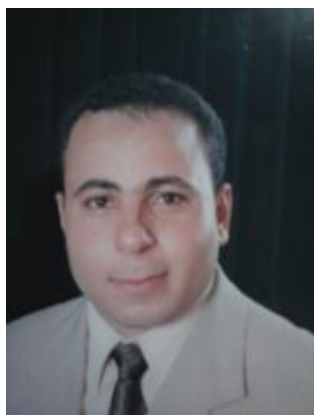
C++

FORTRAN

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## Ass. Prof. Dr. Ahmad Abd ALLAH ZEDAN



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## Research Interests:

Topology, Rough sets theory, Lattice theory, Formal concepts analysis, Bitopological Spaces

---

## Language Skills

Arabic, English , German

---



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**Qualification (Career and University Education)**

---

1994-1998	B. Sc. Degree (Mathematics)	Grade "very good ", Faculty of science, Aswan, South Valley University.
1999-2003	MS. C. Degree (Mathematics)	Faculty of science, Aswan, South Valley University.
2003-2007	PhD Degree	<u>Internal part</u> at Faculty of science, Aswan, South Valley University
2007-2010	(Mathematics )	<u>External part</u> at Theoretical computer science Siegen University, Germany.

---

**Career**

1999-2003	Demonstrator at Department of Mathematics, faculty of science, Aswan, South Valley University
2003-2007	Assistant Lecturer at Department of Mathematics, faculty of science, Aswan, South Valley University
2010-2011	Lecture at Department of Mathematics, faculty of science, Aswan, South Valley University
2011-	Assistant Professor at Department of Mathematics , Faculty of Science, Majmaahh university , Saudi Arabia

---

**Short Visits (International Experience)**

2007-2010	Visiting Scholar, Theoretical computer science, Siegen , Germany
2011-	Visiting Lecturer for Mathematics Department , Majmaahh university

---

**Publication**

Abd El-Monsef, M. E.; Abo Khadra, A. A. ; zedan, A. A. ; " <i>Changes of approximation spaces</i> ", the 17 <sup>th</sup> Conference of Topology and its Application, Raas El-Bar July 27-28(2003).
Abd El-Monsef, M. E.; Abo Khadra, A. A. ; zedan, A. A. ; " <i>Simple expansion of Pawlak approximation space</i> ", J. Fuzzy Math. 16, No. 4, 821-833(2008). ISSN 1066-8950.
Abd El-Monsef, M. E.; Abo Khadra, A. A. ; zedan, A. A. ; " <i>Local discrete expansion of knowledge base</i> ", the 18 <sup>th</sup> Conference of Topology and its Application, Zagazig July 27-28( 2004).
Abd El-Monsef, M. E.; Abo Khadra, A. A. ; zedan, A. A. ; " <i>Supra-approximation space and its expansion</i> ", the 19 <sup>th</sup> Conference of Topology and its Application, Tanta August 2( 2005).
Abd El-Monsef, M. E.; Abo Khadra, A. A. ; zedan, A. A. ; " <i>On bi-approximation space</i> ",Fifth Annual Conference 24-26 March 2007, Cairo university
Spren Dieter, Abd El-Monsef, M. E.; Abo Khadra, A. A. ; zedan, A. A. ; " <i>Lattices of Topological Spaces and its Expanding</i> ", The 24 <sup>th</sup> Conference on Topology and its Application(2010)
Spren Dieter, Abd El-Monsef, M. E.; Abo Khadra, A. A. ; zedan, A. A. ; " <i>Formal Concept Analysis as bitopological Spaces</i> ", Egypt France Mathematics Conference May 3-5, 2010.

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**Teaching Experience**

Linear Algebra	Math242	Zulfi Science	Majmaahh University
Topology	Math	Aswan Science	Egypt
Mathematics Basis	Math231	Zulfi Science	Majmaahh University
Calculus	Math205	Zulfi Science	Majmaahh University
Real Analysis	Math	Aswan Science	Egypt
Abstract Algebra	Math	Aswan Science	Egypt
Differential Equation	Math	Aswan Science	Egypt
Partial Differential Equation	Math	Aswan Science	Egypt
Geometry	<b>Math</b>	Aswan Science	Egypt

---

**Conferences**

Egypt France Mathematics Conference	France Embassy	2010
Conference on Topology and its Application	Tanta	2010
Fifth Annual Conference	Cairo	2007

---

**Training Experience**

Training "Effective communication skills " , Aswan University , Egypt
Training "Effective teaching skills", Aswan University , Egypt
Training "Decision-making and problem-solving", Aswan University , Egypt

---

Training " E- Learning ", Majmaahh University , Saudi Arabia

Training " The culture of E-learning" Majmaahh University , Saudi Arabia

Training " The Skills of E-learning" Majmaahh University , Saudi Arabia

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### Practical Skills

ICDL(International Computer Driving License )

Zertifikat Deutsch (Goethe –Zertifikat G3)

Latex Writing , Web Design , Dream weaver

---

## Ass. Dr. Mohamed Ahmad Ibrahim Attia



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Mathematics Department  
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### Research Interests:

Numerical Analysis

Operation Research

Partial Differential Equation

Special Functions

### Language Skills

Arabic (mother language).

English Very Good.

### Qualification (Career and University Education)

1989-1993	B. Sc. Degree (Mathematics)	Grade "very good ", Faculty of science, Qena, Assiut University.
1996-2005	MS. C. Degree (Mathematics)	Faculty of science, Qena, South Valley University. Title of the Thesis "Spectral/Spline Collocation Methods for the Solutions of Some Partial Differential Equations (PDEs)"
2005-2009	PhD Degree (Mathematics )	Faculty of science, Qena, South Valley University. Title of the Thesis "Ultraspherical Approximations and Their Applications for Solving Optimal Control Problems"

### Career

1996-2005	Demonstrator at Department of Mathematics, faculty of science, Qena, South Valley University
2005-2009	Assistant Lecturer at Department of Mathematics, faculty of science, Qena, South Valley University
209-2013	Lecture at Department of Mathematics, faculty of science, Qena, South Valley University
2013-	Assistant Professor at Department of Mathematics , Faculty of Science, Majmaahh university , Saudi Arabia

### Short Visits

2011-	Visiting Lecturer for Mathematics Department , Majmaahh university
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### Publication

M. El-Kady, H. S. Hussien and M. Ibrahim; "Ultraspherical Spectral Integration Method for Solving Linear Integro-Differential Equations ", International Journal of Applied Mathematics and Computer Sciences, Vol. 5, No. 1, pp 25-32, (2009).

M. El-Kady and M. Ibrahim; "Ultraspherical Spectral Differentiation Method for Solving System of Initial Value Differential Algebraic Equations"; Computational Methods in Applied Mathematics (CMAM) (2009).

M. El-Kady and M. Ibrahim; "Application of Ultraspherical Series for Solving Quadratic Optimal Control Problems"; 22<sup>nd</sup> International conference on Topology and Its Applications, Helwan, 7-8 July 2008.

M. El-Kady ,M. Ibrahim and F. Ragab; "Ultraspherical Integration Method for Solving Beam Bending Boundary Value Problem"; Journal of Engineering and Applied Sciences – JEAS, ISSN: 1658-6638

### Teaching Experience

Numerical Analysis	Math351	Zulfi Science	Majmaahh University
Operation Research	Math	Qena Science	Egypt
Partial Differential Equation	Math	Qena Science	Egypt
Calculus	Math112	Zulfi Science	Majmaahh University
Advanced Calculus	Math	Qena Science	Egypt
Matlab	Math	Qena Science	Egypt
Differential Equation	Math	Zulfi Science	Majmaahh University
Computer Mathematics	Math	Qena Science	Egypt
computational numerical analysis	Math450	Zulfi Science	Majmaahh University
Fortran language	Math	Qena Science	Egypt
Introduction to the Mathematics	Math110	Zulfi College of Business dministration	Majmaahh University

### Conferences

22nd International conference on Topology and Its Applications	Helwan Science	2008
2nd International Conference on Computer Science Innovation & Technology (CCSIT 2013).	Alexandria Science	2013

### Training Experience

Training " Research Methods " , South Valley University, Egypt

Training "Effective teaching skills", South Valley University, Egypt

Training "Decision-making and problem-solving", South Valley University Egypt

Training " E- Learning " , Majmaahh University , Saudi Arabia

Training " Build and developing study plans" Majmaahh University , Saudi Arabia

### Practical Skills

ICDL (International Computer Driving License), 2006

### Managerial Expertis

Manager of Establishing and Implementing Electronic Portal of South Valley University. , Egypt

Trainer at the center of ICDL Computer, South Valley University, Egypt

Board Member of Mubarak Center for Consulting and Training

Trainer at Pathways to Higher Education,, South Valley University, Egypt

### Programming

Basic, Fortran, some Visual Basic, Matlab, Mathematica

## Ass. Prof. Dr. Abd El-Nasser Ghareeb Abd El-Rahman



Professor Assistant  
Mathematics Department  
Faculty of Science, Zulfi

Majmaahh university

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### Research Interests:

General topology

Fuzzy Topology

Application of Topology

Fuzzy Mathematics

Fuzzy Algebra

### Qualification (Career and University Education)

2001	B. Sc. Degree (Mathematics)	South Valley University, Egypt.
2007	MS. C. Degree (Mathematics - Topology)	South Valley University, Egypt.
2009	PhD Degree (Mathematics- Topology)	South Valley University, Egypt.

### Experience (Teaching Experience)

2001	Demonstrator at Department of Mathematics, faculty of science in Qena, South Valley University, Egypt.
2007	Assistant Lecturer at Department of Mathematics, faculty of science in Qena, South Valley University, Egypt.
2009	Lecture at Department of Mathematics, faculty of science in Qena, South Valley University, Egypt.
2012	Assistant Professor at Department of Mathematics , Faculty of Science, Majmaahh university , Saudi Arabia

### International Experience

Editor in:

(1) Journal of Advanced Research in Pure Mathematics.

(2) Journal of Advanced Studies in Topology.

### Publication

1. A. M. Zahran, M. Azab Abd-Allah, A. Ghareeb. **R**-Fuzzy **F**-closed spaces. International journal of fuzzy logic and intelligent systems. 6(3) (2006): 255-263.
2. A. M. Zahran, M. Azab Abd-Allah and A. Ghareeb. Notions of openness and closedness for maps between **L**-fuzzy closure spaces. Hacettepe journal of mathematics and statistics. 35(2) (2006): 161-172.
3. A. M. Zahran, M. Azab Abd-Allah and A. Ghareeb. Fuzzy weakly preopen (preclosed) function in Kubiak-Šostak fuzzy topological spaces. Chaos, solitons & fractals. 39 (2009): 1158-1168.
4. A. M. Zahran, M. Azab Abd-Allah, Kamal El-Saady and A. Ghareeb. Double fuzzy preproximity spaces. International journal of fuzzy logic and intelligent systems. 7(4) (2007): 249-255.
5. A. M. Zahran, M. Azab Abd-Allah, Kamal El-Saady and A. Ghareeb. Sum intuitionistic fuzzy closure spaces. Punjab university journal of mathematics. 40 (2008): 71-81.
6. A. M. Zahran, M. Azab Abd-Allah, Kamal El-Saady and A. Ghareeb. An **(r, s)**-derived sets and double fuzzy closure

operators. International journal of fuzzy logic and intelligent systems. 8(1) (2008): 6-10.

7. A. M. Zahran, M. Azab Abd-Allah, Kamal El-Saady and A. Ghareeb. Category of double fuzzy preproximity spaces. International journal computers and mathematics with applications. 58(8) (2009): 1558-1572.
8. M. Azab Abd-Allah, Kamal El-Saady and A. Ghareeb.  $(\mathbf{r}, \mathbf{s})$ -Fuzzy  $\mathbf{F}$ -open sets and  $(\mathbf{r}, \mathbf{s})$ -fuzzy  $\mathbf{F}$ -closed spaces. Chaos, solitons & fractals. 42(3) (2009). 649-656.
9. A. M. Zahran, M. Azab Abd-Allah, Kamal El-Saady and A. Ghareeb. Double fuzzy semi-topogenous structure. Journal of fuzzy mathematics. 18(2) (2010). 1-16
10. A. M. Zahran, M. Azab Abd-Allah and A. Ghareeb. Several types of double fuzzy irresolute functions. International journal of computational cognition. 8(2) (2010): 19-23.
11. A. M. Zahran, M. Azab Abd-Allah, Kamal El-Saady and A. Ghareeb. A note in  $\mathbf{L}$ -double gradation fuzzy topological and closure spaces. Journal of fuzzy systems and mathematics. 24(3) (2010): 53-61.
12. Kamal El-Saady and A. Ghareeb. Several types of  $(\mathbf{r}, \mathbf{s})$ -fuzzy compactness defined by an  $(\mathbf{r}, \mathbf{s})$ -fuzzy regular semi open sets. Annals of fuzzy mathematics and informatics. 3(1) (2012): 159-169.
13. M. Azab Abd-Allah and A. Ghareeb. Multi-intuitionistic fuzzy sets and intuitionistic fuzzy  $\mathbf{P}$  systems. International journal of fuzzy logic and intelligent systems. 8(4) (2008): 284-287.
14. M. Azab Abd-Allah and A. Ghareeb. Rough intuitionistic fuzzy subgroup. Chaos, solitons & fractals. 42(2) (2009): 2145-2153.
15. A. Ghareeb. Normality of double fuzzy topological spaces. Applied mathematical letters. 24(4) (2011): 533-540.
16. A. Ghareeb. A new form of  $\mathbf{F}$ -compactness in  $\mathbf{L}$ -fuzzy topological spaces. Mathematical and computer modeling. 54 (2011): 2544-2550.
17. A. M. Zahran and A. Ghareeb, A. H. Zakari.  $\mathbf{Y}$ -Compactness in  $\mathbf{L}$ -topological spaces. Kragujevac journal of mathematics. 35(1) (2011): 25-37.
18. A. Ghareeb.  $\mathbf{L}$ -Fuzzy semi-preopen operator in  $\mathbf{L}$ -fuzzy topological spaces. Neural computing and applications. 21 (2011): 87-92.
19. A. Ghareeb. Preconnectedness degree of  $\mathbf{L}$ -fuzzy topological spaces. International journal of fuzzy logic and intelligent systems 11(1) (2012): 54-58.
20. A. Ghareeb. Hutton  $\mathbf{L}$ -Double uniform spaces. Neural computing and applications. 21 (2012): 181-189.
21. A. Ghareeb. A General framework of compactness in  $\mathbf{L}$ -topological spaces. Hacettepe journal of mathematics and statistics. 41 (1) (2012): 67-75.
22. A. Ghareeb and T. Noiri.  $\mathbf{A}$ -Generalized closed sets in bitopological spaces. Journal of the Egyptian mathematical society. 19 (3)(2012): 142-145
23. A. M. Zahran, Kamal El-Saady and A. Ghareeb. Modification of weak structures via hereditary classes. Applied mathematics letters. 25(5) (2012): 869-872.
24. A. M. Zahran and A. Ghareeb. Fuzzy  $\mathbf{Cs}$ -closed spaces. Annals of fuzzy mathematics and informatics. 3(1) (2012): 1-8.
25. A. Ghareeb. Weak forms of continuity in  $\mathbf{I}$ -double gradation fuzzy topological spaces. Springer Plus. (2012): 1-19.
26. A. Ghareeb and T Noiri.  $\mathbf{A}$ -Generalized closed sets with respect to an ideal bitopological space. Afrika matematika. 24 (2013): 97-101.
27. Kamal El-Saady and A. Ghareeb. Net-convergence and weak separation axioms in  $(\mathbf{L}, \mathbf{M})$ -fuzzy topological molecular lattices. Journal of the Egyptian mathematical society. 21 (2013): 305-310.
28. A. Ghareeb. Weakly semi-preopen and semi-preclosed functions in  $\mathbf{L}$ -fuzzy topological spaces. Soft computing. 17(5) (2013): 725-731.
29. Naveed Yaqoob, Ronnason Chinram, A. Ghareeb and Muhammad Aslam. Left almost semigroups characterized by their interval valued fuzzy ideals. Afrika matematika. 24 (2013):231-245.
30. Faisal, Naveed Yaqoob and A. Ghareeb. Left regular  $\mathcal{AG}$ -groupoids in terms of fuzzy interior ideals. Afrika Matematika. (2013) (accepted).
31. Fatimah. M. Mohammed, M. S. M. Noorani and A. Ghareeb. Generalized  $\Psi\mathbf{p}$ -operations on double fuzzy topological spaces. AIP Conf. Proc. 1571, 943 (2013); <http://dx.doi.org/10.1063/1.4858775>.
32. A. M. Zahran, A. K. Musa and A. Ghareeb. Generalized closed sets and some separation axioms on weak structure. Hacettepe Journal of Mathematics and Statistics. (2014).
33. Fatimah. M. Mohammed, M. S. M. Noorani and A. Ghareeb. Slightly double fuzzy continuous functions. Journal of Egyptian Mathematical Society. (2014).

## Teaching

### Topology

Differential Geometry

Real Analysis I

Differential Equations for physics

Calculus I

Calculus II

Preparatory Year Mathematics

## Lecturer. Kamal Nazmi Nimer



Lecturer  
Mathematics Department  
Faculty of Science, Zulfi

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### Research Interests:

### Language Skills

Arabic - English

### Qualification (Career and University Education)

1981 - 1985	B. Sc. Degree (Mathematics)	Department of Mathematics-Faculty of science – Karachi University - Pakistan
1985 - 1987	MS. C. Degree (Mathematics)	Department of Mathematics-Faculty of science – Karachi University - Pakistan
	PhD Degree (Mathematics )	

### Career

1995 - 2002	Lecturer at Queen alia college - Jordan
2001 - 2006	Lecturer at Department of Mathematics, faculty of science - Philadelphia University-Jordan
2004 - 2007	Lecturer at, Faculty of Economy and Administrative Sciences - Zarqa Private university-Jordan
2005 - 2007	Lecturer at, Faculty of Economics and Administrative Sciences- The Hashemite University-Jordan

### Short Visits

### Publication

### Teaching Experience

Calculus 1, Calculus 2 , Calculus 3	faculty of science	<b>Philadelphia University</b>
Differential equations		
Introduction to statistics - <b>Mathematics of Economics and Business Administration</b>	Faculty of Economy and Administrative Sciences	<b>Zarqa Private university-Jordan</b>
Operation research	Faculty of Economics and Administrative Sciences	<b>The Hashemite University-</b>

		<b>Jordan</b>
Calculus 1, Calculus 2, Differential equations, Introduction to statistics Linear Algebra and Analytical Geometry, <b>Mathematics of Economics</b> ,Introduction to Mathematics	Zulfi Science	Majmaah University
<b>Conferences</b>		
<b>Training Experience</b>		
Training " E- Learning " , Majmaah University , Saudi Arabia		
Smart interactive whiteboards ",Majmaah University"		
Perceptions about the typical lecture ",Majmaah University"		
Improving the quality of education by using codified models for the evaluation		
<b>Practical Skills</b>		
Using smart board in teaching		

### Lecturer: Mohammed Omer Mahgoub Mohammed



Lecturer  
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### Research Interests:

Fluid dynamics, Dynamical systems and Bifurcation control.

### Language Skills

English , German and Arabic as mother language.

### Qualification (Career and University Education)

1994 - 1999	B. Sc. Degree (Mathematics)	Sudan university for science and technology.
2004 - 2006	MS. C. Degree (Applied Mathematics)	Alneelain University
2013 - present	PhD Student (Applied Mathematics)	Alneelain University



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#### Career

Demonstrator at Department of Information technology, faculty of computer science
Assistant Lecturer at Department of Mathematics, faculty of science
Lecture at Department of Mathematics, faculty of science – Zulfi , Majmaah university.

#### Short Visits

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#### Publication

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#### Teaching Experience

Statistics I	STAT 101	College of Computer Sciences	Technology Sciences University - Sudan
Basic Mathematics	Math 102	College of Education	Arab Open University K SA
Vector Calculus	Math 204	College of Science	Majmaah University
Multi-variable Calculus	Math 203	College of Science	Majmaah University
Introduction to Mathematics I	PMTH 111	College of Science	Majmaah University
Introduction to Mathematics II	PMTH 127	College of Science	Majmaah University
Differential Equations	Mat 204	College of Science	Majmaah University
Multi-variable Calculus for Physics	Math 205	College of Science	Majmaah University
Computer Mathematical Applications	Math 353	College of Science	Majmaah University
Topics in Applied Mathematics	Math 411	College of Science	Majmaah University
Introduction to Integral Calculus	Mat 102	College of Science	Majmaah University
Introduction to Analytic Geometry	Math 273	College of Science	Majmaah University

#### Conferences

International Conference in Computer and Information Technology	Tayibah University – Madinah KSA	2012
Scientific specializations in New-established Universities	Majmaah University - KSA	2013

#### Training Experience

Training “ programs and Courses specifications and reports “ Majmaah University KSA.
Training “ using the virtual classrooms in teaching “Majmaah University KSA.
Workshop “ integrating technology in education strategies “Majmaah University KSA.
Training “ using the electronic platforms in teaching “Majmaah University KSA.
Workshop “ developing of students evaluation methods “Majmaah University KSA.
Training “ Cooperative Learning “Majmaah University KSA.

#### Practical Skills

Computer Knowledge and web skills.
German language Diploma
Mathematical software expert [ MATLAB , MATHEMATICA and MAPLE ] .

### Scholarship Names

	Name	Rink	Field	Position Study	E-mail
1)	Mansour Elhabardi	Lecture	Mathematics	England	<a href="mailto:m.alhabradi@mu.edu.sa">m.alhabradi@mu.edu.sa</a>
2)	Mohamed Elbadah	Admisrator	Mathematics	Canada	@mu.edu.sa
3)	Ahmed Elanzei	Admnstrator	Mathematics	USA	@mu.edu.sa

### Administrator Names

	Name	Rink	Field	Position Study	E-mail
1)	Majed Elowaid	Administrator	Mathematics		<a href="mailto:m.alouaid@mu.edu.sa">m.alouaid@mu.edu.sa</a>
2)	Abdulrzag Aldweesh	Administrator	Mathematics		<a href="mailto:as.aldweesh@mu.edu.sa">as.aldweesh@mu.edu.sa</a>
3)	Nader Alhabradi	Administrator	Mathematics		<a href="mailto:n.alhabradi@mu.edu.sa">n.alhabradi@mu.edu.sa</a>

### Technician Names

	Name	Rink	Field	work	E-mail
1)	Ahmed Alwazzan	B. Sc.	Mathematics	Zulfi College	<a href="mailto:a.alwazzan@mu.edu.sa">a.alwazzan@mu.edu.sa</a>

### Secretary Names

	Name	Rink	Field	Position Study	E-mail
1)	Yasser	Administrator	Physics		<a href="mailto:m.alouaid@mu.edu.sa">m.alouaid@mu.edu.sa</a>
2)	Abdulrzag Aldweesh	Administrator	Physics		<a href="mailto:as.aldweesh@mu.edu.sa">as.aldweesh@mu.edu.sa</a>
3)	Nader Alhabradi	Administrator	Physics		<a href="mailto:n.alhabradi@mu.edu.sa">n.alhabradi@mu.edu.sa</a>

## STATISTICS INFORMATION FOR MATHEMATICS PROGRAM

Occupation	Number	Non-Saudi	Saudi
Professor	3	3	-
Associate Professor	2	2	-
Assistant professor	10	10	-
Lecturer	4	2	2
Demonstrator	3	-	3
Scholarship	4	-	4
Total		17	9

Illustration shows the percentage of Saudi to non-Saudis to the functional framework

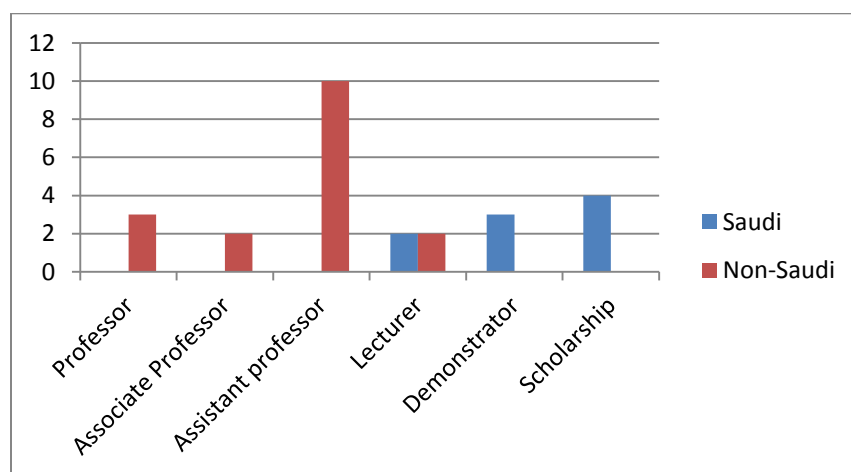


Illustration shows the overall non-Saudi Arabia

The proportion of non-Saudi Arabia 34.6%

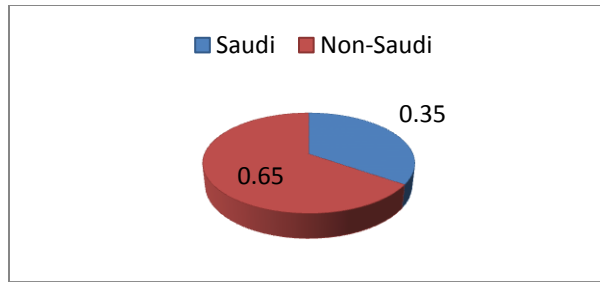
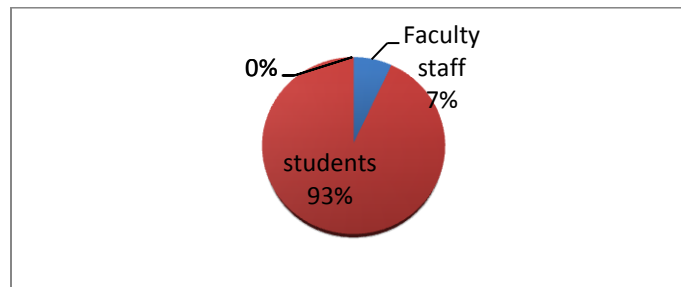


Illustration shows the ratio of faculty staff to students

The Ratio is 1: 14.



# **Curriculum Vitae of Physics Department Members**

1434/1435

2013/2014

## Curriculum Vitae of Physics Department Members

### Dr. Thamer Alharbi



Assistant Professor  
Physics Department  
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#### Research Interests:

Radiation Detectors

Nuclear accelerators

Half-lives of excited states

#### Language Skills

Arabic, English

#### Qualification (Career and University Education)

2006	B. Sc. Degree	Qassim University, Kingdom of Saudi Arabia
2009	M.Sc. Degree	Surrey University, England
2013	Ph.D Degree	Surrey University, England

#### Career

2013-Present	Assistant Professor at Department of Physics , College of Science, Majmaah University , Saudi Arabia
2013-Present	Head of Physics Department , College of Science, Majmaah University , Saudi Arabia
2013- Present	Vice Dean of scientific research and postgraduate studies

#### Publication

1. Gamma-ray Fast-Timing Coincidence Measurements from the  $^{18}\text{O}+^{18}\text{O}$  Fusion-Evaporation Reaction Using a Mixed LaBr<sub>3</sub>-HPGe Array; Applied Radiation and Isotopes, Volume 70, Issue 7, July 2012, 1337-1339.
2. Electromagnetic transition rates in the N=80 nucleus  $^{138}\text{Ce}$ ; Phys. Rev. C. 87, 014323, (2013).
3. Electromagnetic Transition Rate measurements in the N=80 Isotone,  $^{138}\text{Ce}$ ; J. Phys.: Conf. Ser. 381, 012057 (2012)
4. Half-life of the I=4<sup>-</sup> Intruder State in  $^{34}\text{P}$ : M2 Transition Strengths Approaching the Island of Inversion; Phys. Rev. C 85, 064303 (2012).
5. Half-life of the I= 4<sup>-</sup> Intruder State in  $^{34}\text{P}$  Using LaBr<sub>3</sub>: (Ce) Fast Timing; Phys.: Conf. Ser. 381 012063 (2012).
6. Half-life of the  $^7\text{Li}$ -induced reactions for fast-timing with LaBr<sub>3</sub>: Ce detectors; AIP Conf. Proc. 1491, pp 93-96 (2012).
7. Half-life of the yrast 2<sup>+</sup> state in  $^{188}\text{W}$ : Evolution of deformation and collectivity in neutron-rich tungsten isotopes, Phys. Rev. C. 88, 044301 (2013)
8. Half-life Measurements of Excited states in  $^{132}\text{Te}$  and  $^{134}\text{Xe}$ , Acta Physica Polonica B Vol. 44 (2013).

#### Teaching Experience

Nuclear Physics I	Phys. 481	Majmaah University
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#### Conferences

IOP Nuclear Physics	England	19/ 4/ 2010
Nuclear Isomers: Structure and Applications	England	21/5/2010
Nuclear Physics	Poland	6/9/2010

Nuclear Structure Challenges with Radioactive Beams	Turkey	14/9/2010
PRESPEC Decay Physics	England	12/1/2011
Nuclear and Particle Physics Divisional	England	7/4/2011
IRRMA-8 Industrial Radiation and Radioisotope Measurement Applications	USA	26/6/2011

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#### Practical Skills

Microsoft Office

Latex Writing

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### Prof. Dr. Abdul MAJID Abdul Majeed



Professor

Department of Physics

Faculty of Science,

Al-Zulfi - 11932

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#### Research Interests:

Nanostructure synthesis and Characterization



Nanostructured device fabrication and Characterization

Semiconductor materials and devices (3<sup>rd</sup> Generation Solar Cells)

## Language Skills

English (R,W,S), Urdu (R,W,S), Punjabi (R,W,S) and Arabic (R,W)

## Qualification (Career and University Education)

1983	B. Sc. Degree (Physics, Pure Mathematics, Applied Mathematics)	University of Punjab, Lahore. Pakistan
1986	M.Sc. Degree (Physics)	University of Peshawar, Peshawar, Pakistan.
2006	PhD Degree (Semiconductor Physics)	Quaid-i-Azam University, Islamabad, Pakistan Title: <i>Study of Deep Levels Associated with some Heavy Transition-Metals in MOCVD GaAs.</i> Supervisor: <b>Dr. M. Zafar Iqbal</b> (Meritorious Professor).
2009	Post Doctorate ( <i>Nanotechnology</i> ,)	Department of Electronic Materials Engineering (EME), Research School of Physical Sciences and Engineering (RSPHSE), Australian National University (ANU), Canberra ACT-0200, Australia Title: <i>Experimental Study of Quantum Structured Optoelectronic Devices: Intermediate Band Solar Cells</i> Supervisor: Professor <b>Chennupati Jagadish</b> (Federation Fellow)

## Career

### Full-time Faculty Member

Mar. 26, 2013 – Continue	<i>Professor,</i> Department of Physics, Majmaah University, College of Science, Alzulfi, Saudi Arabia
May 30, 2007 – Mar. 25, 2013 (Continued on Ex-Pakistan Leave)	<i>Professor (BPS-21)</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Jun 24, 2008 – Mar. 26, 2009	<i>Visiting Fellow</i> (Academic) at Australian National University Canberra, Australia. (Post Doctoral Fellowship awarded by Higher Education Commission (HEC) of Pakistan,
Feb. 10, 2007 - May 29, 2007	<i>Professor (BPS-20)</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Aug. 12, 2004 – Feb. 09 2007	<i>Associate Professor</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Feb. 12, 1994 – Aug. 11, 2004	<i>Assistant Professor</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Sep. 21, 1987 – Feb. 11, 1994	<i>Lecturer in Physics</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan

**Experience Administrative (Extra-Responsibilities)**

- Jan. 01, 2009– Mar. 25, 2014      **Chairman**, Department of Physics, University of AJ&K
- Oct. 01, 2009 – Mar. 25, 2014      **Director**, High-tech centralized instrumental Lab.
- Jun. 01, 2009– Mar. 25, 2014      **Incharge/Supervisor**, Nanotechnology/Semiconductor Physics Lab, Department of Physics, University of AJ&K
- Oct. 31, 2006 – Jun 24, 2008      **Additional Controller of Examinations**
- Aug. 15, 2005 – Sept 10, 2012      **Member**, University Affiliation Committee
- Aug. 01, 2005 – Oct. 8, 2005      **Chairman**, University Technical Committee: Equipment
- Aug. 08, 2004– Oct. 8, 2005      **Chairman**, University (AJ&K) Web Site Developer

**Short Visits**

- 
- Jul. 09-16, 2011      **Scanning Electron Microscope:** Jeol JSM-6510LV/JSM-6610LV, One week Training at Jeol Instruments Ltd. Tokyo, Japan

**Publication**

- 2014    M. Fakhar-e-Alam, Shubana Rahim, M. Atif, M. Hammad Aziz, M. Imran Malick, S. S. Z. Zaidi, R. Suleman, Abdul Majid, *ZnO Nanoparticles as Drug Delivery Agent for Photodynamic Therapy*, Laser Phys. Lett. 11, 025601
- 2014    Sajad Hussain, Chuanbao Cao, Waheed S. Khan, Ghulam Nabi, Zahid Usman, Abdul Majid, Thamer Alharbi, Zulfiqar Ali, Faheem K Butt, Muhammad Tahir, Muhammad Tanveer, and Faryal Idress, "*Cu<sub>2</sub>O/TiO<sub>2</sub> nanoporous thin-film heterojunctions: Fabrication and electrical characterization*" Materials Science in Semiconductor Processing (Available online 28 November 2013) <http://dx.doi.org/10.1016/j.mssp.2013.11.018>
- 2012    Nasar Ahmed, A. Majid, M. Rashid, B. Shakeela, Z. Aziz, Ayaz. Arif Khan, M. A. Khan, Naghma Haider and R. H. Siddiqui, *Growth of Zn/ZnO core/shell system supported by indented sites*, (manuscript: submitted to Nano Research Letters)
- 2011    Muhammad Rafique, Matiullah, Saeed Ur Rahman, Said Rahman, Muhammad Ikram Shahzad, Bushra Azam, Ishfaq Ahmed, Abdul Majid & Muhammad Iqbal Siddique - *Assessment of indoor radon doses received by the dwellers of Balakot – NWFP, Pakistan: a*

- pilot study*, Carpathian Journal of Earth and Environmental Sciences, 6, 133-140.
- 2010 A. Majid, C. Jagadish, L. Fu and H. Tan, *MOCVD grown Quantum Dot-in-a-Well Solar Cells*, Key Engineering Materials, 442, p-398-403, Trans Tech Publications, Switzerland.
- 2009 Nazir A. Naz, Umar S. Quarashi, A. Majid and M. Zafar Iqbal, *Ruthenium related deep-level defects in n-type GaAs*, Physica B, 404, 4956.
- 2008 M. Zafar Iqbal, A. Majid, Nazir A. Naz and Umar S. Qurashi, *4d transition-metal impurity rhodium in GaAs grown by metal-organic chemical vapor deposition*, J. Appl. Phys., 104, 113708.
- 2008 L. Fu, A. Majid, G. Jolley, S. Mokkaapati, H. H. Tan, and C. Jagadish, *Application of self-assembled quantum dots for optoelectronic devices*, Australia Japan Nanophotonics Workshop ANU, Canberra, December 09-10.
- 2008 Khizar-ul-Haq, M. A. Khan, U.S.Qurashi and Abdul Majid, *Interaction of alpha radiation with iron doped n-type silicon*, Microelectronics Journal 39, 797.
- 2007 Nazir A. Naz, Umar S. Qurashi, Abdul Majid, M. Zafar Iqbal, *Doubly-charged state of EL2 defect in MOCVD grown Gas*, Physica B, 401, 250.
- 2007 Suleman Khan, Naseer Ahmed, Akhlaq Ahmad Khan Amanullah Khan and A. Majid, *Lie Group Analysis of a linear Nonholonomic Dynamical System*, Sci. Int. 19, 83.
- 2007 Abdul Majid, *Efficient Low Level Signal Measuring Instrument Lock-In Amplifier*, Sci. Echo, 15 July.
- 2006 M. Zafar Iqbal, A. Majid, A. Dadgar and D. Bimberg, *Electric-field-enhanced thermal emission from osmium-related deep level in n-GaAs*, Advances in Science and Technology Vol. 46 pp. 73, Trans Tech Publications, Switzerland.
- 2005 A. Majid, M. Zafar Iqbal, A. Dadgar and D. Bimberg, *Osmium Related Deep Levels in MOCVD Grown GaAs*, J. Appl. Phys., 98, 083709.
- 2005 M. Zafar Iqbal, A. Majid, A. Dadgar and D. Bimberg, *Deep Levels in Osmium Doped p-type GaAs Grown by Metal-organic Chemical Vapor Deposition*, 27th International Conference on the Physics of Semiconductors,, Arizona, USA. AIP Conf. Proc. 772, 147.
- 2005 A. Majid, M. Zafar Iqbal, A. Dadgar and D. Bimberg, *Deep Levels in Ruthenium Doped p-type MOCVD GaAs*, 27th International Conference on the Physics of Semiconductors, Arizona, AIP Conf. Proc. 772, 143.
- 2003 A. Majid, M. Zafar Iqbal, A. Dadgar and D. Bimberg, *Deep Levels in Rhodium-Doped p-type MOCVD GaAs*, Physica B, 340, 362.

- 2003 M. Zafar Iqbal, A. Majid, A. Dadgar and D. Bimberg, *Osmium Related Deep Levels in n-type GaAs*, Physica B, 340, 358.
- 2003 A. Majid, M. Zafar Iqbal, Shah Haidar Khan, Akbar Ali, Nasim Zafar, A. Dadgar and D. Bimberg., *Characteristics of Deep Levels Associated with Rhodium Impurity in type GaAs*, J. Appl. Phys., 94, 3115.
- 2001 M. Zafar Iqbal, A. Majid, Shah Haidar Khan, Akbar Ali, Nasim Zafar, A. Dadgar and D. Bimberg., *Rhodium Related Deep Levels in n-type MOCVD GaAs.*, Physica B, 308, p816-819.
- 1999 M. Zafar Iqbal, U. S. Qurashi, A. Majid, Aurangzab Khan, Nasim Zafar, A. Dadgar and D. Bimberg., *Deep Levels Associated with Alpha Irradiation of n-type MOCVD InP*, Physica B, 273, 839.
- 1997 A. Majid, A. Hussain and M. A. R. Khan, *Determination of Optical Constant and Thickness of  $Zn_{0.9}Cd_{0.1}S$  Thin Films*, Kashmir Res. J. N. Sci., Vol 1 (1), 27.
- 1997 A. Majid and G. A Khan, *A Proposed Automated Computerized Hall Profiling System for Characterization of Semiconductor Materials*, Kashmir Res. J. N. Sci., Vol 1 (2), 87.
- xxxx Abdul Majid, *Effect of lambda correct electric field on emission rates of osmium related deep level in n-type Gas* (Manuscript ready for submission).
- xxxx A.Majid, C. Jagadish, L. Fu. and H. Tan, *Luminescence behaviour of MOCVD grown 10 layers Quantum Dot and quantum Well in GaAs*, (to be submitted in Physica Status Solidi - Rapid Research Letters)
- xxxx A.Majid, L. Fu. H. Tan and C. Jagadish, *Comparison of MOCVD grown AlGaAs and InGaAs Dot-in-a-Well Intermediate Band Solar Cells*, (manuscript in process for Applied Physics Letters)

#### Conference Presentations

- Nov. 07-11, 2010 Fu, L. Jolley, G. Lu, H.F. Majid, A. Tan, H.H. Jagadish, C., ***Temperature effect on device characteristics of InGaAs/GaAs quantum dot solar cell***, 23rd Annual Meeting of the IEEE Photonics Society, 2010, Denver, CO,.
- Dec. 14-16, 2009 Fu, L. Jolley, G. Mokkaapati, S. Majid, A. Lu, H.F. Tan, H.H. Jagadish, C. ***III-V quantum dots for optoelectronic device applications***, International Conference on Computers and Devices for Communication, 2009 (CODEC 2009). Kolkata Print ISBN: 978-1-4244-5073-2 INSPEC Accession Number: 11136798, Date of Current Version: 05 February 2010.
- Dec. 09–11, 2009 L. Fu, G. Jolley, A. Majid, S. Mokkaapati, H. H. Tan, and C. Jagadish, ***Application of self-assembled quantum dots for optoelectronic devices***, International Conference on Advanced

Nanomaterials and Nanotechnology (ICANN-2009) Guwahati, Assam (India),.

- Jun. 26-31, 2002 **A. Majid**, M. Zafar Iqbal, Akbar and Ali, *A Hole Emitting Metastable Defect in n-type GaAs*, presented at 27<sup>th</sup> International Nathiagali Summer College; Nathiagali, NWFP, Pakistan.
- Jun. 26-31, 2002. **A. Majid**, M. Zafar Iqbal, Akbar and Ali *Extended Defect of Rhodium in MOCVD Grown n-GaAs*, presented at 27<sup>th</sup> International Nathiagali Summer College; Nathiagali, NWFP, Pakistan.
- Jul. 02- 08, 2001 **A. Majid**, M. Zafar Iqbal and Akbar Ali, *Investigation of Rhodium Related Deep Levels in MOCVD Grown n-GaAs*, presented at 26<sup>th</sup> International Nathiagali Summer College; Nathiagali, NWFP, Pakistan.
- Nov. 20-22, 2000. **A. Majid**, S. H. Khan, M. Zafar Iqbal and Akbar Ali, *Deep Level Transient Spectroscopy of Rhodium Doped n-GaAs*, presented at 8<sup>th</sup> National Symposium on “Frontiers in Physics”, Govt. College University, Lahore.
- Nov. 20-22, 2000 S. H. Khan, **A. Majid**, M. Zafar Iqbal and Akbar Ali, *Field Effect on Thermal Electron Emission from Rhodium in n-GaAs*, presented at 8<sup>th</sup> National Symposium on “Frontiers in Physics”, Govt. College University, Lahore.

#### Teaching Experience

<b>Semiconductors</b>	PHYS473	BS Physics	<b>Majmaah University, College of Science, Al-Zulfi, Saudi Arabia.</b>
<b>Solid State Physics</b>	PHYS471	BS Physics	<b>Majmaah University, College of Science, Al-Zulfi, Saudi Arabia.</b>
<b>Method of Mathematical Physics</b>	PHYS203	BS Physics	<b>Majmaah University, College of Science, Al-Zulfi, Saudi Arabia.</b>
<b>Solid State Physics</b>	PHY-5602	M.Sc. Physics.	<b>University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan</b>
<b>Physics Lab-VI: Solid State Physics</b>	PHY-5606	M.Sc. Physics.	<b>University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan</b>
<b>Elective Advance Course-I: :(Solid State Physics): Band Theory of Solids</b>	PHY-636	M.Sc. Physics.	<b>University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan</b>
<b>Elective Advance Course-II :(Solid State Physics) Dielectric and Magnetics properties of Solids</b>	PHY-646	M.Sc. Physics.	<b>University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan</b>
<b>Elective Advance Course-Composite Advance topics in Solid State Physics</b>		M.Sc. Physics.	<b>University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan</b>

**(Research Students)**

Physics of Semiconductors	PHY-7105	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Physics of Semiconductors Devices	PHY-7205	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Nanoscience and technology	PHY-7214	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Electrodynamics.	PHY-7102	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Material Studies Of Electron Emission	PHY-7211	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Defects In Materials And Measuring Techniques	PHY-7212	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Surface Science And Scanning Techniques	PHY-7213	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan

**Supervision of Research Students:****Ph.D. Research Thesis: (Listed as Enrolment Year)**

- 2012** Nasar Ahmed, *Synthesis and characterization of Metal Oxide Core/shell system for drug delivery.* (Status: Research work in progress)
- 2012** Muhammad Rashid Khan, *Doping effect of transition metals in ZnO tetrapods for device fabrication.* (Status: Research work in progress)
- 2011** Muhammad Athair, *Optical Properties of Quantum Structured Semiconductor Materials for Solar Cells.* (Status: Research work in progress)

**M. Phil. Research Thesis: (Listed as Enrolment Year)**

- 2012** Khurrum Shahzad, *Study of Chemical Vapour Deposition (CVD) System for fabrication of Zinc Oxide nanostructures* (Status: Research work in progress)
- 2012** Majid Khalil, *Characterization of thermally annealed ZnO nano-structures* (Status: Research work in progress)
- 2012** Shahbana Raheem, *Biomedical applications of ZnO nanoparticles* (Status: Research Lab work completed Thesis write-up in progress)
- 2012** Bushra Aziz, *Irradiation Effect on ZnO Nano Structures* (Status: Thesis submitted for evaluation)
- 2011** Muhammad Iftikhar, *n-ZnO/p-Si Based junction Diode and its Characteristics* (Status: Thesis submitted for evaluation)
- 2011** Nasar Ahmed, *Fabrication and Characterization Zn/ZnO Core/Shell System* (Status: Completed/Awarded)
- 2011** Muhammad Rashid Khan, *Catalyst Assisted Growth and Characterization of ZnO Nano-Structures* (Status: Completed/Awarded)

2011 Shakeela Bibi (in progress), *Dark Current Analysis of Quantum Dot Intermediate Band Solar Cell*, (Status: Completed/Awarded)

2011 Zubia Aziz (in progress), *Study of Nanoporous Anodic Aluminium Oxide* (Status: Completed/Awarded)

#### M.Sc. Student's Reports:

2012 M. Umar Fayaz, *Characterization of Cobalt doped ZnO nanoparticle*

2012 Usman Hamza and Tousef Ahmed, *Characterization of Cadmium doped ZnO Tetrapods.*

2011 Atif Bashir, *Synthesis and Characterization of Metal doped ZnO nano particles.*

2011 Jan Muhammad, *Study of size dependent parameters on Synthesis of Copper doped ZnO nano particles*

2009 Mohammad Habib Yasin and Mohammad Asif Latif, *Effect of Etching Parameters on Porosity of Fabricated Porous Silicon.*

2009 Ghazala Razaq, Raqia Khatoon and Mizrah Tariq, *Optical properties of thermally annealed chlorine doped  $Zn_{0.2}Cd_{0.8}S$ .*

2008 M. Rashid Khan, Raja Kurram Shazad and Wajid Taj, *Fabrication of Porous p-type Silicon.*

2007 Muhammad Yousaf, *Energy Band Structure of Carbon Nanotubes using Atomistix Virtual Nano Lab.*

2007 Saeed-ul Hassan Gilani, *Fabrication of porous on n-Type Silicon.*

2007 Ishtiaq Ahmed and Naeem Akhtar, *Study of Organic Light Emitting Diode.*

2007 Darakhshanda Jabeen, *Study of Fabrication of porous on p-Type Silicon.*

2006 Habib-ur-Rehman, *Study the Formation Porous Silicon.*

2006 Khalid Mehmood, *Fabrication & Characterization of Carbon Nanotubes.*

2006 Zulqar-Nain Habib, *Fabrication and Characterization of Metal Nanotubes.*

2006 Mohsin Rafique, *Study and numerical calculation of electronic structure of Si.*

2006 Tariq Aziz, *Study of electronic structure of GaAs with the help of Density Function Theory.*

1996 Akhtar Hussain and M. Abdul Rauf Khan, *Optical Properties of Chlorine Doped  $Zn_{0.9}Cd_{0.1}S$  Thin Films.*

1992 Akram-ul-Haq, *Optical Properties of  $Zn_xCd_{1-x}S$  Thin Films Evaporated by Electron Bombardment.*

1990 Nigahat G. M. and Fauzia Tayyab, *Temperature Dependent Electrical Conductivity of Doped Germanium.*

1990 Ajaz Hassan Raza, *Temperature Dependent Hall Effect of Doped Germanium.*

1989 Abdul Hamid Khan, *Measurement of Lattice Parameters of Potassium Bromide by X-Ray Diffraction.*

1989 Muhammad Rafique, *Study of Lattice Parameters of Sodium Chloride.*

1989 Najam-ul Hassan, *Determination of Lattice Parameters of Potassium Iodide by X-Ray Diffraction.*

#### Projects/Reports:

2010-2011 AJ&K University research support project - *Fabrication and Characterisation of Porous Silicon. (In progress)*



2010-2011	HEC project maintenance of Scientific equipments (Scanning electron microscope: Jeol JSM-6510LV) (Done final report submitted).
2008-2009	Post Doctoral Research Report on <i>Experimental Study of Quantum Structured Optoelectronic Devices: Intermediate Band Solar Cells</i> , Submitted in partial fulfilment of requirement of postdoctoral fellowship of Higher Education Commission (HEC) of Pakistan/Australian National University (ANU) Department of Electronic Materials Engineering (EME), Research School of Physical Sciences and Engineering (RSPHysSE), Canberra ACT-0200, <b>Australia</b>
1995-1996	University/ U.G.C. Project - <i>Characterisation of some Technologically important Materials in Thin Films form</i> (done and facilitated the two M.Sc. research projects).
1999-2005	Commission of European Communities project No. CI1-CT93-0076. A partially supported for Collaborative <i>Study on Transition Metal Doped III-Vs Compound Semiconductors</i> (Done as research project of Ph.D.)
xxxx	HEC Infrastructure Facilities project: Provision of Liquid Nitrogen Plant: <i>A Basic Infrastructure for Experimental Sciences "Cryogenics, Key to Advanced Science and Technology"</i> (submitted via UAJK).

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#### Training Experience

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Mar. 10-13, 2011	Sputter coater: Jeol JFC-1600
Jun 15-20, 2010	Fourier Transform Infrared Spectrometer: Perkin Elmer Spectrum 100 with ATR
May 23-26 2010	UV-Visb-IR Spectrometer: Perkin Elmer Lambda-950
Computer Courses:	
Oct. 1989 - Jan. 1990,	FORTTRAN-77, Computer Centre, Azad Jammu and Kashmir University (AJ&KU), Muzaffarabad, Pakistan.
Jan. 1987 to Aug. 1987	Computer Orientation, P.O.F. Welfare Computer Centre, Wah Cantt, Pakistan.
Technical Courses:	
Oct. 1983 to May 1984,	Electrician Course, Allama Iqbal Open University, Islamabad, Pakistan.
Oct. 1982 to May 1983,	Electrical Wiring, Allama Iqbal Open University, Islamabad, Pakistan.
Jun. 1977 to Jan. 1978,	Photography, London Institute of Photography (Pvt), Karachi, Pakistan.



### **Conferences/ Seminar Organized**

- June 08, 2011      Seminar on “*Vacuum Science and Technology*”, University of Azad Jammu and Kashmir, Muzaffarabad.
- April 12-14, 2004    *Tutorial Course and Symposium on Topics in Semiconductors*, Quaid-i-Azam University, Islamabad, Pakistan.
- April 15-17, 2004    *Workshop on Nanotechnologies*, Quaid-i-Azam University, Islamabad, Pakistan.
- April 08-10, 1999    *Tutorial Course and Symposium on Topics in Semiconductors*, Quaid-i-Azam University, Islamabad, Pakistan.

### **Computer Experience Application Programmes**

Microsoft Windows, Origin, Sigma Plot, Microsoft Excel, Microsoft Word, Microsoft Power Point, Corel Draw, Adobe PhotoShop, Home suite, Netscape composer etc.

### **Membership of Scientific and Technical Societies**

- Life member Pakistan Institute of Physics (PIP), Lahore, Pakistan.
- Life member Pakistan Society for Semiconductor Science and Technology (PS<sup>3</sup>T), Quaid-i-Azam University, Islamabad; Pakistan.
- Member Pakistan Physical Society (PPS). Islamabad; Pakistan.
- Associate Member, Institute of Nanotechnology (IoN), USA.
- Member Test and Technology Technical Council (tttc), USA, a sister society of IEEE, USA.
- Member, The Australian Research Council Nanotechnology Network (ARCNN), Australia.

## Pro. Dr. Mohamed Ali Zaidi



Full Professor  
Physics Department  
Faculty of Science, Zulfi  
Majmaah university

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### Research Interests:

- Solid state physics and semiconductors.
- Theoretical study and electrical characterization of electrically active defects in semiconductors by technical DLTS (Deep Level Transient Spectroscopy), C (V), I (V) and G ( $\omega$ ).
- \_ Photovoltaic cells
- \_ Quantum Mechanics

### Language Skills

Arabic- English – French

### Qualification (Career and University Education)

B. Sc. Degree (Physics)	" Good" Faculty of Science of Tunis, Tunis University
MS. C. Degree (Mathematics)	" Good" Physics of semiconductor Central School of Lyon France
PhD Degree (Physics)	" Right Honorable " <u>Internal</u> part at Faculty of Science of Tunis, Tunis University External part Laboratory of Solid Physics group, University of Paris VI Jussieu Paris France

### Career

\_\_ Full Professor Faculty of Science of Monastir University of Monastir Tunisia  
01/9./2001 to now

\_\_ Head of department of physics Faculty of Science of Monastir University of Monastir Tunisia 01/7./2008 to 31/08/2011

\_\_ Associated Professor Faculty of Education in Salalah Oman 10/30/1998 to 01/09/2001

\_\_ Head of Unit Physics Faculty of Education in Salalah Oman 10/30/1998 to 01/09/2001

\_\_ Associated Professor Faculty of Science of Monastir University of Monastir Tunisia 10/03/1993 to 30/10/1998

\_\_ Assistant Professor Faculty of Science of Monastir University of Monastir

Tunisia 01/15/1989 to 03/10/1993.

\_\_Assistant Faculty of Science of Monastir University of Monastir Tunisia  
10/20/1982 to 01/15/1989

\_\_Professor of the Higher Institute of Mathematics Sousse University of Sousse  
Tunisia 01/10./2011 to 01/23/2013

\_\_Full Professor Higher Institute of Military Sousse Tunisia 01/09./2002 to  
30/06/2005

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#### Short Visits

\_\_A working visit to France in Lille laboratory IEMN Lille (France) for a week in the scope of a contract CMCU between Tunisia and France I was the Head of Mission.

\_\_A working visit to France in Lyon LPM for a week in the scope of a contract CMCU between Tunisia and France. I was the Head of Mission.

\_\_Working visit to Morocco in Mohammedia School of Science and Technology for a week in the scope of a contract between Tunisia and Morocco, I was the Head of Mission

\_\_ Post doc (6 months) L PM Laboratory INSA of Lyon France

\_\_ Post doc (6 months) Laboratory of Solid Physics Group Paris VI University Jussieu France

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#### Publication

**1-Direct-current and radio-frequency characteristics of passivated AlGa<sub>N</sub> / Ga<sub>N</sub> / Si high electron mobility transistors.**

•H. Mosbahia, M. Gassoumi, Houcine Mejri,, C. Gaquièred •M.A. Zaidi, H. MaarefCurrent Applied Physics Current Applied Physics 2013•

**2-Deep traps responsible for capacitance hysteresis in AlGa<sub>N</sub> / Ga<sub>N</sub> FAT-HEMT's**

M. Charfeddine M. A. Zaidi, H. Maaref JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol. 17, No.7-8, July - August 2013, p. 130 - 135

**3-Numerical Investigation of Kink Effect Correlated with Defects in AlGa<sub>N</sub> / Ga<sub>N</sub> High Electron Mobility Transistors.**

M. Charfeddine, M. A. Zaidi and H. Maaref

Journal of Computational and Nanoscience Vol. 10, 1-7, 2013

**4- Analysis of Deep Levels in AlGa<sub>N</sub> / Ga<sub>N</sub> High Electron Mobility Transistor on Si Substrate Using Capacitance DeepLevel Transient Spectroscopy**

M. Charfeddine H. Mosbahi, MA Zaidi, and H. Maaref Advanced ScienceEngineering and Medicine Vol. 5, pp. 1 to 4.2013

**5- -Direct-current and radio-frequency characteristics of passivated AlGa<sub>N</sub> / Ga<sub>N</sub> / Si high electron mobility transistors**

H. Mosbahi, M. Gassoumi, Imen Saidi, Houcine Mejri C. Gaquière M.A.Zaidi H. Maaref Current Applied Physics 13 (2013) 1359-1364

**6-Effect of surface passivation by Si<sub>N</sub>/SiO<sub>2</sub> of AlGa<sub>N</sub> / Ga<sub>N</sub> high-electron mobility transistors on Si**

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substrate by deep level transient spectroscopy method

Malek GASSOUMI \*, Hana MOSBAHI, Mohamed Ali ZAIDI, Christophe GAQUIERE, Hassen MAAREF  
Journal of Semiconductors, Volume 47, Issue 7. (2013)

7-Critical behavior in Fe-doped manganites  $\text{La}_{0.8}\text{Ba}_{0.2}\text{Mn}_{1-x}\text{Fe}_x\text{O}_{3-x}$  = 0.15 and  $x = 0.2$

S.Ghodhbane, A.Dhahri. N.Dhahri, J.Dhahri, M.A.Zaidi Journal of Alloys and Compounds Journal of Alloys and Compounds

8- 2-D Theoretical Model for Current-Voltage Characteristics in AlGaIn/GaN HEMT's.

Charfeddine, Manel; Belmabrouk, Hafedh; Zaidi, Mohamed Ali; Maaref, Hassen  
Journal of Modern Physics (21531196) . Aug2012, Vol. 3 Issue 8, p881-886. 6p.

9- Electrical characterization of AlGaIn/GaN HEMTs ON Si substrate

H. Mosbahia, M. Gassoumia,, H. Mejrib , M. A. Zaidi, C. Gaquiere, H. Maaref  
Journal of Electron Devices, Vol. 15, 2012, pp. 1225-1231

10- Theoretical investigation of kink effect with deep defects and temperature in AlGaIn/GaN HEMTs

M. CHARFEDDINE<sup>a\*</sup>, H. MOSBAHI<sup>a</sup>, M. A. ZAIDI<sup>a,b</sup>, H. MAAREF<sup>a</sup> Journal of Electron Devices, Vol. 15, 2012, pp. 1225-1231

11- Poole-Frenkel assisted emissions from a barrier trap in AlGaIn / GaN / Si HEMTs"

Malek GASSOUMI, Houcine MEJRI, Christophe GAQUIERE, Mohamed Ali ZAIDI, Hassen MAAREF  
Journal of Electron Devices, Vol. 11, 2011, pp. 538-54

12- Electrical Characterization of Traps in AlGaIn / GaN FAT-HEMT's on Silicon Substrate by CV and DLTS Measurements

Manel Charfeddine, Malek GASSOUMI \*, Hana Mosbahi, Christophe Gaquière, Mohamed Ali Zaidi1, Hassen Maaref. Journal of Modern Physics, Vol. 2 (10), p. 1229 (2011)

13- Electron traps studied in AlGaIn / GaN HEMT on Si substrate using capacitance deep level transient spectroscopy.

H. MOSBAHI, M. GASSOUMI, M. CHARFEDDINE, M A. ZAIDI, C. GAQUIERE, H.MAAREF  
Journal of Optoelectronics and Advanced Materials Vol.12 (11), (2010)

14- Deep levels in AlGaIn/GaN HEMTs on silicon substrate are characterized by current deep level transient spectroscopy

H. MOSBAHI, M. GASSOUMI, C. GAQUIERE, M. A. ZAIDI, H. MAAREF *Optoelectronics and Advanced Materials – Rapid Communications*, Vol 4(11); (2010), p. 1783

15- Deep levels in AlGaIn / GaN HEMTs on silicon substrate are characterized by current deep level transient spectroscopy.

.MOSBAHI, M.GASSOUMI, C.GAQUIERE, M.A.ZAIDI, and H.MAAREF  
MADICA 2010», Tabarka (Tunisie)

**16- Investigation of deep levels in AlGaIn/GaN HEMTs on silicon substrate by conductance deep level transient spectroscopy**

**H. Mosbahi, M. Gassoumi, M. Charfeddine, C. Gaquiere, M.A. Zaidi, H. Maaref**  
Design and Technology of Integrated Systems in Nanoscale Era (DTIS), 2010 5th International

**17- Deep level investigation by capacitance and conductance transient spectroscopy in AlGa<sub>N</sub>/Ga<sub>N</sub>/SiC HEMTs**

M. GASSOUMI, B. GRIMBERT, M. A. POISSON, . FONTAINE, M. A. ZAIDI, C. GAQUIERE JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 11, No. 11, November 2009, p. 1713 - 1717

**18- AlGa<sub>N</sub> / Ga<sub>N</sub> / Si HEMT's and capacitance deep level transient spectroscopy (DLTS) • H. Mosbahi, M. Gassoumi, M.A. Zaidi, C. Gaquiere, H. Maaref International Meeting on Materials for Electronic Applications, IMMEA 2009**

**19-Electronic properties of multi-quantum dot structures in Cd 1-xZn xS alloysemiconductors. Safta, N., Sakly, A., Mejri, H., Zaïdi, M.A. European Physical Journal B 53 (2006)**

**20- Effects of high doping on the bandgap bowing for Al<sub>x</sub>Ga<sub>1-x</sub>N**

Safta, N. Mejri, H. Belmabrouk, H. Zaïdi, M.A. *Microelectronics Journal* (2006) 37 (11) PP. 1289 - 1292

**21- Electric field effect on the electron emission from Te-DX in Al<sub>x</sub>Ga<sub>1-x</sub>As**

L. Bouzrara, R. Ajjel, H. Mejri, M.A. Zaidi, H. Maaref  
Materials Science and Engeneering C 26 (2006) 580-582

**22- Alloy splitting of Te-DX in Al<sub>x</sub>Ga<sub>1-x</sub>As analysis using the deep level transient spectroscopy technique**

L. Bouzrara, R. Ajjel, H. Mejri, M.A. Zaidi, H. Maaref  
Microelectronics Journal 37 (2006) 586-590

**23- “ Excitonic recombination processes in GaAs grown by close space vapor transport ”**

L. Bouzrara, R. Ajjel, H. Mejri, M.A. Zaidi, S. Alaya, J. Mimila-Arroyo, H. Maaref  
Microelectronics Journal 35 (2004) 577-580

**24- Electron traps in metal organic chemical vapor deposition grown Ga<sub>1-x</sub>Al<sub>x</sub>As .**

R Ajjel, L. bouzrara , M.A.Zaidi, H.Maaref and G.Bremond,  
Physica (B).15-19 (2003).

**25- Poole Frenkel assisted emission from donor level Chromium doped GaP.**

R Ajjel, M.A.Zaidi, G.Bremond, G.Guillot and J.C.Bourgoin.  
.Applied. Phys. Lett. 72,302 (1998)

**26- The Dx Center in GaAsP alloys**

M.M.Ben Salem, M.A.Zaidi, M Zazoui, H Maaref and J.C.Bourgoin  
Phys.State.Sol.(b) 209, 363-374 (1998)

**27- Deep level analysis of n type in GaAl<sub>1-x</sub>P<sub>x</sub> alloys.**

M.M.Ben Salem, M.A.Zaidi, H Maaref and J.C.Bourgoin  
J.Applied.Phys. 78,4004 (1995).

**28- Defects in electron GaAlAs alloys**

M.A.Zaidi, H.Maaref, M.Zazoui and J.C.Bourgoin

. J.Applied.Phys. 74,284 (1993)

**29- Defects in electron GaAlAs alloys**

M.A.Zaidi, H.Maaref, M.Zazoui and J.C.Bourgoin  
J.Applied.Phys. 74,284 (1993)

**30- Hole capture cross section of  $D_x$  centers in  $Ga_{1-x}Al_xAs$ .**

M.A.Zaidi, H.Maaref, M.Zazoui and J.C.Bourgoin  
23 Phys. Rev. B 44, 7987 (1991)

**30- Defects in electron irradiated n –type GaP and GaInP.**

M.A.Zaidi, H Maaref, M.Zazoui and J.C.Bourgoin  
Materials Science Forum Vol.143-147 (1994)

**31- Defects in electron irradiated GaInP**

J.Kryniki, M.A.Zaidi, M.Zazoui, H.Maaref, J.C.Bourgoin, M.Diforte Poisson, Chrynlinsky, SL.Delage and H.Blank  
J.Applied.Phys. 74,260 (1993)

**32- Recombination Centers in Czochralski grown p type .**

M.Zazoui , M.A.Zaidi, J.C.Bourgoin and G.Stroobl  
J.Applied.Phys. 74,3944 (1993)

**33- Minority carrier cross section of the EL2 defects in GaAs.**

M.A.Zaidi, H.Maaref, and J.C.Bourgoin Applied. Phys.Lett.  
(1992)

**34- Poole Frenkel emission deep levels in electrons Germanium.**

M.A.Zaidi, H.Maaref and J.C.Bourgoin  
Semicond. Science Technol. 4, 93(1989)

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**Teaching Experience**

Classical mechanics		
Electromagnetism		
Electronics		
Electrostatic		
Magnetostatic		
general physical		
modern Physics		
optical instruments		
Geometric optics		
Mathematics		

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Physical optics		
Relativity		
Waves and vibrations		
Quantum Mechanics 1		
Quantum Mechanics 2		
Fluid mechanics		
Semi-conductor		
Properties of matter		
Electrical characterization of components		
Physics of Solids I		
Physics of Solids II		
Group theory		
Quantum Mechanics 3		
Mathematics		

#### Training Experience

Training "Deep level transient Spectroscopy " Monastir University , Tunisia

Training "Optical Deep level transient Spectroscopy ", INSA of Lyon France

Training " Electron beam processing or electron irradiation ", University Paris V France

#### Conferences

Tunisia France Physics Conference 2000

Conference on Semiconductor and applications 2004

Conference "missing mass" 1993

#### Practical Skills

Degree in Mathematics

the French language

Computer

## Dr. Mohammad kheare Abu Shayeb



Associated Professor  
Physics Department  
Faculty of Science, Zulfi

Majmaah university

<b>Street Address:</b>		<b>Mailing Address:</b>
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Office:		Room S1459
Link to Homepage: <a href="http://faculty.mu.edu.sa/">http://faculty.mu.edu.sa/</a>		

### Research Interests:

Experimental high energy physics  
Quark gluon plasma  
Heavy ion Interactions

### Qualification (Career and University Education)

<b>Ph.D in (Physics )</b>	<b>)High Energy Physics</b>	<i>University of Rajasthan-Jaipur-INDIA-awarded on March 2003</i>
M.Sc (Physics)	<b>Nuclear Physics</b>	<i>Dr. B. S Marathwada University- Aurangabad – India, awarded on Apr 1996. Placed in Second Division.</i>
B.Sc (Physics)	<b>Physics</b>	<i>Dr. B. S Marathwada University- Aurangabad – India, awarded on Apr 1996. Placed in Second Division.</i>

### Employment

2011-2014 **Associated professor ( Al Majmaah University)KSA**

2011-2011, July **Dean of science faculty (al-Hussein Bin talal University)**

2011 **Associated professor (al Hussein bin talal university)**

2010-2011 **Vice Dean of Science faculty Al-Hussein B T U, Ma'an, Jordan**



2008 sep-2009	<b>Dean of Science faculty</b> (acting) <i>Al-Hussein B T U, Ma'an</i>
2004, apr- 2008, Sep	<b>Vice Dean of Science faculty</b> <i>Al-Hussein B T U, Ma'an, Jordan</i>
2008, Apr	<b>Head of Physics department</b> , <i>Al-Hussein B T U, Jordan</i>
2004	<b>Asst Poff</b> , Al-Hussein Bin Talal University, <i>Ma'an, Jordan</i>
2002-2003	<b>Teaching</b> , Granada College affiliated to, Balqa University, <i>Jordan</i>
<b>Industry collaboration</b>	<b>N/A</b>
<b>Patents and proprietary right</b>	<b>N/A</b>
<b>Last Publication</b>	<p>Hanan H. Saleh &amp; <b>Mohammad Abu Shayeb</b>" Natural radioactivity distribution of southern part of Jordan (Ma'an) Soil, <a href="#">Annals of Nuclear Energy</a> (Impact Factor: 0.8). 01/2014; 65:184–189</p> <p><b>Mohammad abu Shayeb</b> (2014) Photon multiplicity distributions for Pb+Pb, Nb &amp; Ni interactions. <i>submitted</i></p>

## Dr. Samir Al-Zobaidi

Assistant Professor  
Physics Department  
Faculty of Science, Zulfi

Majmaah university



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E-Mail:	s.alzobaidi@mu.edu.sa

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<http://faculty.mu.edu.sa/salzobaidi/>

### Research Interests:

Polymer crystallization, characterization, and processing

### Language Skills

Arabic (native), English.

### Qualification (Career and University Education)

1987-1991	B. Sc. Degree (Physics)	College of Science / University of Jordan / Jordan
1992-1994	MS. C. Degree (Physics/Laser and modern spectroscopy)	College of Science / Aligahr Muslim University / India First Division
1996-2002	PhD Degree (Materials Science)	College of Materials Science and Engineering / University of Tennessee / USA.

### Career

2009-2012	<b>Head of physics department</b>	College of science in al-Zulfi / <i>Majmaah University</i> / Saudi Arabia
2006-recent	<b>Assistant Professor</b>	College of science in al-Zulfi / <i>Majmaah University</i> Saudi Arabia
2004-2006	<b>Researcher</b>	Department of design and mechanical technology / <i>Royal Scientific Society (RSS)</i> / JORDAN
2003-2004	<b>Physics Teacher for IGCSE classes,</b>	<i>Rawdat Al-Ma'aref Schools &amp; College</i> / JORDAN

### Short Visits

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**Publication**

Crystallization of ethylene-octene copolymers at high cooling rates. **Wagner, J., Abu-Iqyas, S., Monar, K., and Phillips, P. J.; Polymer (1999), 40(16), 4717-4721.**

The Influence of sequence length distribution on the linear growth of ethylene-octene copolymers. **Annual Technical Conference -Society of Plastics Engineers (1998), 56<sup>th</sup> (Vol. 2), 1516-1520.**

The effect of adding thiacalix[4]arene compound on polypropylene/clay nanocomposite. **The international conference on Materials Science and its Applications “development and Innovation”. Feb. 2012. Taif, KSA.**

Chain-extended Crystals in Ethylene-Octene Copolymers. **American Physical Society (APS). March meeting 2002. Indianapolis, Indiana. USA**

Phase Diagrams and Phase Transformations in Ethylene-Octene Copolymers. **American Physical Society (APS). March meeting 2002. (Poster session) Indianapolis, Indiana. USA**

The Influence of Regime on Band Spacing in an Ethylene Copolymer. **American Physical Society (APS). March meeting 2002. Indianapolis, Indiana. USA**

Crystallization of Polyethylene and its Octene Copolymers Over a Wide Range of Supercooling. **American Physical Society (APS). March meeting 2001. (Poster session) Portland, OR. USA**

The crystallization mechanism of (metallocene) Ethylene-octene copolymer (LLDPE) as a function of the applied pressure. **American Physical Society (APS). March meeting 2001. Portland, OR. USA**

The Influence of sequence length distribution on the linear growth of ethylene-octene copolymers. **Annual Technical Conference -Society of Plastics Engineers (ANTEC) (1998), Atlanta, GA. USA**

“The effect of pressure and temperature on the mechanical properties of polymer/clay nanocomposites” Grant number SR-S-007-040 funded by SABIC. (2007)

“The effect of adding thiacalixarene compounds on the exfoliation and intercalation of polypropylene / clay nanocomposites”. Grant number SR-S-009-040 funded by SABIC. (2009)

“The effect of the digestive juice enzymes on the biodegradation of polyethylene/montmorillonite nanocomposites after its exposure to UV radiation”. Grant number SR-S-009-001 funded by SABIC, (2009).

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**Teaching Experience**

General Physics I	PHYS 201	College of Science / Zulfi	Majmaah University
General Physics II	PHYS 202	College of Science / Zulfi	Majmaah University
Modern Physics	PHYS 351	College of Science / Zulfi	Majmaah University
Modern Physics Lab.	PHYS 494	College of Science / Zulfi	Majmaah University
Electromagnetism Lab.	PHYS 393	College of Science / Zulfi	Majmaah University
Quantum mechanics I	PHYS 352	College of Science / Zulfi	Majmaah University
Quantum Mechanics II	PHYS 453	College of Science / Zulfi	Majmaah University

Atomic and Molecular Physics	PHYS 454	College of Science / Zulfi	Majmaah University
General Physics for medicine and dentistry students	PHYS 145	College of Medicine / Majmaah	Majmaah University
General Physics for medicine and dentistry students	PHYS 145	<b>College of Dentistry / Zulfi</b>	Majmaah University

#### Conferences

**The international  
conference on Materials  
Science and its Applications  
“development and  
Innovation”.**

Taif, KSA

Feb. 2012

**American Physical Society  
(APS).**

Indianapolis, Indiana. USA

March meeting 2002

**American Physical Society  
(APS).**

Portland, OR. USA

March meeting 2001

**Annual Technical  
Conference -Society of  
Plastics Engineers (ANTEC)**

Atlanta, GA. USA

1998

#### Training Experience

“DSC, TGA, DMA Rheology” Annual workshop series presented by TA instruments, Knoxville TN 1999.

“Cambridge international diploma for teachers and trainers” Training course, conducted by Cambridge International Examinations at the British Council, Amman 2003

“ISO/IEC 17025 Application and Requirements” Training course conducted by the Quality Assurance Department/ Royal Scientific Society, Amman, October 2004.

“Innovation Promotion and Technology Commercialization Workshop” A workshop presented by the Royal Scientific Society (RSS), Princess Sumaya University for Technology (PSUT) and the Higher Council for Sciences & Technology (HCST). Amman, Jordan 14<sup>th</sup> and 15<sup>th</sup> September 2005

**A seminar was addressed on the modified atmosphere packaging as part of "The improvement and marketing of the fresh produce" workshop organized by the Central Market-Great Amman Province (Jordan), July 2004.**

“Introduction to electronics” A training course aimed to train high school teachers in Al-Zulfi on how to: identify the different circuit components, connect electric circuits, and measure the electric parameters.

#### Practical Skills

**ICDL**

Optical Microscope, Electron microscopes, FTIR, Mechanical testing machines.

DSC, X-ray Diffraction.

## Assoc. Prof. Dr. Mohamed S. Gaafar

	Associate Professor Mathematics Department Faculty of Science, Zulfi Majmaah university	
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	Office:	Room S 157
Link to Homepage: <a href="http://faculty.mu.edu.sa/mgaafar/">http://faculty.mu.edu.sa/mgaafar/</a>		

### Research Interests:

Materials synthesis and characterization

Ultrasonic, FTIR, XRD (Radial Distribution Function for amorphous materials), Thermal properties using (DSC & DTA) Raman spectroscopy, Polarized light optical microscope and UV-VIS spectrophotometry.

Nano materials

### Language Skills

English (very good reading and writing), Duetsch (little experience in reading and writing) and Arabic (excellent reading and writing).

### Qualification (Career and University Education)

B. Sc. Degree (Biophysics)	B. Sc in Biophysics – Faculty of Science – Cairo University (1993) with grade (Very Good) for the average of 4 years.
MS. C. Degree (Biophysics)	M. Sc in Ultrasonic characterization of materials entitled “Ultrasonic Investigation of Some Rubber Blends for Preparing Ultrasonic Phantom” Faculty of Science-Biophysics Department - Cairo University, (2001).
PhD Degree (Physics )	Ph.D in Ultrasonic characterization of materials entitled "Ultrasonic Velocity and Attenuation Measurements for Characterizing Some Tellurite Glasses", Faculty of Science - Physics Department - Menia University, (2005).

### Career

(1996)	Demonstrator at Department of Ultrasonic, National Institute for Standards – EGYPT, (1996).
(2001)	Assistant Lecturer at Department of Ultrasonic, National Institute for Standards – EGYPT, (2001).
(2005)	Assistant Professor at Department of Ultrasonic, National Institute for Standards – EGYPT, (2005).
(2010)	Associate Professor at Department of Ultrasonic, National Institute for Standards – EGYPT, (2010).
(2010) -	Associate Professor at Department of Physics , Faculty of Science, Majmaah

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Continue university , Saudi Arabia, (2010) - Continue.

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Experiences Training :

1- Travelled to Denmark in 1999 for five months in Technical University of Denmark – Industrial Acoustics Department -Lyngby – Copenhagen, for training on building setup of thermoacoustic sensor and using this system for calibration of ultrasonic transducers.

2- ISO Guide 25, uncertainty, statistics, ultrasound, and in optical measurement.

3- Travelled to Germany, Darmstadt, in a post doc - DFG fellowship September (2007).

4- Travelled to Soul - South Korea 14-29 June 2009 in a training program of National Standards and Precision Measurements.

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Short Visits

1999	Technical University of Denmark – Industrial Acoustics Department -Lyngby – Copenhagen
2007	Germany, Darmstadt, in a post doc - DFG fellowship
2009	KRISS - Soul - South Korea

Publication

1- M. A. Sidkey, A. A. Yehia, N. A. Abd El Malak and M. S. Gaafar, "Compatibility Studies on Some Rubber blend Systems by Ultrasonic Techniques", *Materials Chemistry & Physics*, 74, 23-32, (2002).

2- M. A. Sidkey, A. A. Yehia, N. A. Abd El Malak and M. S. Gaafar, "Elastic Properties of Some Rubber Blends", *Journal of Pure & Applied Ultrasonics*, 23 (3 & 4), 43-50, (2001).

3- M. A. Sidkey and M. S. Gaafar, "Ultrasonic studies on network structure of ternary TeO<sub>2</sub> – WO<sub>3</sub> – K<sub>2</sub>O glass system", *Physica B*, 348, 46-55, (2004).

4- M. A. Sidkey and M. S. Gaafar, "Ultrasonic relaxation of ternary TeO<sub>2</sub> – WO<sub>3</sub> – K<sub>2</sub>O glass system", *Physics and Chemistry of Glasses*, Vol. 45 (1), 7-14, (2004).

5-M. S. Gaafar and S. Y. Marzouk, "Study on Some Physical Properties of Er<sup>3+</sup> doped SiO<sub>2</sub> – Na<sub>2</sub>O – B<sub>2</sub>O<sub>3</sub> Glasses Using Ultrasonic Velocity and FTIR Spectroscopy", *NORBERT KREIDL MEMORIAL International Course and Conference ICC-06, EGYPT*, (2006).

6-M. S. Gaafar and S. Y. Marzouk, "Mechanical and Structural Studies on Sodium Borosilicate Glasses Doped with Er<sub>2</sub>O<sub>3</sub> Using Ultrasonic Velocity and FTIR Spectroscopy", *Physica B*, 388, 294, (2007).

7- S. Y. Marzouk and M. S. Gaafar, "Ultrasonic study on some borosilicate glasses doped with different transition metal oxides", *Solid State Communications*, 144, 478, (2007).

8- M. El-Gazery and M. S. Gaafar, "Modified Reference HS-Block for Directivity Pattern and Resolution Calibration of Contact Probe", *Egypt. J. Meas. Sci. Technol.*, 2, 79-93, (2007).

9-M. S. Gaafar, E. A. El-Sayad, S. Y. Marzouk, "Ultrasonic Study of Cu<sub>x</sub>Ag<sub>1-x</sub>InTe<sub>2</sub> bulk material", *Archives of Acoustics*, 33 (3), 363-372, (2008).

10- M. A. Sidkey; A. Abd El-Moneim; M. S. Gaafar; N. S. Abd El-Aal; L. Abd El-Latif; I. M. Youssef, "Elastic and structural properties of vanadium lithium-borate glasses", *Philosophical Magazine*, 88 (11), 1705-1722, (2008).

11-M. S. Gaafar, Y. B. Saddeek and L. Abd El-Latif, "Ultrasonic Studies on Alkali Borate Tungstate Glasses", *Journal of Physics and Chemistry of Solids*, 70 (1), 173, (2009).

12-M. S. Gaafar, F. H. El-Batal, M. El-Gazery and S. A. Mansour, "Effect of Doping Different Transition Metals on the Acoustical properties of Alkali Borate Glasses", *Acta Physica Polonica A*, 115 (3), 671, (2009).

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- 13- Y. B. Saddeek, M. S. Gaafar, N. S. Abd El-Aal and L. Abd El-Latif, "Structural Analysis of Some Alkali Diborate glasses", *Acta Physica Polonica A*, 116 (2), 211, (2009).
- 14- M. S. Gaafar, N. S. Abd El-Aal, O. W. Gerges and G. El-Amir, "Elastic Properties and Structural Studies on Some Zinc-Borate Glasses derived from Ultrasonic, FT-IR, and X-ray techniques", *Journal of Alloys and Compounds*, 475, 535, (2009).
- 15- M. S. Gaafar; S. Y. Marzouk; H. Mady, "Ultrasonic and FT-IR Studies on  $\text{Bi}_2\text{O}_3 - \text{Er}_2\text{O}_3 - \text{PbO}$  Glasses", *Philosophical Magazine*, 89 (26), 2213-2224, (2009).
- 16- M. S. Gaafar, H. A. Afifi and M. M. Mekawy, "Structural studies of some phospho-borate glasses using ultrasonic pulse-echo method, DSC and IR spectroscopy", *Physica B*, 404, 1668, (2009).
- 17- Y. B. Saddeek and M. S. Gaafar, "Physical and structural properties of some bismuth borate glasses", *Materials Chemistry & Physics*, 115, 280, (2009).
- 18- M. S. Gaafar, L. I. Soliman, S. Y. Marzouk, "Ultrasonic Characterization of  $\text{Bi}_2(\text{Te}_{1-x}\text{Se}_x)_3$  System", *Archives of Acoustics*, 34 (4), 407-417, (2009).
- 19- N. A. Darwish, M. S. Gaafar, N. Abd El-Aal, A. A. Abd El-Megeed, "Investigation of aging effect on the mechanical properties of silicone rubber using ultrasonic, DMA and FT-IR techniques", *Kautschuk Gummi Kunststoffe (KGK)*, in press.
- 20- H. A. Afifi, N. S. Abd El-Aal, M. S. Gaafar, M. M. Mekawy and E. Ali, "Measurement of viscosity using ultrasonic pulse echoe method and cone-plate viscometer", *International Congress On Ultrasonics – ICU*, Santiago – Chili, January 11-17, (2009).
- 21- A. Abo Kandil and M. S. Gaafar, "Effect of different types of carbon black on the mechanical and acoustic properties of EPDM", *Journal of Applied Polymer Science*, 117(3), 1502, (2010).
- 22- Y. B. Saddeek, M. S. Gaafar, Safaa A. Bashier, "Structural influence of PbO by means of FTIR and acoustics on calcium alumino-borosilicate glass system", *Journal of Non-Crystalline Solids*, 356, 1089, (2010).
- 23- H. E. Nasr, M. S. Gaafar, O. Abdel-Kareem, F. Abd El-Aziz, "Morphological, Rheological and Ultrasonic Characterizations of ECO-Friendly Micro-emulsion Lattices Based on Acrylate Monomers", *Journal of American Science*, 6(9), 897, (2010).
- 24- M.A. Nour, M.S. Gaafar, A. Eid, A.A. El-Ebissy, "The effects of nickel chelate of aminopyridineanilide combined with modified clay on flame retardance enhancement of polyethylene composites prepared by ultrasonic irradiation", 14<sup>th</sup> European Conference on Composite Materials, 7-10 June, 2010, Budapest, Hungary
- 25- M. S. Gaafar, Mostafa A. M. Abdeen, S. Y. Marzouk, "Structural investigation and simulation of acoustic properties of some tellurite glasses using artificial intelligence technique", *Journal of Alloys and Compounds*, 509, 3566, (2011).
- 26- A.A. El-Daly, Farid El-Tantawy, A.E. Hammad, M.S. Gaafar, E.H. El-Mossalamy, A.A. Al-Ghamdi, "Structural and elastic properties of eutectic Sn–



Cu lead-free solder alloy containing small amount of Ag and In", Journal of Alloys and Compounds, 509, 7238, (2011).

27- G.E. El-Falaky, M.S. Gaafar, N.S. Abd El-Aal, " Ultrasonic relaxation in Zinc-Borate glasses", Current Applied Physics, 12, 589, (2012).

28- S.Y. Marzouk, L.I. Soliman, M. S. Gaafar, H.A. Zayed, A.H. Serag El-Deen, " Dielectric Properties and Conductivity of Some Alkali Borate Glasses Doped With Cobalt Oxide", Journal of Applied Sciences Research, 8, 2325 (2012).

29- M. S. Gaafar, S. Y. Marzouk, H. A. Zayed, L. I. Soliman, A. H. Serag El-Deen, "Structural studies and mechanical properties of some borate glasses doped with different alkali and cobalt oxides", Current Applied Physics, 13, 152, (2013).

30-Y. B. Saddeek, M. S. Gaafar, "Study of the rigidity of semi-conducting vanadate glasses and its importance in the use of coatings", Bull. Mat. Sci., 37(3), 661, (2014).

31-M. S. Gaafar, Y. A. Azzam, "Acoustic Relaxation of Some Lead Niobium Tellurite Glasses", Bull. Mat. Sci., Under review (2013).

32-M. S. Gaafar, A. El-Wakil, M. Yousuf, "Study of the effect of radiation and frequency on the electrical properties and ultrasonic properties of polyethylene", Archives of Applied Science Research, 5(2), 158, (2013).

33-R. El-Mallawany, M. S. Gaafar, Y. A. Azzam, "Prediction of Ultrasonic parameters at low temperatures for Tellurite glasses", Chalcogenide Letters, 11(5), 227, (2014).

34-R. El-Mallawany, M. S. Gaafar, N. Veeraiah, "Calculated Bulk Modulus and Poisson's Ratio of Some Tellurite Glasses", Materials Characterization, Under Review (2013).

35- M. S. Gaafar, "Theoretical determination of ultrasonic velocities of tellurite and Borate glasses using Makishima and Mackenzie model", Physica B., Under Review (2014).

36- N. Elkhoshkhany, R. Abbas, M. S. Gaafar, R. El-Mallawany, A. Abd Almuhsin, "Elastic Moduli of Tellurite Glasses  $\text{TeO}_2\text{-ZnO-Nb}_2\text{O}_5\text{-Gd}_2\text{O}_3$ ", Physica and Chemistry of Solids, Under Review (2014).

37- R. El-Mallawany, M. S. Gaafar, M. A. Abdeen, S. Y. Marzouk, "Simulation of acoustic properties of some tellurite glasses", Ceramics International, 40(5), 7389, (2014).

38- M. S. Gaafar, " Structural Investigations on Some Cadmium-Borotellurate Glasses Using Ultrasonic, FT-IR and X-ray techniques", Journal of Alloys and Compounds, Under Review (2014).

39- M. S. Gaafar, " Improvement of UV-shielding efficiency and physico-mechanical properties of High density polyethylene via Zinc Oxide nanoparticles", Spectroscopy Letters, Under Review (2014).

**My H. Index is 11**

**(<http://scholar.google.com/eg/citations?user=toAJWG4AAAAJ&hl=en>)**

#### Teaching Experience

Electronics	B.Sc in Engineering	Faculty of Industrial Educations	EGYPT
Measurement	B.Sc in Engineering	High Institute for Engineering	EGYPT
Sound and Light	B.Sc in Physics	Faculty of Science – Suez Canal University	EGYPT
Heat and Properties of Matter	B.Sc in Physics	Faculty of Science – Suez Canal University	EGYPT
Health Physics	B.Sc in Physics	Faculty of Science – Suez Canal University	EGYPT
Thermodynamics	B.Sc in Physics	Faculty of Science – Suez Canal	EGYPT



		University	
Thermodynamics	B.Sc in Engineering	Basic Sciences Dept. – Arab Academy of Sciences and Technology	EGYPT
General Physics (PHIS-101)	B.Sc in Physics	College of Science – Majmaah University	KSA
Waves and Vibrations	B.Sc in Physics	College of Science – Majmaah University	KSA
Biophysics	B.Sc in Physics	College of Science – Majmaah University	KSA
Health Physics	B.Sc in Physics	College of Science – Majmaah University	KSA
Thermodynamics	B.Sc in Physics	College of Science – Majmaah University	KSA
Modern Physics 1	B.Sc in Physics	College of Science – Majmaah University	KSA
Electromagnetism 1	B.Sc in Physics	College of Science – Majmaah University	KSA
General Physics (104)	B.Sc in Physics	College of Science and Human Educations – Majmaah University	KSA
Solid State Physics 1	B.Sc in Physics	College of Science – Majmaah University	KSA
Solid State Physics 2	B.Sc in Physics	College of Science – Majmaah University	KSA
Solid State Physics Lab.	B.Sc in Physics	College of Science – Majmaah University	KSA
General Physics (104)	B.Sc in Computer Science (Tagseer)	College of Science – Majmaah University	KSA

#### Conferences

- 1- As an Organizing Committee and audience of the Ultrasonics International '99 joint with 1999 World Congress on Ultrasonics, 29 June – 1 July 1999, held in Technical University of Denmark -Denmark.
- 2- 6th Arab International Conference on Polymer Science and Technology, 1 – 5 September (2001) Ismaeilia – Sharm El-Sheikh, Egypt.
- 3- NORBERT KREIDL MEMORIAL International Course and Conference ICC-06, EGYPT, (2006), Ras Sudr, EGYPT.
- 4- The XXVII conference, Solid State Physics and Materials Science, 24th – 27th, Gulf of Suez, Ein Soukhna, Egypt, (2008).
- 5- International Congress On Ultrasonics – ICU, Santiago – Chili, January 11-17, (2009).
- 6- The XXVIII conference, Solid State Physics and Materials Science, Gulf of Suez, Ein Soukhna, Egypt, (2009).

#### Thesis Supervised and Reviewed

- 1- Safaa A. Bashier, Supervisor for the PHD thesis entitled "The Role of Radiation in the Structural Investigations of Some Lead Borate Glasses", Biophysics Dept. – Faculty of Science – Cairo University - EGYPT, Awarded - (2010).
- 2- Ghada El-Amir, Supervisor for the PHD thesis entitled "Structural Investigation of Some Zinc Borate Glasses", Biophysics Dept. – Faculty of Science – Cairo University - EGYPT, Awarded - (2010).
- 3- Abeer H. Serag El-Deen, Supervisor for the PHD thesis entitled "Characterization of Some

Borate Glasses", Physics Dept. – Women's College for Arts, Science and Education – Ain Shams University - EGYPT, Awarded - (2012).

4- Reviewer for the PHD thesis entitled ""Acoustical behaviour of some three component liquid systems and characterization of few glass specimen", Physics Dept. - Annamalai University, INDIA, Awarded (2008).

#### Conferences/Workshops/Seminar Organized

- 1- Organizing Committee for the Ultrasonics International '99 joint with 1999 World Congress on Ultrasonics, 29 June – 1 July 1999, held in Technical University of Denmark -Denmark.
- 2- Scientific and Quality seminars in College of Sciences, Majmaah University.
- 3- Organizing Committee for Academic Accreditation to ASIIN in College of Sciences, Majmaah University 31 March – 3 April (2014).

#### Memberships of Scientific and Technical Societies

- 1- Life member in Egyptian Society of Solid State, EGYPT.
- 2- Life member in Egyptian Society of Biophysics, EGYPT.
- 3- Reviewer member in the following Elsevier journals;
  - 1- Materials Chemistry and Physics Journal.
  - 2- Journal of Alloys and Compounds
  - 3- Physics and chemistry of Glasses
  - 4- Journal of Non-Crystalline Solids
  - 5- Physica B: Condensed Matter
  - 6- Radiation Instruments
- 4- Editorial Committee of the Marquis Who is Who.
- 5- Editorial board of the journal of Modern Applied Sciences.
- 6- Life member in Egyptian Society of Polymer Sciences and Technology, EGYPT.

#### Computer Skills

Microsoft Windows, Origin Lab., Microsoft Excel, Microsoft Word, Microsoft Power Point, Adobe Photoshop, Adobe PDF Writer, Basic Language Programming, C & C++ Programming, .....etc.

#### Practical Skills

- 1- Ultrasonic Pulse Echo technique.
- 2- FTIR.
- 3- Polarized Light Optical Microscope.
- 4- Semi-crystalline polymers and Liquid crystals.

#### Project/Reports:

- 1- 1431-1432, two projects have been made in cooperation with Dr. Yasser B. Saddeek funded from Majmaah University.
- 2- 1432-1433, one project has been made in cooperation with Dr. Y. Azzam and funded from Majmaah university.
- 3- 1433-1434, one project is in progress and funded from Majmaah university.

#### Extra Participation Experiences:

- 1- Participated as a reviewer of the scientific projects for the Islamic development bank – Saudi Arabia, for the year (2009).
- 2- Participated as a reviewer for 11 search works for the Materials Chemistry and Physics journal, Journal of Alloys & Compounds and Physics & Chemistry of Glasses.
- 3- Participate as a member researcher through the ultrasonic dept. – National Institute

of Standards in a search project with the Egyptian Academy of Scientific Research and Technology (ASRT) and the Russian - Emanuel Institute.

- 4- Participate as one of the Editorial Committee of the Marquis Who is Who from 2007 to date.
- 5- Participate as a member of the editorial board of the journal of Modern Applied Sciences.
- 6- Have been chosen as one of the top 100 scientists in (2009) selected by the International Biographical Centre (IBC) – Cambridge University – England.

## Dr. Hassan Hanafy



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## Research Interests:

**Atomic Collision:** (ion – surface collision & e-atom/ion collision)

Photonic Crystals: (electromagnetic waves propagations & photonic band gaps)

## Language

Arabic, English

## Qualification (Career and University Education)

1997-1999	PhD Degree (Atomic Physics )	<u>Internal</u> part at Faculty of science, Beni-Suef, Cairo University
2000-2002		<u>External</u> part at Stockholm University , Sweden
1991-1995	MS. C. Degree (Experimental Physics)	Faculty of Science, Beni-Suef, Cairo University.

1985-1989	B. Sc. Degree (Physics)	Grade “very good “, Faculty of Science, Beni-Suef, Cairo University.
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#### Career

1989-1995	Demonstrator , Physics Department, faculty of science, Beni-Suef, Cairo University
1995-2002	Lecturer , Physics Department, Faculty of Science, Beni-Suef, Cairo University
2002-2011	Assistant Professor, Physics Department, Faculty of Science, Beni-Suef, Cairo University
2011- now	Assistant Professor , Physics Department, Zulfi College of Science, Majmaah university , Saudi Arabia

#### Short Visits

2000-2002	Atomic physics Department, Stockholm University , Sweden
2011-	Assistant Professor, Physics Department, Zulfi College of Science, Majmaah university , Saudi Arabia.

#### Publication

- 1- H. Hamdy, M. A. K. El-Fayoumi, M. M. Mahdy, H. Hanafy and F. Shahin “ Excitation Function and Polarisation of Optical Radiation Induced by Electron Impact on Helium” *Egypt. J. Phys.* Vol. 27, No. 1-2 pp. 17-29 (1996).
- 2- T. Ali, H. Hanafy and F. Shahin “ Excitation Cross Section of the Calcium  $\lambda=468.52$  nm line by Electron Impact” *4<sup>th</sup> Radiation Conference, Alexandra 15-19 Nov.(1998).*
- 3- H. Hamdy, M. A. K. El-Fayoumi, M. M. Mahdy, H. Hanafy and F. Shahin “ Polarisation Measurements of the Emitted Light Induced by Electron Impact on Zinc Atoms” *Egypt. J. Phys.* Vol. 31, No. 2 pp. 189-196 (2000).
- 4- Gy. Viktor, M. Bjorkhage, H. Hanafy, S. Leontein, A. paal, Z. D. Pesic, E. Lindroth, and R. Schuch " X- ray Emission from Slow Highly Charged Pb Ions Colliding with Metal Surfaces", 20<sup>th</sup> Summer School and International Symposium on the Physics of Ionized Gases, Zlatibor, Yugoslavia, September 4-8, (2000).
- 5- R. Schuch , H. Hanafy, Z. D. Pesic, Gy. Viktor, V. Hoffmann, D.Niemann, and N.Stolterfoht. " Scattering of Highly Charged Ions from Solid Surfaces", 20<sup>th</sup> Summer School and International Symposium on the Physics of Ionized Gases, Zlatibor, Yugoslavia, September 4-8, (2000).
- 6- Z. D. Pesic, H.Hanafy, V. Hoffmann, D.Niemann, R. Schuch, N.Stolterfoht and Gy. Viktor, " Energy and Angular Dependence of Neutralization in Scattering of Highly Charged Argon Ions from a Gold Surface" 20<sup>th</sup> Summer School and International Symposium on the Physics of Ionized Gases, Zlatibor, Yugoslavia, September 4-8, (2000).

- 7- H. Hanafy, M. Bjorkhage, S. Leontein, E. Lindroth, Z. D. Pesic, B. Rosner, J. Weimer, Gy. Viktor, and R. Schuch, "Observation of Internal Dielectronic Excitation with Slow Highly Charged Lead Ions hitting a Surface" *Physica Scripta. TIB 116*, 1-4 (2000)
- 8- H. Hanafy, M. Bjorkhage, Z. D. Pesic, E. Lindroth, Gy. Viktor, A. Paal and R. Schuch, "Relaxation time of Highly Charged Lead ions hitting a Metallic Surface" *Annual Report, Manne Siegbahn Laboratory, Sweden*, 52-54 (2000)
- 9- Z. D. Pesic, J. Anton, S. Atanassova, H. Hanafy, Gy. Viktor, J. Weimer, M. Bjorkhage, S. Leontein and R. Schuch, "Photon-Photon Coincidence Study in the Relaxation of Highly Charged Lead ions Colliding with Tantalum Foil" *Annual Report, Manne Siegbahn Laboratory, Sweden*, 32-34 (2001).
- 10- M. A. El-Fayoumi, M. Mhahdy and H. Hanafy "Radiative Rates and Lifetimes for Highly Ionized Zinc Ions", *Sixth Radiation Physics Conference, Assiut, Egypt*, 27-30 Oct. (2002). *Arab J. Nucl. Sci. Appl.*, 36 - part 1, 415, (2003)
- 11- H. Hanafy, G. Omar, and F. Shahin "Resonant Transfer Excitation Followed by X rays for  $\text{Ar}^{(8+,11+,13+)}$  Ions with L-Shell Excitation", *XXIII International Conference on Photonic, Electronic and Atomic Collisions. Stockholm University, Sweden*, 23-29 July, (2003).
- 12- Gy. Viktor, J. Anton, S. Atanassova, A. Enulescu, H. Hanafy, A. Paal, Z. D. Pesic, and R. Schuch "Hollow Atom Relaxation Dynamics in Thin Metal Foils", *XXIII International Conference on Photonic, Electronic and Atomic Collisions. Stockholm University, Sweden*, 23-29 July, (2003).
- 13- Gy. Viktor, S. Atanassova, M. Bjorkhage, H. Hanafy, S. Leontein, Z. D. Pesic, and R. Schuch "Multiplet Photon Emission from Highly-Charged Pb Ions Interacting with Metal Foils", *XXIII International Conference on Photonic, Electronic and Atomic Collisions. Stockholm University, Sweden*, 23-29 July, (2003).
- 14- H. Hanafy, G. Omar, and F. Shahin, "Isonuclear Trends of Resonant Transfer Excitation for the Collision of  $\text{Ar}^{(8+,11+,13+)}$  Ions with L-Shell Excitation" *First International Conference Modern Trends in Physics Research, Cairo Uni., Egypt*, 4-9 April (2004). *AIP*, 748, 118-125, (2005).
- 15- Hassan Hanafy "Resonant Electron Capture for Be-like Ions with K- and L- shell Excitation" *VII Radiation Physics and Protection Conference, Ismaillia, Egypt*, 27-30 Nov., (2004). *Arab J. Nucl. Sci. Appl.*, 36, 35-43, (2005).
- 16- Z. D. Pesic, Gy. Viktor, S. Atanassova, J. Anton, M. Bjorkhage, A. Paal, H. Hanafy and R. Schuch "Relaxation of slow highly charged ions hitting thin metallic foils, *Phys. Rev.* A75, 12903 (2007)
- 17- M. Shaban, H. Hanafy, H. Hamdy and F. Shahin, "Optical Excitation Function of the Sr and  $\text{Sr}^+$  resonance lines" *VIII Radiation Physics and Protection Conference, Beni Sueif- Fayoum, Egypt*, 13-15 Nov., (2006). *Arab J. Nucl. Sci. Appl.*, 40, 405-413, (2007).
- 18- H. Hanafy, G. Omar, and F. Shahin, "Resonant Transfer Excitation Cross sections for Phosphorus Ions with K-shell Excitation" *accepted for publication in World Scientific Conference Proceedings (2008). {in press}*.
- 19- H. Hanafy and F. Shahin, "Emission of x-Rays through the Recombination in the Collision of F-like Ions with Energetic Free Electrons", *Egyptian J. Solid vol. (31), no (2)*, 259-267, (2008).
- 20- Z. D. Pesi, Gy. Viktor, H. Hanafy, A. Enulescu, and R. Schuch, "Two-photon coincidence studies of highly-charged ion relaxation in solids" *Eur. Phys. J. D* 54.
- 21- Arafa H Aly, and Hassan S. Hanafey "Polarization modes control on the transmittance characteristics of one dimensional photonic crystal", *J. Comput. Theor. Nanosci.*,

8,1916, 2011.

22- Arafa H. Aly, Ehab Abdel-Rahman, Hassan S. Hanafey, " Numerical Studies on Electromagnetic Waves Properties in Metallic-Dielectric Photonic Crystal" , *Journal of Electromagnetic Analysis and Applications*, 2011, 3, 465-470.

23- Arafa H Aly, Ahmed Mehaney, and Hassan S. Hanafey, " Phononic Band Gaps in one Dimensional Mass Spring System", *PIERS Proceedings* 1043-1047, March 27-30, Kuala Lumpur, MALAYSIA, 2012.

### Teaching Experience

Low Temperature Physics	PHYS 451	College of Science / Zulfi	Majmaah University
General Physics I	PHYS 201	Faculty of Science Beni-Suef	Beni-Suef University
General Physics II	PHYS 202	College of Science / Zulfi	Majmaah University
General Physics II	PHYS 202	Faculty of Science Beni-Suef	Beni-Suef University
Optics	PHYS 323	Faculty of Science Beni-Suef	Beni-Suef University
Optics	PHYS 323	College of Science / Zulfi	Majmaah University
Optics Lab.	PHYS 493	College of Science / Zulfi	Majmaah University
Modern Physics	PHYS 351	Faculty of Science Beni-Suef	Beni-Suef University
Modern Physics Lab.	PHYS 494	College of Science / Zulfi	Majmaah University
Electronic Lab.	PHYS 392	Faculty of Science Beni-Suef	Beni-Suef University
Electronic Physics	PHYS 422	Faculty of Science Beni-Suef	Beni-Suef University
Radiation Physics	PHYS 353	Faculty of Science Beni-Suef	Beni-Suef University
Wave and Vibration	PHYS 321	College of Science / Zulfi	Majmaah University
Atomic and Molecular Physics	PHYS 454	College of Science / Zulfi	Majmaah University
Atomic and Molecular Physics	Phys 454	Faculty of Science Beni-Suef	Beni-Suef University

### Conferences

Third International Conference on 'Modern Trend of Physics Research' MTPR-08 Physics Dept., Faculty of Science, Cairo University 6 – 10 April 2008

### Training Experience

Training "Effective communication skills" , Aswan University , Egypt

Training "Effective teaching skills", Aswan University , Egypt

Training "Decision-making and problem-solving", Aswan University , Egypt

Training " E- Learning ", Majmaah University , Saudi Arabia

Training " The culture of E-learning" Majmaah University , Saudi Arabia

Training " The Skills of E-learning" Majmaah University , Saudi Arabia

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#### Practical Skills

ICDL (International Computer Driving License )

Zertifikat Deutsch (Goethe –Zertifikat G3)

Latex Writing , Web Design , Dream weaver

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#### Ass. Prof. Ibrahim Shaarany Hegy Mahmoud



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#### Research Interests:

Theoretical Physics: (Particle Physic)

#### Language

Arabic, English

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#### Qualification (Career and University Education)

1990-1993	B. Sc. Degree (Physics)	Grade "Very Good with Honor", Faculty of science, Suez Canal University (Egypt).
1996-1998	MS. C. Degree (Theoretical Physics)	Faculty of Science, Faculty of science, Suez Canal University (Egypt).
2002-2004	PhD Degree (Theoretical Physics )	Faculty of Science, Suez Canal University (Egypt).

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## Career

1993-1998	Demonstrator at Department of Physics, faculty of Science, Suez Canal University (Egypt).
1998-2004	Assistant Lecturer at Department of Physics, faculty of Science, Suez Canal University (Egypt).
2004 - 2006	Lecture at Department of Physics, faculty of Science, Suez Canal University (Egypt).
2006-2010	Assistant Professor at Faculty of Science and Art, Ben-Gazzy university , Lybia
2011-Now	Assistant Professor at Department of Physics , Faculty of Science, Majmaah university , Saudi Arabia

## Publication

**24-I.S. Mahmoud and T. Abd El-Azim, "Photoproduction of Lightest Neutral MSSM Higgs Boson", 4th Conference on Nuclear and Particle Physics, 11-15 Oct. 2003, Fayoum, Egypt**

**I.S. Mahmoud, "Production of Heavy Neutral MSSM Higgs Boson in Photon-Electron Colliders", 4th Conference on Nuclear and Particle Physics, 11-15 Oct. 2003, Fayoum, Egypt**

**25-I.S. Mahmoud, "The Higgs mass using E-infinity theory" Journal of Chaos, Solitons & Fractals, Volume 30, Issue 2, October 2006, Pages 263-268**

26- I.S. Mahmoud, "Production of Lightest Neutral MSSM Higgs Boson in Association with Neutralinos pair at Electron Positron Colliders", prepared for submitting to the European physical journal c.

**27-I.S. Mahmoud and T. Abd El-Azim, " Production of Lightest Neutral MSSM Higgs Boson in Association with sLepton pair at Electron Positron Colliders" prepared for submitting to the International Review of Physics (IREPHY) (6) 2012 .**

## Teaching Experience

Electrodynamics, Electromagnetism, Electricity and Magnetism, Special theory of Relativity, Quantum Mechanics	Suez Canal University, Egypt
Quantum Mechanics, Mathematical Physics, General Physics, Electricity and Magnetism,	Majmaah University, KSA

## Conferences

Egypt France Mathematics Conference	France Embassy	2010
Conference on Topology and its Application	Tanta	2010
Fifth Annual Conference	Cairo	2007

## Training Experience

Training Workshop of E-Learning, American University in Egypt, Cairo, Egypt, from 15/11/2005 to
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30/12/2005.

Training " E- Learning ", Majmaah University , Saudi Arabia

Training " The culture of E-learning" Majmaah University , Saudi Arabia

Training " The Skills of E-learning" Majmaah University , Saudi Arabia

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### Practical Skills

Unix, Linux (RedHat, Mandriva), Windows

MatLab, Mathematica, Maple, Origin, Grace, Latex, SWP, Calcchep, FeynArt, FeynCalc.

Latex Writing , Web Design , Dream weaver

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### Dr. Abdu Idris omer



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### Research Interests:

Electronic Systems

Microelectronics

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### Language Skills

Arabic, English

---

### Qualification (Career and University Education)

1985-1992	B. Sc. Degree (Electronics)	Division Two Upper, Grade "very good ", Faculty of science and Technology, Wad Medani, Gezira University.
1996-1998	MS. C. Degree (Experimental Electronics)	Faculty of Engineering, Universiti Putra Malaysia, Kualau Lumpor, Malaysia.

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1998-2002	PhD Degree (Electronic systems Engineering )	Faculty of Engineering, Kuala lumpor, Universiti Putra Malaysia. <u>External part</u> at Stockholm University , Sweden
-----------	--	---

### Career

1993-1995	Demonstrator at Department of Applied Physics Electronics & Instrumentation, faculty of science and Technology, Wad Medani, Gizera University
2002-2009	Assistant Professor at Department of Applied Physics, Electronics & Instrumentation, Faculty of Science and Technology , Wad Medani, Gizera University
2010-	Assistant Professor at Department of Physics, Faculty of Science, Majmaah university , Saudi Arabia

### Short Visits

2010-	Visiting Lecturer for Physics Department , Majmaah university
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### Publication

1-	Abdu Idris Omer, Taleb M.M. " ARCHITECTURE OF INDUSTRIAL AUTOMATION SYSTEMS", European Scientific Journal January 2014 edition vol.10, No.3 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431,
2-	Abdu Idris Omer, Taleb M.M." MEASUREMENT SYSTEMS: CHARACTERISTICS AND MODELS", European Scientific Journal March 2014 edition vol.10, No.9 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431.
3-	Taleb M. Maslamani , Abdu Idris Omer, " DEVELOPMENT OF SOLAR THERMOELECTRIC GENERATOR", European Scientific Journal March 2014 edition vol.10, No.9 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431.
4-	Sulieman M.S. Zobly and Abdu I. Omer “Development a simulated method for continuous monitoring radiation in the nuclear medicine department (Wad Medani)”, Gezira j. of eng. & applied sci.4 (1) :1 – 14 (2009)
5-	Sulieman M.S. Zobly and Abdu I. Omer “Developing an Induction Heating & hardening System”, Gezira j. of eng. & applied sci.3 (2) :38 – 51(2008).
6-	Yousif A. Abdu I. Omer, “Development of a computerized system for weft insertion based on Dobby device mechanism”, Gezira j. of eng. & applied sci.4 (1) :120 – 136 (2009).
7-	Khalid O. Daffallah, Mutaz M. Fadl Allah, Abdu I. Omer, "Design and Development of a Photovoltaic Water Pumping" Gezira j. of eng. & applied . sci. 5 (1) :1 –15 (2010).

- 8- Abdu Idris Omer, "Modeling and Analyzing Electric Circuits", 1<sup>st</sup> Global Virtual Conference April, 8. - 12. 2013.
- 9- Abdu I. Omer, Mohammed A. Alhadi, "Development of a Microcontroller Based Security Lock for a Car Engine", 1<sup>st</sup> Global Virtual Conference April, 8. - 12. 2013
- 10- Abdu, I. Omer, Zamri, I. and Rahman W. "Development of Computer-based interfacing board for Chlorpyrifos detection using an Amperometric Biosensor", Proceedings of the 13<sup>th</sup> National Biotechnology Seminar 2001, Jointly organized by National Biotechnology Directorate, Ministry of Science, Technology and the Environment, Malaysia, pp. 224-226, from 10-13<sup>th</sup> Nov. 2001 in the Bayview Beach Resort, Penang, Malaysia.
- 11- Abdu, I. Omer, Bambang S. Suparjo, Rahman W. Wagiran "Multi-channel PC-Based Instrumentation System". Proceedings of the National Real-time Technology and applications Symposium (RENTAS 2000), pp 99-103. Auditorium MIMOS, MIMOS Berhad, Technology Park, Malaysia, Kuala lumpur, Malaysia. 17-18 Oct. 2000
- 12- Abdu, I. Omer, Bambang S. Suparjo, Rahman W. Wagiran, Zamri, I. "An Amperometric Sensor for the Detection of Organophosphate Pesticide", Conference on 1999 IEEE National Symposium on Microelectronics, organized by The institution of Electrical and Electronic Engineers Inc. IEEE Malaysian Section Electron Devices Chapter, September 6-7, 1999 The Pan Pacific Resort Pangkor, Malaysia.
- 13- Zamri, I. and Abdu, I. Omer "Biosensor System to Detect Organophosphate Pesticide", Proceedings of the 9<sup>th</sup> Malaysian Society of Plant Physiology Conference 1998, Organized by Malaysian Society of Plant Physiology, 1-2 Sep. 1998.
- 14- Zamri, I. Salmah AA, Abdu I. Masnizar M. and Anuar A. "Development of Fiber Optic Biosensor For Detection of Pesticide Residues Using Enzyme as a Bioreceptor", Proceedings of the 12<sup>th</sup> National Biotechnology Seminar 2000, Jointly Organized by Molecular Biology BCC at Universiti of Malaya and Biotech Ministry of Science Technology & the Environment, Malaysia, pp. 49-51. From 12-15<sup>th</sup> Nov. 2000 at Lumut, Perak Darul Ridzuan, Malaysia.

### Teaching Experience

General Physics	PHIS101	AlZulfi Science	Majmaah University
General Physics	PHYS202	AlZulfi, Science	Majmaah University
General Physics	PHIS104	AlZulfi Science	Majmaah University

Electronics 1	PHIS324	AlZulfi Science	Majmaah University
Electronics 2	PHIS425	AlZulfi, Science	Majmaah University
Electronics	PHYS422	AlZulfi, Science	Majmaah University
Transistor Circuits	Electronics	Wad Medni, Science and Technology	Sudan
Electronic Design	Electronics	Wad Medni, Science and Technology	Sudan
Microprocessors	<b>Electronics</b>	<b>Wad Medni, Science and Technology</b>	Sudan

### Conferences

Universiti Putra Malaysia, World Engineering Congress 1999, Malaysia

### Training Experience

Training " National Training course on interfacing in scientific Experiments " , Sudan Atomic Energy Commission, Sudan.

Training " How to use a computer for teaching Engineering Sciences using the MatLab software " National Assembly, Ministry of Higher Education and Scientific Research, Sudan.

Training " National training course on microprocessor-based instruments including operation, troubleshooting and repair ", Sudan Atomic Energy Commission, Sudan.

### Practical Skills

Computer assembly, maintenance and troubleshooting course ", Irfan Technologies Sdn, Bhd, kuala Lumpur, Malaysia.

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**Research Interests:**

**Radio wave**

**radio – thermography**

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**Language Skills**

Arabic , Russian , English

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**Qualification (Career and University Education)**

B. Sc. Degree (Engineer ) Tashkent of radio Technical and communication – Uzbekistan

MS. C. Degree (Engineer) Tashkent of radio Technical and communication – Uzbekistan

PhD Degree

(physics ) Kharkov State Radio and Technical University –Ukraine

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**Career**

2002-2006 Assistant Lecturer at Department of Physics , faculty of science- Omer Al-Mokhtar University –libya

2007-2010 Assistant Professor at Department of Physics , Faculty of Science, Al-Qassim university , Saudi Arabia

2010- until now Assistant Professor at Department of Physics , Faculty of Science, Majmaah university , Saudi Arabia

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**Short Visits**

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**Publication**

- 1- Dolzhikov V.V, Maslamani T.M., "Small-sized antenna for medical application " Theses of reports of International conference , Kharkov,-1995.-p.111.
- 2- Maslamani T.M." Method of calculation of applicator electromagnetic field in biological medium " , **Radio Electronics and Information Science .-1998.-N.3.-p.4-9 .**
- 3- Maslamani T.M." Calculation of resonator –slot antenna with wire activator of arbitrary form " , **Radio Electronics and Information Science .-1998.-N.4.-p.13-16 .**
- 4- Maslamani T.M.," Materials of the 8<sup>th</sup> International Crimean Conference On SHF<sub>s</sub> " – Sevastopol , -1997 .-p.518-520.
- 5- Sakalo C.N ., Maslamani T.M., " Vibrator –slot applicator " **Bulletin of Kharkov University . -1999 . N. 1. P.173-175 .**
- 6- Abdu Idris Omer ., Taleb M.M., "Architecture of Industrial Automation Systems " **European Scientific Journal ., 2014 .,vol.10, N.3 ISSN, .P.273-283 .**
- 7- Taleb M.M, Abdu Idris Omer . " **Development of solar Thermoelectric Generator**

- 8- **Abdu Idris Omer, Taleb M.M . " Measurement Systems: Characteristics and Models " European Scientific Journal ., 2014 .,vol.10, N.9 ISSN, .P.248-260.**

#### Teaching Experience

General Physic I	PHYS101	Omer Al-Mokhtar University –Libya
General Physic II	PHYS202	Omer Al-Mokhtar University –Libya
Electromagnetism I	PHYS 221	Qassim University & Majmaah University
Electromagnetism II	PHYS321	Qassim University & Majmaah University
Mathematical Physic I	PHYS203	
Mathematical Physic II	PHYS302	Majmaah University
Mathematical Physic III	PHYS303	Majmaah University
Wave and Vibration I	PHYS231	Majmaah University

#### Conferences

#### Training Experience

Training "Effective communication skills " ,Omer Al-Mokhtar University  
 Training "Effective teaching skills", Omer Al-Mokhtar University  
 Training "Decision-making and problem-solving", Omer Al-Mokhtar University  
 Training " E- Learning ", Majmaah University , Saudi Arabia  
 Training " The culture of E-learning" Majmaah University , Saudi Arabia  
 Training " The Skills of E-learning" Majmaah University , Saudi Arabia

#### Practical Skills

Microsoft office

#### Assistant Prof. Dr. Mohammed Hassen Eid Abu-Sei'leek



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 Physics Department  
 Faculty of Science, Zulfi

Majmaah university

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#### Research Interests:

Theoretical Nuclear Structure Computations.  
Compressed Finite Nuclei.  
Heated Finite Nuclei.  
Heavy Ion Collisions.  
Astrophysics.  
Exchange Meson Theory.  
Intermediate Energy Physics.  
Thermal Properties of Finite Nuclei.

#### Language Skills

Arabic, English

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#### Qualification (Career and University Education)

1991-1995	B. Sc. Degree (Physics)	Grade "very good ", Faculty of science, Yarmouk University, Irbid, Jordan.
1996-1999	MS. C. Degree (Medicalphysics)	Grade "very good ", Faculty of science, University of Jordan, Amman, Jordan.
2002-2007	PhD Degree (Nuclear Physics )	Grade "very good ", Faculty of science, University of Jordan, Amman, Jordan.

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#### Career

09/09/2011–	" Assistant Professor" at Majmaah university, Al-Zulfi, Kingdom of Saudi Arabia
14/10/2008–	" Assistant Professor" at Al-Jouf university, Al-Jouf, Skaka, Kingdom of Saudi Arabia
05/09/2011	
13/2/2000 –	" Instructor" at Hashemite university, Zarqa , Jordan.
14/10/2008	
1/9/1996–	"Teaching Assistant " at University of Jordan, supervising Freshman Lab., radiation
1/7/1999	and medical Lab.
24/9/1996–	" Physics teacher" at public school in Zarqa, Jordan.
13/2/2000	
16/9/ 1995 -	"Technician of physics Lab. " at Al-Isra University , Amman , Jordan .
24/9/1996	

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#### Publication

Abu-Sei'leek, M., 2011, "Delta Excitation Calculation Studies in Compressed Finite Spherical Nucleus  $^{40}\text{Ca}$ " , Nucl. Phys. Rev. 28 (4),416.

Abu-Sei'leek, M., 2011, "Doubly-Magic  $^{100}\text{Sn}$  Nucleus with Delta Excitation under Compression" J. Phys. Soc. Jpn. 80 (10) 104201.

Abu-Sei'leek, M., 2011, "Delta Excitation Calculation Studies in the Ground State of the compressed Finite Heavies Doubly-Magic  $^{100}\text{Sn}$  Nucleus" Turk. J. Phys.35 , 1.

Abu-Sei'leek, M., 2011, "Resonances-Excitation Studies Investigation of  $\Delta(3,3)$  in Ground State of  $^{90}\text{Zr}$  Cold Finite Heavy Nuclei at Equilibrium and Under Compression ", Commun. Theor. Phys. 55(01),115.

Abu-Sei'leek, M., 2011, "Hartree-Fock Calculation Studies Investigation of  $\Delta(3,3)$  Resonances in the Ground State of Compressed Heavy Spherical Finite Nucleus  $^{132}\text{Sn}$ ", International J. of Pure and Applied Phys.,7(1),73.

Abu-Sei'leek, M., 2011, "Investigation of  $\Delta(3,3)$  Resonances Effects on the Properties of Neutron-Rich Double Magic Spherical Finite Nucleus,  $^{132}\text{Sn}$ , in the Ground State and Under Compression", Pramana- J. Phys. 76 (4),573.

Abu-Sei'leek, M. and Hasan M., 2010," $\Delta$ -Resonances in Ground State Properties of Spherical Cold Finite Nucleus at Equilibrium and Under Compression", Commun. Theor. Phys. 54 (2),339.

Abu-Sei'leek, M., 2010, "Delta Excitation in Compressed Neutron-Rich Double Magic Spherical Finite Nucleus  $^{132}\text{Sn}$ ", Nucl. Phys. Rev. 27(4),399.

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#### Teaching Experience

E-learning Courses.

Modern Physics.

Introductory Physics.

Nuclear Physics (I).

Nuclear Physics (II).

Neutron Physics.

Radiation Physics.

Classical Mechanics (II).

Quantum Mechanics (I).

Quantum Mechanics (II).

Statistical Physics.

Freshman Laboratories.

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Radiation and Medical Laboratory.		
Advance Laboratories.		
General Physics Courses for Medical, Science, and Engineering Students.		
Computational Physics.		
The Physics of Vibrations and Waves.		
Nuclear Physics Laboratories.		
Seminars (Graduate Projects).		

### Conferences

The Energy & Materials Research Conference	Zurbarán, Badajoz, Spain	2012
Fifth Saudi Science Conference	Makkah, Saudi Arabia	2012

### Training Experience

• ICDL Certificated
• The Desire2Learn Community (E-LEARNING)
• A COURSE IN THE INTEGRATION OF TECHNOLOGY IN UNIVERSITY TEACHING
• E-LEARNING CULTURE
• PROFESSIONAL PARTICIPATION OF FILES AND REMOTE PROJECTS
• SKILLS OF E-LEARNING SYSTEMS
• ActivInspire
• BASIC
• PASCAL
• FORTRAN
• MATHEMATICA
• UNIVERSITY EDUCATIONAL TOOLS TECHNOLOGY
• LECTORA (E-LEARNING)
• TEGRITY
• ELLUMINATE
• BLACKBOARD
• E-LEARNING AND THE DESIGN OF ELECTRONIC COURSE ACROSS THE WEB
• E-EDUCATION SYSTEM AND BRIDGES

### Practical Skills

ICDL(International Computer Driving License )
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Latex Writing.
----------------

### Dr. Khaled Ben abdessalem



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Physics Department  
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#### Research Interests:

Mechanical Engineering, Biomechanics

Computational and experimental biomechanical analysis of the cardiovascular system and its application to clinical diagnosis and intervention,

Cardiovascular prostheses, and medical devices

#### Language Skills

Arabic (native), English, French.

#### Qualification (Career and University Education)

<b>1993-1998</b>	B. Sc. Degree (Physics)	Faculty of science / University of Monastir/ Tunisia
<b>2001-2002</b>	MS. C. Degree (Rheology)	University Paris 7-denis Diderot / French

	of the material, complex materials and industrial fluids)	
<b>2003–2008</b>	PhD Degree (Mechanical Engineering : Biomechanics)	University Paris 7-denis Diderot / French

### Career

2012–recent	<b>Assistant Professor</b> College of science in al-Zulfi / <i>Majmaah University</i> Saudi Arabia
2010–2012	<b>Assistant Professor</b> Higher Institute of Applied Mathematics and Computer sciences/ University of Kairouan/ TUNISIA
2009–2012	<b>Assistant Professor</b> Higher Institute of Medical Technologies of Tunis.
2008–2014	<b>Researcher</b> laboratory of Biophysics / <i>Higher Institute of Medical Technologies of Tunis</i> / TUNISIA
2004–2010	<b>Physics Teacher for MES, Schools &amp; College</b> / TUNISIA
2002–2004	<b>Physics Teacher for MES, Schools &amp; College</b> / FRENCH

### Short Visits

### Publication

**Khaled Ben Abdessalem, Propagation D'onde Dans Un Milieu Viscoélastique : application au système artériel, Presses Académiques Francophones AV Akademikerverlag GmbH & Co. KG, ISBN 978-3-8381-7335-1(2012)**

K.B. Abdessalem and R. B. Salah, Pulse wave velocity in arteries using centre line velocity and radius Effect of terminal impedance and measurement errors", Signals and Telecommunication Journal, Mars 2013.

K.B. Abdessalem, P. Flaud, W. Shtout & R. B. Salah, Non-invasive method for measuring local pulse wave velocity in arteries: part I, Computer Methods in Biomechanics and Biomedical Engineering Volume 15, Supplement 1, September 2012, pages 108-109

K.B. Abdessalem, P. Flaud, W. Shtout & R. B. Salah, Non-invasive method for measuring local pulse wave velocity in arteries: part II, Computer Methods in Biomechanics and Biomedical Engineering Volume 15, Supplement 1, September 2012, pages 63-65

K. B. Abdessalem; S. Mansouri; R. B. Salah; S. B. Abdessalem, New technique of flow rate and pressure separation within the arterial system: Part II, Computer Methods in Biomechanics and Biomedical Engineering, 12: 11-12 (2010).

K. B. Abdessalem; S. Mansouri; R. B. Salah; S. B. Abdessalem, New technique of flow rate and pressure separation within the arterial system: Part I, Computer Methods in Biomechanics and Biomedical Engineering, 12: 9-10 (2010).

K. B. Abdessalem and S.B. Abdessalem, New technique of characteristic impedance determination within the arterial system: Part II, O. Dössel and W C. Schlegel (Eds.): WC 2009, IFMBE Proceedings 25/IV, pp. 1361–1364, (2009).

K. B. Abdessalem and S. B. Abdessalem, New technique of characteristic impedance determination within the arterial system: Part I. O. Dössel and W C. Schlegel (Eds.): WC 2009, IFMBE Proceedings 25/IV, pp. 1953–1956, 2009

K. B. Abdessalem and S. B. Abdessalem, Effect of positioning measurement probes on the determination of propagation coefficient using two-point methods, Computer Methods in Biomechanics and Biomedical Engineering, 12: 19-22 (2009).

K. B. Abdessalem, W. Sahtout, P. Flaud, M. H. Gazah and Z. Fakhfakh, Numerical simulation of non-invasive determination of the propagation coefficient in arterial system using two measurements sites, The European Physical Journal Applied Physics 40: 211-219(2007).

K. B. Abdessalem and S. B. Abdessalem, New technique of flow rate and pressure separation within the arterial system, American Society of Biomechanics Annual Conference—August 26–29, (2009).

S. Mansouri, I. Maaoui, R. Ben Salah, H Mahjoubi, A Mami, K. B. Abdessalem and S.B. Abdessalem, FPGA-Based derivative module for plethysmographic signal, Medical Physics and Biomedical Engineering World Congress - the triennial scientific meeting of the IUPESM-Munich, Germany, 7 – 12 September, 2009.

K. B. Abdessalem, W. Sahtout, P. Flaud, Z. Fakhfakh, New method for determining the wave speed in the arterial system, 2nd International Francophone Congress for Advanced Mechanics, Aleppo-Syria, 14-16 May, 2007.

K. B. Abdessalem, W. Sahtout, P. Flaud and Z. Fakhfakh, Non-invasive determination of the position of obstruction in arterial system, Third International Conference on Advances in Mechanical Engineering and Mechanics, ICAMEM 06, Hammamet, 17,19 Dec. 2006.

K. B. Abdessalem, W. Sahtout, P. Flaud, Z. Fakhfakh, 2006, New noninvasive method of determination of wave speed and attenuation in arterial system, Third International Conference on Advances in Mechanical Engineering and Mechanics, ICAMEM 06, Hammamet, 17,19 Dec. 2006.

K. B. Abdessalem, Sahtout W, and Flaud P, Fakhfakh Z, Non-invasive determination of the propagation coefficient from measurements of velocity in three sections of an arterial trunk, 5th National Conference of flow and Transfers, Monastir, 19-21 March 2006.

#### Teaching Experience

<b>General Physics I</b>	PHYS 201	Higher Institute of Applied Mathematics and Computer sciences	Kairouan University
<b>General Physics II</b>	PHYS 202	College of Science / Zulfi	Majmaah University
<b>Health Physics</b>	PHYS 334	College of Science / Zulfi	Majmaah University
<b>Vibration and Waves I</b>	PHYS 231	College of Science / Zulfi	Majmaah University
<b>Electromagnetism Lab.</b>	PHYS 392	College of Science / Zulfi	Majmaah University
<b>Basic Statistical Mechanics and Low Temperature physics</b>	PHYS 473	College of Science / Zulfi	Majmaah University
<b>Vibration and Waves II</b>	PHYS 332	College of Science / Zulfi	Majmaah University
<b>Mathematical Physics II</b>	PHYS 302	College of Science / Zulfi	Majmaah University
<b>Geometrical Optics</b>	PHYS 332	Higher Institute of Applied Mathematics and Computer sciences	Kairouan University
<b>Optics Lab</b>	PHYS 393	College of Science / Zulfi	Majmaah University
<b>Thermodynamics</b>	PHYS 241	Higher Institute of	Kairouan University

		Applied Mathematics and Computer sciences	
<b>Classical Mechanics</b>	PHYS 211	Higher Institute of Applied Mathematics and Computer sciences	Kairouan University
<b>Biophysics</b>	PHYS 361	College of Science / Zulfi	Majmaah University
<b>Bio-rheology, cardiovascular biomechanics</b>		Higher Institute of Medical Technologies	University Tunis
<b>Fluid mechanics Modeling and numerical methods for physics</b>		Higher Institute of Medical Technologies	University Tunis
<b>Computational physics</b>	PHYS 405	<b>Higher Institute of Medical Technologies</b>	University Tunis
<b>General Physics Courses for Medical, Science, and Engineering Students .</b>	PHYS 101	College of Engineering/ Zulfi	Majmaah University

#### Conferences

#### Training Experience

Activinspire

E-education system and bridges

Basic

Integration of technology in university teaching

Skills of e-learning systems

#### Practical Skills

Computational physics (finite volume, finite elements, spectral methods)

Ultrasound, Laser-Doppler, particle imaging velocimetry

Modeling and numerical simulation, COMSOL Multiphysics, MATLAB,

Linux, Windows XP, Adobe PhotoShop, Adobe Acrobat, Macromedia Dream Weaver, Macromedia Flash MX, Microsoft PowerPoint, Microsoft Excel.

## Dr. Ahmed Adel



Assistant Professor  
Physics Department  
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### Research Interests:

Low energy Nuclear Reactions  
Synthesis and Structure of Superheavy Nuclei  
Heavy ion Interactions

### Language Skills

Arabic, English

### Qualification (Career and University Education)

2000-2004	B. Sc. Degree (Physics)	Grade "Excellent with Distinction", Faculty of Science, Cairo University
2005-2007	MS. C. Degree (Theoretical Nuclear Physics)	Faculty of Science, Cairo University
2007-2010	PhD Degree (Theoretical Nuclear Physics )	Faculty of Science, Cairo University

### Career

2004-2007	Demonstrator at Department of Physics, Faculty of Science, Cairo University
2007-2010	Assistant Lecturer at Department of Physics, Faculty of Science, Cairo University
2010 – 2013	Lecture at Department of Physics, Faculty of Science, Cairo University
2013-Present	Assistant Professor at Department of Physics , Faculty of Science, Majmaah University , Saudi Arabia

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**Short Visits**

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2011	Scholar at Joint Institute of Nuclear Reactions, Dubna, Moscow Oblast, Russia
2013	Scholar at Joint Institute of Nuclear Reactions, Dubna, Moscow Oblast, Russia

---

**Publication**

9. M. Ismail, A. Y. Ellithi, M. M. Botros, and **A. Adel**, "Systematics of  $\alpha$ -decay half-lives around shell closures", *Physical Review C* 81, 024602 (2010).
10. M. Ismail, A. Y. Ellithi, M. M. Botros, and **A. Adel**, "Binding energies of even-even superheavy nuclei in a semi-microscopic approach", *Physics of Atomic Nuclei* 73, 1660 (2010).
11. M. Ismail, A. Y. Ellithi, H. Elgebaly, M. M. Botros, and **A. Adel**, "On the sharp surface model for coulomb and nuclear interactions between two deformed nuclei", *International Journal of Modern Physics E* 19, 371 (2010).
12. M. Ismail and **A. Adel**, "Orientation dependent behavior of the Coulomb barrier parameters for deformed-deformed nuclei", *Nuclear Physics A* 859, 1 (2011).
13. M. Ismail and **A. Adel**, "Azimuthal angle dependence of the Coulomb barrier parameters for the interaction between two deformed nuclei", *Physical Review C* 84, 034610 (2011).
14. M. Ismail and **A. Adel**, "Shell corrections for heavy and superheavy nuclei", *International Journal of Modern Physics E*, vol. 21, 1250062 (2012).
15. V. A. Rachkov, **A. Adel**, A. V. Karpov, A. S. Denikin, and V. I. Zagrebaev, "Effect of neutron transfer in the fusion process near and below the Coulomb barrier", *AIP Conference Proceedings*, vol. 1491, pp. 381-382, 2012.
16. **A. Adel**, V. A. Rachkov, A. V. Karpov, A. S. Denikin, M. Ismail, W. M. Seif, and A. Y. Ellithi, "Effect of neutron rearrangement on subbarrier fusion reactions", *Nuclear Physics A*, 876, 119 (2012).
17. M. Ismail and **A. Adel**, "Correlation between  $\alpha$ -particle preformation probability and the energy levels of parent nuclei", *Physical Review C* 86, 014616 (2012).

18. **V. A. Rachkov, A. Adel, A. V. Karpov, A. S. Denikin, and V. I. Zagrebaev,** "Effect of neutron transfer channels in fusion reactions with weakly bound nuclei at subbarrier energies", *Bulletin of the Russian Academy of Sciences: Physics*, vol. 77, no. 4, pp. 411-415, 2013.
19. **M. Ismail, and A. Adel,** "Effect of energy level sequences and neutron-proton interaction on  $\alpha$ -particle preformation probability", *Nuclear Physics A*, vol. 912, pp. 18-30, 2013.
20. **M. Ismail, and A. Adel,** "Prediction of nuclear spin based on the behavior of  $\alpha$ -particle preformation probability", *Physical Review C*, vol. 88, issue 5, pp. 054604, 2013.
21. **M. Ismail, and A. Adel,** "Effect of deformation parameters, Q value, and finite-range NN force on  $\alpha$ -particle preformation probability", *Physical Review C*, vol. 89, pp. 034617, 2014.

#### Teaching Experience

General Physics	Phys. 101	Cairo University
Statistical Mechanics	Phys. 351	Cairo University
Classical Mechanics	Phys. 221 & Phys. 222	Cairo University
Quantum Mechanics	Phys. 321	Cairo University
Computational Nuclear Physics	Phys. 427	Cairo University
General Physics	Phys. 128	Majmaah University
Nuclear Physics I	Phys. 481	Majmaah University

#### Conferences

<b>Attended the "International Workshop on "Nuclear Science and Education"</b>	Cairo University	2009
<b>Italian Scientific Seminar Series in Egypt "Present Status of Research in Controlled Thermonuclear Fusion" by Dr. Francesco Romanelli.</b>	Cairo University	2010

#### Training Experience

Training "The Credit Hour System", Cairo University, Egypt
Training "Competing for Research Funds", Cairo University, Egypt
Training "Scientific Publication", Cairo University, Egypt



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**Practical Skills****Programming Using “Fortran and C++”****Mathematica****Latex Writing**

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**Dr. Sajad Hussain**

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Department of Physics  
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E-Mail:	s.abdullah@mu.edu.sa
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Link to Homepage: <http://faculty.mu.edu.sa/>

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**Research Interests:**

Solar cells,  
Energy harvesting nanomaterials  
Growth and characterization of Functional Nanomaterials

**Language Skills**

English, Urdu, Chinese

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**Qualification (Career and University Education)**

2000-2004	B. Sc. Degree (Physics)	Punjab University Pakistan
2005-2007	MS. C. Degree (Physics)	University of Agriculture Faisalabad, Pakistan
2008-2012	PhD Degree (Materials Physics and Chemistry )	Beijing Institute of Technology, China

---

**Career**

July, 2012- Feb, 2013	Assistant Professor, Department of Physics, Government College University, Faisalabad, Pakistan
Mar, 2013- July 2013	Assistant Professor, Department of Physics, COMSATS Institute of Information Technology, Islamabad, Pakistan
Oct, 2013-to date	Assistant Professor, Department of Physics, Faculty of Science, Majmaah university, Saudi Arabia

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#### Short Visits

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#### Publication

S. Hussain, C. Cao, G. Nabi, W. S. Khan, Z. Usman, T. Mahmood. Effect of Electrodeposition and annealing of ZnO on optical and photovoltaic properties of the p-Cu<sub>2</sub>O/n-ZnO solar cells. *Electrochimica Acta* 56, 2011, 8342–8346

S. Hussain, C. Cao, W. S. Khan, G. Nabi, Z. Chen, Z. Ali, F. K Butt. Fabrication and electrical characterization of p-Cu<sub>2</sub>O/n-ZnO heterojunction. *J. Nanosci. Nanotechnol.* 12, 2012 1967–1971

S. Hussain, C. Cao, W. S. Khan, G. Nabi, Z. Usman, F. K Butt, Z. Ali, T. Mahmood. Fabrication and photovoltaic characteristics of Cu<sub>2</sub>O/TiO<sub>2</sub> thin film heterojunction solar cell. *Thin Solid films* 522 2012 430–434,

S. Hussain, C. Cao, W. S. Khan, G. Nabi, Z. Usman, F. K Butt, Z. Ali, T. Mahmood. .Preparation of ZnO novel nanostructures by facile hydrothermal route, their PL and PEC properties. *J. Current nanosci.* 8 (3) 2012 414–416

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#### Teaching Experience

Basic Physics	Phys 128	G.C Uni. Faisalabad, Pakistan
Thermal Physics Lab	Phys 291	G.C Uni. Faisalabad, Pakistan
Classical Mechanics	Phys 211	Majmaah university

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#### Conferences

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#### Training Experience

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#### Practical Skills

RF and DC sputtering  
Sol-Gel and hydrothermal

---

### Scholarship Names

	Name	Rink	Field	Position Study	E-mail
4)	Mansour Elhabardi	Lecture	Solid State	England	<a href="mailto:m.alhabradi@mu.edu.sa">m.alhabradi@mu.edu.sa</a>
5)	Mohamed Elbadah	Admisrator	Physics	Canada	@mu.edu.sa
6)	Ahmed Elanzei	Admnstrator	Physics	USA	@mu.edu.sa

### Administrator Names

	Name	Rink	Field	Position Study	E-mail
4)	Majed Elowaid	Administrator	Physics		<a href="mailto:m.alouaid@mu.edu.sa">m.alouaid@mu.edu.sa</a>
5)	Abdulrzag Aldweesh	Administrator	Physics		<a href="mailto:as.aldweesh@mu.edu.sa">as.aldweesh@mu.edu.sa</a>
6)	Nader Alhabradi	Administrator	Physics		<a href="mailto:n.alhabradi@mu.edu.sa">n.alhabradi@mu.edu.sa</a>

### Technician Names

	Name	Rink	Field	work	E-mail
2)	Ahmed Alwazzan	B. Sc.	Physics	Zulfi College	<a href="mailto:a.alwazzan@mu.edu.sa">a.alwazzan@mu.edu.sa</a>

### Secretary Names

	Name	=	=	work	E-mail
1)	Abdalla Alsweeket			Zulfi College	<a href="mailto:a.alsweeket@mu.edu.sa">a.alsweeket@mu.edu.sa</a>

### STATISTICS INFORMATION FOR PHYSICS PROGRAM

Occupation	Number	Non-Saudi	Saudi
Professor	2	2	-
Associate Professor	1	1	-
Assistant professor	11	10	1
Lecturer	-	-	-
Demonstrator	3	-	3
Scholarship	3	-	3
Total		13	7

Illustration shows the percentage of Saudi to non-Saudis to the functional framework

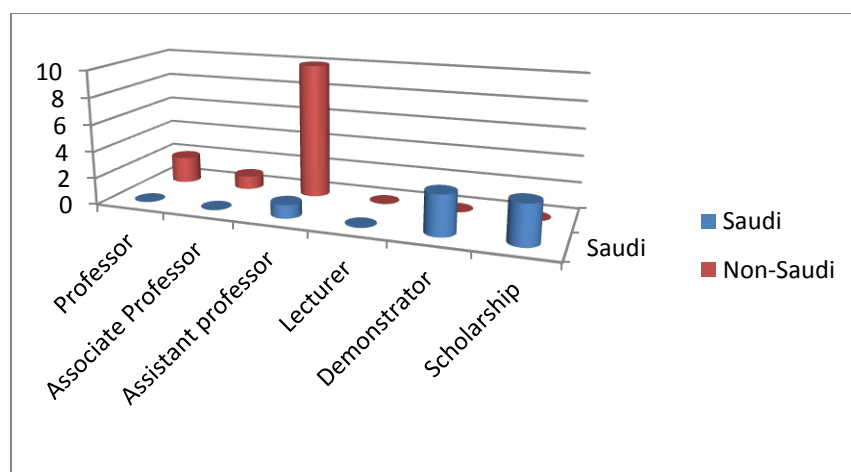


Illustration shows the overall non-Saudi Arabia

The proportion of non-

Saudi Arabia 34.6%

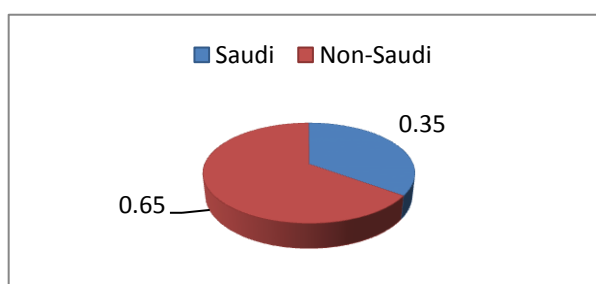


Illustration shows the ratio of faculty staff to students

The Ratio is 1: 12.



# **Curriculum Vitae of Computer Science and Information Department Members**

1434/1435

2013/2014

## Curriculum Vitae of Computer Science and Information Department Members

### Dr. Yosry Ahmed Mohamed Azzam



Associate Professor  
Computer Science and Information Department  
College of Science, Zulfi  
Majmaah University

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<b>Link to Homepage:</b>	<b><a href="http://faculty.mu.edu.sa/Yazzam">http://faculty.mu.edu.sa/Yazzam</a></b>

#### Research Interests:

Artificial Intelligence  
Pattern Matching, Image Processing and Robotics  
Solar Energy prediction & utilization

#### Language Skills

Arabic, English , Japanese

#### Qualification (Career and University Education)

<b>1983-1988</b>	B. Sc. Degree (Electrical Engineering)	Average Grade "very good ", Faculty of Engineering & Technology, Menofia University, Egypt.
<b>1993-1998</b>	MS. C. Degree (Control Engineering)	Faculty of Engineering, Cairo University, Egypt.
<b>2000-2005</b>	PhD Degree (Computer and Control Engineering)	Faculty of Engineering, Cairo University, Egypt & Tohoku University, Japan (Channel System)

#### Career

<b>1993-1998</b>	Assistant Researcher, National Research Institute of Astronomy and Geophysics, Helwan, Cairo, Egypt
<b>1997-2001</b>	Lecturer at Labor University, Cairo, Egypt (part time work)
<b>1998-2005</b>	Researcher Assistant, National Research Institute of Astronomy and Geophysics, Helwan, Cairo, Egypt
<b>2005-2011</b>	Assistant Professor, National Research Institute of Astronomy and Geophysics, Helwan, Cairo, Egypt
<b>2006-2008</b>	Assistant Professor at the Higher Technical Institute, 10th of Ramadan city Egypt (part time work)
<b>2008-Now</b>	Assistant Professor & Head of Computer Science Dept., College of Science in Zulfi, Majmaah University, Saudi Arabia
<b>2011-Now</b>	Associate Professor Degree , National Research Institute of Astronomy and Geophysics, Helwan, Cairo, Egypt

#### Short Visits

1996	One month visiting researcher assistant, Padova University, Italy.
2002-2004	Ph.D. special research student at Systems Robotics Lab., Dept. of Bioengineering and Robotics, Tohoku University, Japan
2006	Four days scientific mission to Cambridge University, England.
2007	Two weeks scientific mission to Bradford University, England.

## Publications

**Y. A. Azzam**, G.B. Ali, F. Elnagahy, H. A. Ismail, A. Haroon and I. Selim, "Current and Future Capabilities of the 74-inch Telescope of Kottamia Astronomical Observatory in Egypt", UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, hosted by the National Astronomical observatory of Japan on behalf of the Government of Japan, Tokyo, 18-22 June 2007

A.M. Riad, Hamdy K. Elminir, Hala S. Own and **Yosry A. Azzam**, "Testing the applicability of artificial intelligence techniques to the subject of erythema ultraviolet solar radiation Part one: The applicability of a fuzzy rule based approach", Journal of Photochemistry and Photobiology B: Biology, 90 (2008) 95-10

Hamdy K. Elminir", Hala S. Own, Yosry **A. Azzam** and A.M. Riad, "Testing the applicability of artificial intelligence techniques to the subject of erythema ultraviolet solar radiation Part two: an intelligent system based on multi classifier technique", Journal of Photochemistry and Photobiology B: Biology, 90 (2008) 198-206

A. Essam, A. Naklawy, A. A. Haroon, M. A. Hamdy, G. B. Ali, H. A. Ismail, I. M. Selim, **Y. A. Azzam**, and F. I. Elnagahy, " New CCD photometric observations of W-UMA eclipsing binary NSV 5904 using the 1.88-m Kottamia telescope, Egypt ", NRIAG Journal of Astronomy and Astrophysics, Special Issue (2010)

M.S. Gafar and **Y. A. Azzam**, "Acoustic Relaxation of Some Lead Niobium Tellurite Glasses", Bulletin of Materials Science, (under review).

R. El-Mallawany, M. S. Gaafa, and **Y. A. Azzam**, "Prediction of Ultrasonic Parameters at low Temperatures for Tellurite Glasses." Journal of Materials Letters, (under review).

**Y. A. Azzam**, Afaf M. Abd El Hameed, Fatma S. El-Tokhy, Mohamed Ismail, M. El\_harony, and S.M. Sharaf, "Investigation and Treatment of the Aluminizing Process for the Mirrors used in Astronomical Telescopes", Journal of Astrophysics and Space Research (under review)

## Teaching Experience

Computer 1 for preliminary year	CSP 001	Zulfi College of Science	Majmaah University
Computer 2 for preliminary year	CSP 002	Zulfi College of Science	Majmaah University
Logic Design	CIS 111	Zulfi College of Science	Majmaah University
Introduction to Information Systems	CIS 226	Zulfi College of Science	Majmaah University
Introduction to Computer Programming	CSC 252	Zulfi College of Science	Majmaah University
Graduation Project 1	CIS 448	Zulfi College of Science	Majmaah University
Graduation Project 2	CIS 449	Zulfi College of Science	Majmaah University
Computer Skills and Inf. Technology	Comp 010	Zulfi College of Dentistry	Majmaah University
English Language 1 for computer students	Eng 126	Zulfi College of Education	Majmaah University
English Language 2 for computer students	Eng 2212	Zulfi College of Education	Majmaah University
Digital Logic	COMP 214	Zulfi College of Education	Majmaah University

## Conferences

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2004)	Sendai, Japan	Sep.28-Oct. 2, 2004
4th International Conference on Advanced Mechatronics (ICAM04)	Asahikawa, Japan	Oct. 3-5. 2004
IEEE International Conference on Robotics and Biomimetics (ROBIO2005)	Hong Kong and Macau	June 29 - July 3, 2005



### Training Experience

"Recent trends in teaching and evaluation", Majmaah University  
 "Strategies to integrate technology in teaching", Majmaah University  
 "Scientific research skills", Majmaah University  
 "Curriculum design and development", Majmaah University

### Practical Skills

Head of Computer Science Dept., College of Science in Zulfi, Majmaah University, Saudi Arabia  
 Member and head of many Committees, Department of Computer Science and Information, College of Science in Zulfi, Majmaah University, 2008-now.  
 Practical experience in Robotics and vision control of Robots  
 Computer Programming in C, C++ and MATLAB  
 Referee of information systems and technology projects introduced to Saudi Universities  
 Principal and Co-investigator of many research Projects introduced to Majmaah university

### Associative Professor Hassan Abdel-Tawab Mohamed Aly



Associative Professor  
 Computer Science and Information Department  
 College of Science at AzZulfi  
 Majmaah University

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### Research Interests:

Cryptography: RSA, Dickson System, AES, Hash Functions.  
 Cryptanalysis: Attacking of RSA, Attacking of AES, Hash function collisions.  
 Binary sequences: Design of binary sequences, linear complexity and k-error linear complexity.  
 Nonlinear functions: Perfect nonlinear functions, Almost perfect nonlinear functions.

### Language Skills

Arabic, English , German.

### Qualification (Career and University Education)

1983-1987	B. Sc. Degree (Mathematics and Computer Science)	Average Grade "very good", Faculty of Science, Cairo University, Egypt.
1989-1992	MS. C. Degree (Computer Science)	Faculty of Science, Cairo University, Egypt.
1996-2001	Dr. Rer. Nat. (Computer Science )	Klagenfurt University, Austria

<b>Career</b>	
1988-1992	Demonstrator , Computer Science Division at Department of Mathematics, Faculty of Science, Cairo University, Egypt
1992-1993	Teaching Assistant, Computer Science Division at Department of Mathematics, Faculty of Science, Cairo University, Egypt.
1993-1994	PhD. Research Student at the technical university of Vienna, Austria
1994-1997	PhD. Research Student at the university of Klagenfurt, Austria
1997-2000	Lecturer at Computer Science Division at Department of Mathematics, Faculty of Science, Cairo University, Egypt.
2000-2006	Lecturer at Faculty of Science, King Faisal University, Al-hofuf, KSA.
2006-2010	Lecturer at Computer Science Division at Department of Mathematics, Faculty of Science, Cairo University, Egypt.
2010-2012	Associative Professor, Computer Science Division at Department of Mathematics, Faculty of Science, Cairo University, Egypt.
2012- Now	Associative Professor, Computer Science and Information Department, Faculty of Science, Majmaah University, KSA.

<b>Short Visits</b>	
<b>July-Aug 1998</b>	Visit to Klagenfurt University, Austria
<b>June-July 2004</b>	Visit to Linz University at RICAM, Austria
<b>June-July 2005</b>	Visit to Linz University at RICAM, Austria
<b>June-July 2007</b>	Visit to Linz University at RICAM, Austria
<b>March-July 2008</b>	Visit to Linz University at RICAM, Austria
<b>April-May 2010</b>	Visit to Linz University at RICAM, Austria
<b>Publications</b>	

M.Sc. thesis entitled: Operating Systems Security: Design and Evaluation. Cairo University. 1991.

Ph.D. dissertation entitled: Design and Analysis of public key cryptosystems over finite abelian groups. Klagenfurt University, 1997.

Aly, H. and Mueller, W.B. Public-key Cryptosystems based on Dickson Polynomials. In Pribyl, J.(editor): Proc. of the 1<sup>st</sup> international Conferences on the theory and Applications of Cryptology, PRAGOCRYPT'96, CTU Publishing House, 1996, 493—504.

Aly, H. and Winterhof, A. On the linear complexity profile of nonlinear congruential pseudorandom number generators with Dickson polynomials, Designs, Codes and Cryptography 39 (2006), 155—162.

Aly, H. and Winterhof, A. Polynomial representation of the Lucas logarithm, Finite Fields and their Applications, 12 (2006), 413-424

Aly, H. and Winterhof, A. On the k-error linear complexity over  $F_p$  of Legendre and Sidelnikov sequences, Designs, Codes and Cryptography 40 (2006), 369--374.

Aly H., Meidl, W. and Winterhof, A. On the k-error linear complexity of cyclotomic sequences, Journal of Mathematical Cryptology, vol.1, no. 3, pp. 283-296, 2007.

Aly, H. and Meidl W., On the linear complexity and k-error linear complexity over  $GF(p)$  of the d-ary Sidelnikov sequences, IEEE-IT vol. 53, no 12, 4755-4761, December 2007.

Aly, H. and R. Shaheen, Cycles structure of permutations induced by perfect nonlinear functions over finite fields. A talk at FQ9, Dublin. 2009.

Aly, H., R. Marzouq, and W. Meidl. On the calculations of the linear complexity of *un*-periodic sequences. Contemporary Mathematics, vol 518, pp 11-22, AMS, 2011.

Aly, H. Winterhof, A. "Boolean functions derives from Fermat Quotients", Cryptography and Communications, vol. 3, 165-174, 2011.

Aly, H. and Elgayyar M. "Attacking AES using Modern Processors", AFRICACRYPT 2013, LNCS vol. 7918, pp. 127-139, 2013,

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#### Teaching Experience

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Among so many courses I have taught before, the most courses I like to teach:

Design and Analysis of Algorithms  
 Data Structures  
 Cryptography and Information Security  
 Network Security  
 Computational Complexity  
 Theory of Computations  
 Compiler design  
 Programming Languages

#### Conferences (in the last five years)

Fq9 Conference	Dublin, Ireland	2010
Africacrypt 2013 Conference	Cairo, Egypt	2013

#### Dr. Eng. Moustafa Reda AbdALLAH Eltantawi



Dr. Eng. Moustafa Reda AbdALLAH Eltantawi  
 Assistant Professor  
 Department of Computer Science and Information  
 Faculty of Science, AlZulfi  
 Majmaah university

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Office:	Room S142
Link to Homepage:	
Marital Status:	Married, Four Children

#### Research Interests:

Analysis, Reconstruction, Measuring Software Quality of Programming Languages, R.E. processes  
 Image Processing,  
 Cryptography.

#### Language Skills

Arabic, English , Italian

#### Qualification (Career and University Education)

1973-1978	B. Sc. Degree	Grade "Very Good, with class honor", Department of Electronics and Communications, Faculty of Engineering, Cairo University.
1978-1980	B. Sc. Degree	Grade "Very Good, with class honor", Department of Physics Faculty of Science, Cairo University.

1980-1986	M. Sc. Degree	Department of Engineering Mathematics & Physics, Faculty of Engineering, Cairo University.
1987- 1991	Ph. D. Researcher	Department of Engineering Mathematics & Physics, Faculty of Engineering, Cairo University.
1991- 1995	Ph. D. Degree	Department of Informatics, Faculty of Engineering, University of Naples, Italy.

### Career

1978-1986	Demonstrator at Department Of Engineering Mathematics & Physics, Faculty of Engineering, Cairo University.
1986-1996	Teaching Assistant at Department Of Engineering Mathematics & Physics, Faculty of Engineering, Cairo University.
1996-1998	Assistant Professor at Department Of Engineering Mathematics & Physics, Faculty of Engineering, Cairo University.
1998 Till now	Assistant Professor at Department Of Computer Science, Faculty of Computers and Information, Cairo University.
2011 Till now	Assistant Professor at Department Of Computer Science and Information, Faculty of Science, AlZulfi, Majmaah University.

### Short Visits

July 1976:	Iraq
July - Sep.1976 :	Jordan
Jan. 1983 & Jan 1984 & Sep 1987 & June-July 1989 & March-April 2000 :	KSA
July-Sep 1986	Scientific Exchange, Department of Electric Engineering, Faculty of engineering, Twentee University, Enschede Holland.
July 1996, July 1997, and August 1998	Frankfurt, Germany,

### Publications (Papers)

- M. Abbas, A. Badr, M. R. Eltantawi, "Bounding Box Object Localization Based On Image Superpixelization.", Elsevier B.V. Selection. Procedia Computer Science 13 ( 2012 ) 108 - 119.
- M. R. A. Eltantawi, A. M. Abdelshfouk, "A Proposed Algorithm for a DNA-Based Cryptography and Steganography Techniques", **UWS Journal**, Vol14, No. 3, PP. 43-45, Oct 2010.
- M. R. A. Eltantawi, A. M. Abdel-Moneim, M. M. Abdel-Aziz , "A Turing Machine Design for Decision Support in Insurance Companies" , Journal of Engineering Application, Matarya faculty of engineering, Cairo, Egypt, Dec. 2006.
- Giannone, M. R. A. Eltantawi, P. Maresca , "Recursive Parser Optimization by Rewriting Context Free Grammars" , Journal of Engineering Application of Artificial Intelligence, Vol. 10, No. 6, PP. 607-615 ,1997 .
- M. R. A. Eltantawi, P. Maresca , "Logic Programming and Data Base Schema in Reverse Engineering: Analysis and Documentation for Existing Code in a Multilanguage Environment", Journal of Engineering Application of Artificial Intelligence, Vol. 9, No. 5, PP. 561-574, September, 1996 .
- M. R. A. Eltantawi, P. Maresca, "Application of Logic Programming in Languages Analysis: Documents Reconstruction from Existing Code", Journal of Engineering Applications and Artificial Intelligence , Vol. 7, No. 4, PP. 427-437, August 1994 .
- M. R. A. Eltantawi, P. Maresca , "A Methodology and a Tool to construct Documentation From FORTRAN, C and PL/1 Languages", CNR Internal Report. Sistemi Informatici e Calcolo Parallelo, No. P/ 06/191, LUGLIO 1993 .
- M. N. Mikhail, M. R. A. Eltantawi, " Effect Of The Medium Viscosity On Sound Propagation And Attenuation In Ducts", Journal of Computational and Applied Mathematics 45(1993), PP. 283-298, North

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Holland.

M. N. Mikhail, M. R. A. Eltantawi, " The Acoustic Boundary Layers: A Detailed Analysis", Journal of Computational and Applied Mathematics, 1993

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### Publications (Math. Books)

Basic Mathematics For Engineering and Computer Science: Three Volumes .

Structured Mathematics For Engineering and Computer Science: Two volumes.

Advanced Mathematics For Engineering and Computer Science: Three Volumes.

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### Publications (Computer Courses)

Introduction To Computer Science Concepts - Faculty of Commerce & Business - Qassim University, KSA, 2007.

Introduction To Management I.S. : Faculty of Commerce & Business - Qassim University, KSA, 2007.

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### Publications (Electronic Courses)

"Differential and Integral Calculus"; at the Sector of "Learning and Technology", in the "Open Education", Cairo University; For the Techreen University in Syria, 2005 - 2006 .

"Digital Image Processing" for the FCI, Fayoum University, Jan. /2010 - Sep. /2011 .

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### Teaching Experience

#### In KSA

Introduction to Computer Science	CSP 001Z	Zulfi Science	Majmaah University
Technical English	ENG 210	Zulfi Science	Majmaah University
Discrete Math For Computer Science 1	CSI 212	Zulfi Science	Majmaah University
Fundamentals of Information Systems	CSI 224	Zulfi Science	Majmaah University
Computational Methods	CSI 444	Zulfi Science	Majmaah University
Operational Research	CSI 445	Zulfi Science	Majmaah University
Introduction to Computer Concepts and Programming	MIS231	Business & Commercs	Qasseem University
Introduction to Management Information Systems	MIS242	Business & Commercs	Qasseem University
Business Applications Development	MIS353	Business & Commercs	Qasseem University
Management Information Systems	MIS361	Business & Commercs	Qasseem University
Business Systems Analysis and Design	MIS364	Business & Commercs	Qasseem University
Database Management	MIS365	Business & Commercs	Qasseem University

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### Teaching Experience

#### In Egypt

Cairo University (CU): **All the Undergraduate & Post Graduate Math Courses** in the Faculty of Engineering, and Faculty of Computers and Information (FCI); **Theoretical And Engineering Mechanics** in the Faculty of Engineering; **Introduction to Computer Science, DB, IS, Internet, Excel** in the Faculty of Physical Therapy, Faculty of Veterinary Medicine, Faculty of Nursing, Faculty of Pharmacy

Fayoum University : Software Engineering, Computational Methods, Image Processing, and **All the Undergraduate Graduate Math Courses**.

Benha University : **All the Undergraduate Graduate Math Courses** Faculty of Computers and Information.

MSA University: Linear Algebra, Computational Methods.

Tieba Academy: **Linear Algebra** - Must University: Introduction to Computer Science.

Technical Military College: **All the Undergraduate Graduate Math Courses**.

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### Conferences

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Attending all the Conferences that are hold in Zulfi and Majmmah during the three academic years 1432-1433, 1433-1434; and 1434-1435.

1st, 2nd, 3rd, 7th Annual Conference	FCI- CU	2002, 2004, 2005, 2010
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The Development of Mathematics Teaching During University Education within the International Quality Criteria	CU	June - 17 - 2009
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The Fourth International Conference of Scientific Research and its Application	CU	16-18 December 2008
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"Science for Life Conference"- Celebration of the 25 <sup>th</sup> Anniversary of Scientific and Cultural Co-operation between Cairo University and Ulm University.	CU	25-27 October 2008
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### Training Experience

Attending all the Quality training courses that are hold in Zulfi and Majmmah during the two academic years 1432-1433 and 1433-1434; and these in Zulfi during the 2<sup>nd</sup> Term of the academic year 1434-1435.

Attending all the Workshops that are hold in Zulfi and Majmmah during the three academic years 1432-1433, 1433-1434; and 1434-1435.

Member of the quality and academic accreditation Committee, Department of Computer Science, Faculty of Computer Science and Information, Cairo University, 2008-2011.

Benha E-Learning Center Workshop, Benha University, Faculty of Computers and Information, December 2008

Evolution of the Learning Quality Workshop, Benha University, Faculty of Computers and Information, November 2008.

### Practical Skills

Highly qualified developer of the CS-students programming capabilities to create powerful mathematical packages.

This activity continued for 11 years at FCI (Faculty of Computers and Information) in CU (Cairo University).

Experience for More than 36 years in Teaching Methods, especially the active ones, in different specialized faculties of various Universities..

Severely Experienced with the styles and methods of achieving perfect exams.

### **Prof. Dr. Ahmad Abd Allah Zedan**



**Professor Assistant**  
**Department of computer science and information**  
**Faculty of Science, Zulfi**  
**Majmaah university**

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<b>Mobile</b>	<b>+966552211510</b>
<b>Fax:</b>	<b>+96664227484</b>



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Office: Room S199  
Link to Homepage: <http://faculty.mu.edu.sa/ysalem>

#### Research Interests:

**Computer networks, Satellite networks, multimedia mobile networks, Cognitive radio and smart networks, Broadband wireless networks, Smart antenna, Wireless information technology**

#### Language Skills

Arabic, English , French

#### Qualification (Career and University Education)

1994–1998	B. Sc. Degree (Engineering)	Shubra Faculty of engineering, Cairo, zagazig University.
1999–2003	MS. C. Degree (Engineering)	Faculty of Electronic Engineering, Menouf, Menofia University.
2003–2007	PhD Degree	<u>Internal</u> part at Faculty of Electronic Engineering, Menouf, Menofia University.
2007–2010	(Engineering )	<u>External part</u> at WIT lab, Dept. Of EE, collage of Engineering, University of Washington, USA.

#### Career

1987–1990	First lieutenant, Demonstrator at Department of Computer, Military faculty of Administration, Cairo, Ministry of Defense
1990–1995	Demonstrator at Department of industrial technology, High institute of sufficient productivity, Zagazig University
1995–2003	Lecturer at Department of industrial technology, High institute of sufficient productivity, Zagazig University
2003–2004	Lecture at Department of electrical Engineering, Shubra faculty of Engineering, Zagazig University
2004–	Assistant Professor at Department of electrical Engineering, Shubra faculty of Engineering, Benha University

#### Short Visits

2007–2010	Visiting Scholar, WIT lab, Dept. Of EE, collage of Engineering, University of Washington, USA.
2011–	Visiting Lecturer for the Department of computer Science and Information, Majmaah university

#### Publication

**Mostafa Nofal, Y. Abd-Allah, O.A. Attia, K. El-Nahla and M. Kamal, “A simulation study of generic broadband integrated networks,” *Proc. of The 7th IEEE International Symposium on Personal, Indoor and Mobile Radio***

**Y. A. Mohamed, M. I. Desoky, A. O. Attia, S. M. Elnoubi, “*Simulation Study Of A***



**Generic Multimedia Wireless Networks,,"** Proc. of the SCI2002/ISAS, ORLANDO USA, **july 14-18, 2002.**

Y. A. Mohamed, D. Kivanc, H. Liu, **"PRMA with Reservation Subframe Protocol for Multimedia Services in Mobile Communication Networks,"** *Proc. of IEEE Globecom 2001, San Antonio, Texas, USA, Nov. 25-29, 2001, pp. 3538-3542.*

Y. A. Mohamed, M. I. Desoky, A. O. Attia, H. Liu, **"CDMA/PRMA With Reservation Sub-Frame Protocol For Multimedia Mobile Communications,"** Proc. of the WOC2001/IASTED International conference, Alberta, Canada, June. 27-29,2001, **pp. 33-38.**

Y. A. Mohamed, M. I. Desoky, A. O. Attia, S. M. Elnoubi, **"A New CDMA/PRMA Protocol For Multimedia Mobile Communications,"** *Proc. The 3rd International conference on informations, communications, and Signal Processing(ICICS 2001) Oct. 15-18, 2001.*

Y. A. Mohamed, M. I. Desoky, A. O. Attia, H. Liu, **"CDMA/PRMA With Piggybacked Reservation For Multimedia Services Over Mobile Communication Networks,"** *Proc. The 3rd International conference on informations, communications, and Signal Processing(ICICS 2001) Oct. 15-18, 2001..*

Y. A. Mohamed, M. I. Desoky, A. O. Attia, H. Liu, **"A New Piggybacked CDMA/PRMA Protocol For Multimedia Services Over Mobile Communication Networks,"** Proc. of the SCI2002/ISAS, ORLANDO USA, **july 14-18, 2002.**

Y. A. Mohamed," **Performance analyses of Piggybacked CDMA/PRMA protocol under different environmental conditions for forth coming mobile communication networks"** submitted to SCI2005,ISAS florida, USA.

#### Teaching Experience

1-Computer Networks Engineering	IT	Dept. of EE	Egypt
2-Computer Architectures and microprocessors	IT	Dept. of EE	Egypt
3-Computer programming Languages(Matlab,C++, java, dot Net)	CS	Faculty of education for girls	Majmaah University
4-Internet and web programming (HTML, JScript, PHP, Mysql, ASP)	CS	Zulfi Science	Majmaah University
5- Database	CSI	Zulfi Science	Majmaah University
6- Programming of Graphical user Interface	CSI	Zulfi Science	Majmaah University
7- Fundamental of Information systems	CSI	Zulfi Science	Majmaah University
8-Network routing and programming (DotNet Socket programming)	IT	Faculty of education for girls	Majmaah University
9-Telecommunications Systems	EE	Dept. of EE	Egypt
10-Programable Logic Control (PLC)	EE	Dept. of EE	Egypt
11-Electronic Devices and Circuits	EE	Dept. of EE	Egypt
12-Power Electronics	EE	Dept. of EE	Egypt
13-Antennas and Wave propagations	EE	Dept. of EE	Egypt

#### Conferences

Twelfth National Radio Science Conference (NRSC-12),

Alexandria, Egypt, March 21-23, 1995.

The International Conference on Wireless and Optical Communications, (WOC2001), Calgary, Alberta, Canada, July 27-29, 2001.

The IEEE Vehicular Technology Conference Fall 2001 (VTC'2001), Atlantic City, NJ USA, **Oct. 7-11, 2001.**

*IEEE Globecom 2001, San Antonio, Texas, USA, Nov. 25-29, 2001.*

The 6<sup>th</sup> World Multi-conference on Systemics, Cybernetics, and Informatics (SCI '2002), ORLANDO USA,

### Training Experience

Training "Effective communication skills ", Benha University , Egypt

Training "Effective teaching skills", Benha University , Egypt

Training "Using computer in Educations", Benha University , Egypt

Training " Scientific Writing" Benha University , Egypt

Training " Building curaculas ", Majmaah University , Saudi Arabia

Training " The culture of E-learning" Majmaah University , Saudi Arabia

Training " The Skills of E-learning" Majmaah University , Saudi Arabia

**Workshop "assessments and exam building"** Majmaah University , Saudi Arabia

**Workshop " Education strategy and E-learning"** Majmaah University , Saudi Arabia

**Workshop " Methods of Assessments"** Majmaah University , Saudi Arabia

### Practical Skills

Managing and group leader as officer in Egyptian army

Building curricula for vocational and educational institutions

Mentor track

Scientific Research

Teaching and Assessments

Community services

## Dr. Mohamed Wagieh Mostafa Abo El-Soud



Associate Professor  
Computer Science and Information Department  
College of Science, Zulfi  
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### Research Interests:

Network Security

Language Skills

Arabic, English , German

### Qualification (Career and University Education)

1993-1997	B. Sc. Degree (Computer Science & Mathematics)	Average Grade "very good ", Faculty of Science , Menofia University, Egypt.
2000-2003	MS. C. Degree (Computer Science)	Faculty of Science, Menofia University, Egypt.
2005-2010	PhD Degree (Computer Science)	Faculty of Science, Suez Canal University, Egypt & Harburg University, German (Channel System)

### Career

1998-2003	Demonstrate at Statistics and Insurance Department, Computer Science, Faculty of Commerce, Suez Canal University, Ismailia, Egypt
2003-2010	Assistant lecturer at Statistics and Insurance Department, Computer Science, Faculty of Commerce, Suez Canal University, Ismailia, Egypt
2010-Now	Lecturer at Information System Department, Faculty of Computers & Information System, Suez Canal University, Ismailia, Egypt
2010-Now	Director of Information & Communication Network ,Suez Canal University, Ismailia, Egypt

### Short Visits

2007-2009	Ph.D. A Framework of Network Security, Dept. of Security, TUHH University, German
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### Publications

Dieter Gollmann, Fatma A. Omara, **Mohamed W. Abo El-Soud**, " Ancestors protocol for scalable key management", Egyptian Informatics Journal,(11):11-17, 2010.

Dieter Gollmann, Fatma A. Omara, **Mohamed W. Abo El-Soud**, " New Protocols for Scalable Multicast Group Key Management ", International Journal of Advanced Research (JAR), 2010.

### Teaching Experience

Computer 1 for preliminary year	CSP 001	Zulfi College of Science	Majmaah University
Computer 2 for preliminary year	CSP 002	Zulfi College of Science	Majmaah University
Logic Design	CIS 111	Zulfi College of Science	Majmaah University
Visual Programming	CIS 224	Zulfi College of Science	Majmaah University
Programming1	CIS 152	Zulfi College of Science	Majmaah University
Graduation Project 1	CIS 448	Zulfi College of Science	Majmaah University
Graduation Project 2	CIS 449	Zulfi College of Science	Majmaah University
Computer Skills and Inf. Technology	Comp 010	Zulfi College of Dentistry	Majmaah University
Compiler Design	CIS 338	Zulfi College of Education	Majmaah University
Ecommerce	CIS 480	Zulfi College of Education	Majmaah University
DataBase1	CIS 125	Zulfi College of Education	Majmaah University

### Conferences

IEEE seventh International Conference on Informatics and Systems, (INFOS 2010)	Cairo Egypt	March 24-26, 2010
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### Training Experience

The uses of computers is in business, office management and secretarial work.

Management of the research team program.

Educational of professional preparation basic university teacher programs (effective teaching - the use of technology in teaching – mini teaching).

Professional Ethics programs.

### Practical Skills

Head of the quality and accreditation Committee, Department of Computer Science and Information, Zulfi College of Science, Majmaah University, Saudi Arabia.

Head of E-Learning Committees, Department of Computer and Information, College of Science in Zulfi, Majmaah University, Saudi Arabia..

Computer Programming in C, C++ and Java

Net, and TCL Language

Latex

## Dr. Zeiad Mohammed El-Saghir Abdoun



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**Computer Science and Information Department**  
**College of Science, Zulfi**  
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### Research Interests:

Congestion Control in Computer Networks, ATM Networks, and VANETs

Digital Design and Embedded Systems Design

ATM Switch Design and Analysis

### Language Skills

Arabic, English , Polish

### Qualification (Career and University Education)

1983-1988	B. Sc. Degree (Electronics)	Average Grade "very good with honor ", Faculty of Electronic Engineering, Menofia University, Egypt.
1990-1994	MS. C. Degree (Computer Science and Engineering)	Faculty of Electronic Engineering, Menofia University, Egypt.
1996-2001	PhD Degree (Computer Science and Engineering)	Institute of Control and Systems Engineering, Technical University of Wroclaw, Poland.

### Career

1990-1994	Assistant lecturer at Computer Science and Engineering Department, Faculty of Electronic Engineering, Menofia University, Egypt
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1994-1996	Lecturer at Computer Science and Engineering Department, Faculty of Electronic Engineering, Menofia University, Egypt
1996-2001	PhD. Research Student at the Institute of Control and Systems Engineering, Technical University of Wroclaw, Poland
2001-2003	Assistant Professor at Computer Science and Engineering Department, Faculty of Electronic Engineering, Menofia University, Egypt
2003-2008	Assistant Professor at Higher Institute of Engineering, Hoon, Libya
2008-2013	Assistant Professor at Computer Science and Engineering Department, Faculty of Electronic Engineering, Menofia University, Egypt
2013-Now	Assistant Professor at Computer Science and Information, Faculty of Science, Majmaah University , Saudi Arabia

#### Short Visits

2003	Visiting Assistant Professor, Department of Computer Science, Tanta University, Egypt
2010	Visiting Assistant Professor, College of Computer Science, Modern Academy, Egypt
2012	Visiting Assistant Professor, Department of Computer Science, Tanta University, Egypt
2013	Visiting Assistant Professor, Faculty of Engineering, Menofia University, Egypt

#### Publication

Zeiad El-Saghir, et al., "A Study of a Modified Histogram Based Fast Enhancement Algorithm (MHBFE)", Signal & Image Processing: An International Journal (SIPIJ), Vol.5, No.1, pp. 55-67, February 2014.

Zeiad El-Saghir, et al., "Enhanced Random Early Detection (ENRED) Algorithm", International Journal of Computer Applications, 2014.

Zeiad El-Saghir, et al., "A Modified Histogram Based Fast Enhancement Algorithm", SIP2014 Conference, pp. 261-269, 2014.

Zeiad El-Saghir, et al., "Efficient Implementation model for Public Geographic Information System: Case Study", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-1, Issue-4, September 2012, PP 32-34.

Zeiad El-Saghir, et al., "Data Quality in Software as a Service Implementation of Public Geographic Information System", International Journal of Electronics Communication and Computer Engineering (IJECCCE), Volume 3, Issue 5, ISSN (Online): 2249-071X, PP 852-855.

Zeiad El-Saghir, et al., "Survey on Random Early Detection Mechanism and its Variants", IOSR Journal of Computer Engineering (IOSRJCE), Volume 2, Issue 6 (July-Aug. 2012), PP 20-24.

Zeiad El-Saghir, et al., "FPGA Based Design of Smith-Waterman Algorithm", International Journal of Intelligent Computing and Information Sciences, Ain Shams University, July 2011.

#### Teaching Experience

Software Engineering	CSI	Zulfi Science	Majmaah University
Assembly Language	CSI	Zulfi Science	Majmaah University
Information Systems	CSI	Zulfi Science	Majmaah University
Embedded Systems	CSE	Menofia Science & Eng.	Menofia University
Computer Networks	CSE	Menofia Science & Eng	Menofia University
Logic Design with VHDL	CSE	Menofia Science & Eng	Menofia University
Computer Architecture	CSE	Menofia Science & Eng	Menofia University

Digital Data Transfer	CSE	Menofia <b>Science</b> & Eng	Menofia University
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#### Conferences

SIP2014 Conference	Hinan Island, China	2014
ICT2001 Conference	Bucharest, Romania	2001
APCC200 Conference	Seoul, Korea	2000
IEEE CQR2000	Athens, Greece	2000

#### Training Experience

Training "Software Engineering & Testing", SQS Egypt (Software Quality Systems), Cairo, Egypt, 2013.
Training "Embedded Systems Design and Programming", Menofia University, Egypt, 2008-2013.
Training "Google Scholar Applications", Menofia University, Egypt, 2012.

#### Practical Skills

Member of the quality and academic accreditation Committee, Department of Computer Science and Engineering, Faculty of Electronic Engineering, Menofia University, 2010-2012.
Executive Director of Information Technology Unit, Faculty of Electronic Engineering, Menofia University, 2012-2013.
Embedded Systems Design and Programming, 2008-2013.
Digital Design using FPGA and VHDL, 2010-2013.

### Dr. Wael Mohamed Khedr



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#### Research Interests:

Artificial Neural Networks  
Digital Image Processing  
Pattern Recognitions

#### Language Skills

Arabic, English , Russian

#### Qualification (Career and University Education)

1990-1994	B. Sc. Degree (Computer Science & Statistics)	Average Grade "very good with honor ", Mathematics Dept., Faculty of Science, Zagazig University, Egypt.
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1995-1999	MS. C. Degree (Computer Science )	Mathematics Dept., Faculty of Science, Zagazig University, Egypt.
2001-2005	PhD Degree (Computer Science )	Faculty of Mathematics & Mechanics , National Kazakhstan University(Alfarabi) , Kazakhstan.

### Career

1995-1999	Demonstrator at Mathematics department, Computer Science branch, Faculty of Science Zagazig University, Egypt.
1999-2004	Assistant lecturer at Mathematics department, Computer Science branch, Faculty of Science Zagazig University, Egypt.
2005-2013	Lecturer of Computer Sciences at Mathematics department, Computer Science branch, Faculty of Science Zagazig University, Egypt.
2013-Now	Assistant Professor at Computer Science and Information, Faculty of Science - Zulfi, Majmaah University , Saudi Arabia.

### Short Visits

2005-2007,	Visiting lecturer , Department of Computer Science, High Technology Institute Asher, Egypt .
2012-2013	Visiting lecturer , Department of Computer Science, Faculty of Computer Science, Sues University , Egypt
2011-2012	Visiting lecturer , Department of Computer Science , Faculty of Computer Science, Zagazig University, Egypt.

### Publication

Wael Khedr , Rehab Ali , Fawzan Ismail , "Image Denoising using K-SVD Algorithm based on Gabor Wavelet Dictionary, ", International Journal of Computer Applications (0975 – 8887) Volume 59– No.2, December 2012.

Wael M. Khedr & M. E. ABD EL AZIZ, S. M. Amer, " A Novel Algorithm for Multichannel Deconvolution based on  $\alpha\beta$  -Divergence , International Journal of Computer Applications (0975 – 8887) Volume 57– No.10, November 2012

W. Khedr and M. E. Abd El Aziz ,Signal Separation using Non-negative Matrix Factorization Based on R1-norm , Life Science Journal 2012;9(4) .

M. E. ABD EL AZIZ & WAEL KEDER " SPARSE NONNEGATIVE MATRIX BASED ON  $\alpha\beta$ -DIVERGENCE FOR SINGLE CHANNEL SEPARATION IN COCHLEAGRAM ", International Journal of Mathematics and Computer Applications Research (IJMCAR), ISSN 2249-6955 Vol. 2 Issue 4 Dec 2012 11-24.

Wael M. Khedr and Qammar A. Awad, " Study of Fourier Descriptors and its Laplace Transform for Image Recognition." Matrical Science Research India vol.8(2), 241-245 ,2011.

Wael M. Khedr and Qammar A. Awad, " Neural Network and Adaptive feature Extraction Technique for Pattern Recognition", Matrical Science Research India vol.8(1), 1-6 ,2011.

### Teaching Experience

Data Structure	CSI	Zulfi Science	Majmaah University
Data Mining	CSI	Zulfi Science	Majmaah University

Object Oriented Prog. C++	CSI	Zulfi Science	Majmaah University
Digital Image Processing	CSI	Math. Dept. Faculty of Science	Zagazig University
Artificial Neural Networks	CS	Math. Dept. Faculty of Science	Zagazig University
Artificial Intelligent	CS	Math. Dept. Faculty of Science	Zagazig University
Computer Architecture	CS	Math. Dept. Faculty of Science	Zagazig University
Database Oracle PL/SQL	CS	Math. Dept. Faculty of Science	Zagazig University
SPSSWIN/ Matlab Tools	CS	Math. Dept. Faculty of Science	Zagazig University

### Conferences

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### Training Experience

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### Practical Skills

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## Dr.Loai Kayed Hassen Bani-Melhim



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### Research Interests:

Intrusion Detection System (IDS), Intrusion Prevention System (IPS)



Botnet Detection and Malware Protection and Detection.
Sustainable Energy(Solar System).
<b>Language Skills</b>
Arabic, English

<b>Qualification (Career and University Education)</b>		
1992-1998	B. Sc. Degree (Computer Engineering)	Average Grade “very good “,Jordan University for Science and Technology, Irbed, Jordan.
2002-2005	MS. C. Degree (Computer Information Systems)	Arab Academy / Faculty of Information Systems & Technology, Amman – Jordan.
2009-2013	PhD Degree (Advanced Internet Security and Monitoring)	Universiti Sains Malaysia (USM), Malaysia.

<b>Career</b>	
1999-2004	Instructor at Al-Balqa Applied University/ Al-Shobak University College, Maan, Jordan.
2003-2004	Certified TrainerCenter of Development and Vocational Training, Maan, Jordan.
2004-2009	Instructor at Al-Balqa Applied University/ Al-Huson University college, Irbed, Jordan.
2009-2013	Research Officer at National Advanced IPv6 Centre of Excellence (NAv6).
2010-Now	Lecturer at Computer Science and Information, Faculty of Science, Majmaah University , Saudi Arabia

<b>Publication</b>
Loai Kayed, Basil AsSadhan, Ahmed Manasreh, Ammar Almomani “Network Monitoring Through Network Traffic Reduction and Representation” Name of journal:– Elsevier Editorial System(tm) for Computers & Security ,indexed: impact factor-Article No: COSE-D-11-00314 , status: under revision.
Ammar Ali Deeb Al-Momani, Tat-Chee Wan, Karim Al-Saedi, Altyeb Altaher, Sureswaran Ramadass, Ahmad Manasrah, Loai Kayed and Mohammad Anbar “An Online Model on Evolving Phishing E-mail Detection and Classification Method“, journal of applied science, Indexed : ISI & IMPACT FACTOR, ISSN 1812-5654/doi:10.3923/jas.2011,Asia Network for Scientific Information, Status: accepted and published, vol: 11, 11: 3301-3307,2011 <a href="http://scialert.net/fulltext/?doi=jas.0000.32659.32659&amp;org=11#ref">http://scialert.net/fulltext/?doi=jas.0000.32659.32659&amp;org=11#ref</a>
Loai Kayed, “Network Traffic Reduction to Enhance Network Monitoring” IEEJ Transactions on Electrical and Electronic Engineering”. Indexed: ISI & IMPACT FACTOR, Print ISSN: 1931-4973, Online ISSN: 1931-4981 IEEJ Paper Management System -TEEE:C ,indexed: impact factor-Article No: C12-022.
Loai Kayed, Basil AsSadhan, Ahmed Manasreh, Ammar Almomani, Tat-Chee Wan. “Network Traffic Reduction and Representation” IJCA International Journal of Computer Applications”. IMPACT FACTOR, Online ISSN: 0975 – 8887, Accepted for Publication. Paper reference id pxc3881831.
Loai Kayed, Ammar Almomani, Ammar Waysi Mahmood, Tat-Chee Wan, Sureswaran Ramadass “Passive Botnet detection System Based on Signal Processing and Discrete Time Analysis.” Journal of Computer Science”, ISSN: 1549-3636 Type: Monthly, Serial # of the manuscript is 2887-JCS, status: Accepted.
Loai Kayed, Ammar Almomani, Tat-Chee Wan, Sureswaran Ramadass “Real Time Botnet detection System.” Name of journal: The Computer Journal - manuscript submitted - COMPJ-2012-07-0445 Online ISSN 1460-2067 - Indexed: ISI & IMPACT FACTOR status: Accepted for Publication.
Mohammed Jamil Elhalabi, Selvakumar Manickam, Loai Bani Melhim, Mohammed Anbar and Huda Alhalabi “A REVIEW OF PEER-TO-PEER BOTNET DETECTION TECHNIQUES” Name of journal:– Journal of Computer Science 10 (1): 169-177, 2014, ISSN: 1549-3636, indexed: impact factor-Article No: COSE-D-11-00314 , status: Published Online 10 (1) 2014 ( <a href="http://www.thescipub.com/jcs.toc">http://www.thescipub.com/jcs.toc</a> ).

## Mr. Sami Mahmoud Smadi



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### Research Interests:

Phishing in Computer Networks Security

Neural Network

Data Mining

### Language Skills

Arabic, English

### Qualification (Career and University Education)

2004-2006	Master degree in Computer Science	Yarmouk University, Irbid-Jordan. <a href="http://www.yu.edu.jo">www.yu.edu.jo</a>
1999-2003	B.Sc. degree in Computer Science	Hashemite University, zarqa-Jordan. (1999-2003). <a href="http://www.hu.edu.jo">www.hu.edu.jo</a>

### Career

2003 - 2006	Instructor in governmental school, Ministry of education, Jordan
2006-2009	Lecturer at Al-Balqa Applied University.
2009-Now	Lecturer at Al-Majmaah University, Zulfi, Saudi Arabia

### Teaching Experience

Operating Systems	CSI	Zulfi Science	Majmaah University
Assembly Language	CSI	Zulfi Science	Majmaah University

Algorithm Analysis & Design	CSI	Zulfi Science	Majmaah University
Compiler Design	CSI	Zulfi Science	Majmaah University
Computer Networks	CSI	Zulfi Science	Majmaah University
Logic Design	CSI	Zulfi Science	Majmaah University
Computer Architecture	<b>CSI</b>	Zulfi Science	Majmaah University

### Training Experience

- Oracle Workshop (Center for Studies in the Hashemite University).

### Practical Skills

#### Programming languages:

ASP/VB Script, Java Script, HTML, SQL, PL/SQL, Java, C/C++, VB.

#### Development Tools:

Oracle Developer 6i (Forms, Reports), MS-Access, Flash, Adobe Photoshop, Front Page, Visual Studio, Matlab, Weka.

### MR. Issa Mohammad Alsmadi



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### Research Interests:

Phishing emails, Signature Verification.

### Language Skills

Arabic, English

### Qualification (Career and University Education)

1999-2003	B. Sc. Degree (computer science)	Grade "very good ",Yarmouk University, Irbid-Jordan.
2003-2006	MS. C. Degree (computer science)	Grade "very good ",Yarmouk University, Irbid-Jordan.

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**Career**

2003-2007	Instructor in governmental school.
2003-2007	Trainer of International Computer Driving License (ICDL).
2007-2009	Lecture at Department of computer science, Al_ Huson College, Al-Balqa Applied University.(part time)
2010-	Lecture at Department of Mathematics , Faculty of Science, Majmaah university , Saudi Arabia

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**Short Visits**

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**Publication**

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**Teaching Experience**

Concept of algorithm	CIS 244	Zulfi Science	Majmaah University
Decision support system	CIS 465	Zulfi Science	Majmaah University
Distributed system	CIS 458	Zulfi Science	Majmaah University
Computer Graphics	CIS 414	Zulfi Science	Majmaah University
Programming 1	CSI 211	Zulfi Science	Majmaah University
Data Base 1	CSI 125	Zulfi Science	Majmaah University
DataBase2	CSI 326	Zulfi Science	Majmaah University
Computer skill	PCOM 111	Zulfi Science	Majmaah University
Information System	CSI 244	Zulfi Science	Majmaah University
Object Oriented Programming	30801203	Al_ Huson College	Al-Balqa Applied University
Compiler	30801313	Al_ Huson College	Al-Balqa Applied University
Computer Network	30801266	Al_ Huson College	Al-Balqa Applied University

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**Conferences**

Training Experience	Majmaah University
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E-Learning	Majmaah University
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**Practical Skills**


Programming languages: ASP/VB Script, Java Script, HTML, SQL, PL/SQL, Java, C/C++, VB.

Development Tools: Developer 6i (Forms, Reports), MS-Access, Flash, Adobe Photoshop, Front Page, Visual Basic, Matlab.

Database: Oracle 10g, Sql server 2008,MS-Access.

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**Mr. Mohammad M.K. ALAUTHMAN**

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<b>Research Interests:</b>		
Network monitoring		
Intrusion detection system		
Botnet detection		
<b>Language Skills</b>		
Arabic, English		

<b>Qualification (Career and University Education)</b>		
2012- present	PhD (candidate) in Computer Science	Northumbria University at Newcastle, UK
2004-2005	Master degree in Computer Science	Amman Arab University, Amman-Jordan
2003-2004	Higher Diploma in Computer Science	Amman Arab University, Amman-Jordan
1998-2002	B.Sc. degree in Computer Science	Hashemite University, zarqa-Jordan

<b>Career</b>	
2008 - Present	Lecturer of Majmmah University (KSA).

2007 - 2008	Lecturer of Al-Balqa Applied University(Jordan) (part time)
2007 – 2008	Trainer of Course of Oracle in Al-Balqa Applied University(Jordan)
2003 - 2007	Trainer of International Computer Driving License (ICDL).
2002 - 2008	Teacher in government school (Jordan)

Teaching Experience			
Operating System Concept.	CSI	Zulfi Science	Majmaah University
Discreet Mathematics.	CSI	Zulfi Science	Majmaah University
Algorithms and Data Structures.	CSI	Zulfi Science	Majmaah University
Internet Techniques & web programming.	CSI	Zulfi Science	Majmaah University
Computer skills.	CSI	Zulfi Science	Majmaah University
Artificial intelligence.	CSI	Zulfi Science	Majmaah University
Security and cryptography.	CSI	Zulfi Science	Majmaah University
Programming language (java, C, C++).	CSI	Zulfi Science	Majmaah University
Data mining concept.	CSI	Zulfi Science	Majmaah University
Software engineering.	CSI	Zulfi Science	Majmaah University

### Lecturer Mohammad Ali AL-Khaldy



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### Research Interests:

Data Base , Object Oriented programming , Wireless sensor networks

### Language Skills

Arabic, English

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**Qualification (Career and University Education)**

1998-2003	B. Sc. Degree (Computer Science)	Faculty of Information Technology, Mafraq, AL al-Bayt University.
1999-2003	MS. C. Degree (Computer Science)	Faculty of Computing, Amman, Amman Arab University.

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**Career**

2003-2009	Computer Science teacher, Amman , Ministry of Education.
2009-2010	Lecturer at Department of Computer Science, faculty of Information technology, Amman, Jordan University
2010-2011	Lecture at of AlKhaleej company, Riyadh ,Saudi Arabia
2011-	Lecturer at Department of Computer Science and Information , Faculty of Science, Majmaah university , Saudi Arabia

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**Teaching Experience**

Object Oriented Programming	CIS	Zulfi Science	Majmaah University
Data Base	CIS	Zulfi Science	Majmaah University
Computer Organization	Comp	Zulfi Education	Majmaah University
Visual Basic Science	Comp	Information Technology	Ministry of Education
C++ Programming	Comp	Information Technology	Jordan University
Multimedia	<b>Comp</b>	<b>Information Technology</b>	Jordan University

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**Training Experience**

Training "Effective communication skills ",
Training "Effective teaching skills",
Training "Decision-making and problem-solving",
Training " E- Learning ", Majmaah University , Saudi Arabia
Training " The culture of E-learning" Majmaah University , Saudi Arabia
Training " The Skills of E-learning" Majmaah University , Saudi Arabia

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**Practical Skills**

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**ICDL(International Computer Driving License )****CISCO**

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## Mr. Noureldin Elsayed abdalfatah Laban



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### Research Interests:

Artificial Intelligent

Digital Image Processing and Satellite images

Programming languages and Geographic Information Systems

### Language Skills

Arabic, English , French

### Qualification (Career and University Education)

2000-2004	B. Sc. Degree (Information Technology)	Very good with honor (83.4%) “, Faculty of Computers and information, Cairo University, Egypt.
2008-2013	MS. C. Degree (Information Technology)	Faculty of Computers and information, Cairo University, Egypt.

### Career

2006-2007	Assistant lecturer at Computer Science Department, Faculty of Computer Science, MSA University, Egypt.
2007-2013	Research Assistant at Digital Image Processing and its Applications , Data Reception - Analysis and Receiving Station Affairs , National Authority of Remote Sensing and Space Sciences, Egypt.
2013-Now	Assistant Researcher at Digital Image Processing and its Applications, Data Reception - Analysis and Receiving Station Affairs, National Authority of Remote Sensing and Space Sciences, Egypt.
2013-Now	Lecturer at Computer Science and Information, Faculty of Science, Majmaah University, Saudi Arabia.

### Short Visits



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### Publication

Noureldin Laban, M. ElSaban, A. Nasr, and H. Onsi, "System refinement for content based satellite image retrieval," The Egyptian Journal of Remote Sensing and Space Sciences, vol. 15, June 2012.

Noureldin Laban, M. ElSaban, A. Nasr, and H. Onsi, "Spatial Cloud Detection and Retrieval System for Satellite Images", International Journal of Advanced Computer Science and Applications, vol. 3, Issue 12, December 2012.

Noureldin Laban. (2014). Geospatial Image Retrieval: proposed system from content based satellite image retrieval. ISBN:978-3-659-52714-2, Germany: LAP LAMBERT Academic Publishing.

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### Teaching Experience

Software Engineering	CSI	Zulfi Science	Majmaah University
Concepts of Programming Languages	CSI	Zulfi Science	Majmaah University
E-Commerce	CSI	Zulfi Science	Majmaah University
Programming 1	CSI	Zulfi Science	Majmaah University
Theory of computation	CS	Computer Science	MSA University
Programming concepts	CS	Computer Science	MSA University
Databases concepts	CS	Computer Science	MSA University
Algorithms	CS	Computer Science	MSA University

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### Conferences

The 6th International Conference on Informatics and Systems	Cairo, Egypt	2008
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### Training Experience

Developing applications with ArcGIS server using the Microsoft .net framework By ESRI, 2008.

Linux Power user, Linux administration, Linux networking and Linux firewall by IBM. 2008.

Radar satellite image processing by NARSS, 2012.

Artificial Neural Networks by NARSS, 2013.

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### Practical Skills

Software developer at Kalipha Computer Group KCG , 2004.

Software developer at Authority of Organization and management for Egyptian Army, 2005.

Software developer at Arabia for Information Technology ARABIA, 2006.

GIS Engineer and Satellite Image Processing Expert at Jeddah Municipality - GIS Center 2009, 2010.

Mosaic of Sinai peninsula using Spot satellite images,NARSS,2013

Calibration of Masrsat-1 satellite images,NARSS.2011

Development of web-based application for satellite image archiving system ,NARSS,2008

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## STATISTICS INFORMATION FOR COMPUTER SCIENCES & INFORMATICS PROGRAM

Occupation	Number	Non-Saudi	Saudi
Professor	-	-	-
Associate Professor	1	1	-
Assistant professor	6	6	-
Lecturer	10	5	5
Demonstrator	3	-	3
Scholarship	5	-	5
Total		12	13

Illustration shows the percentage of Saudi to non-Saudis to the functional framework

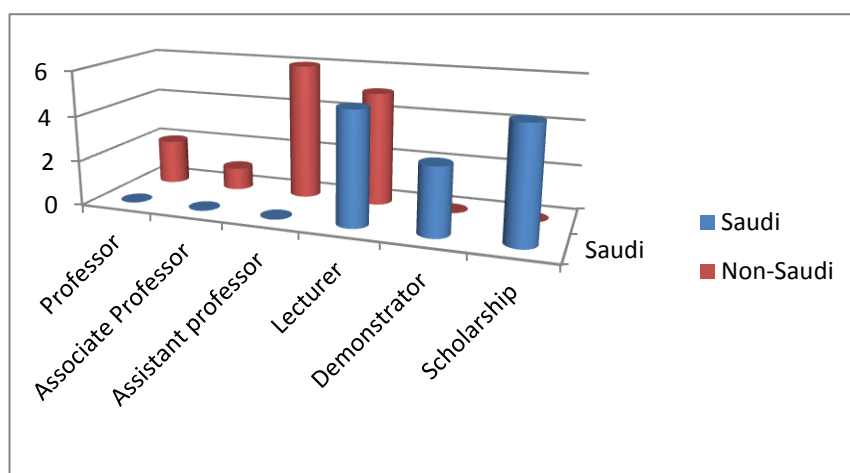


Illustration shows the overall non-Saudi Arabia

The proportion of non Saudi Arabia 34.6%

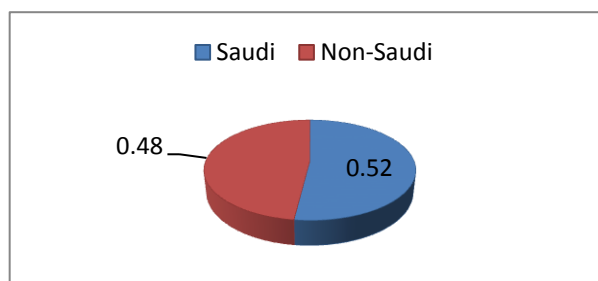


Illustration shows the ratio of faculty staff to students

The Ratio is 1: 12