

# AKRAM RASHID



## **TEACHING EXPERIENCE:**

- 1) **Assistant Professor, Air University Islamabad, Pakistan Taught following subjects**
  - i) Electric Circuit analysis
  - ii) Network analysis
  - iii) Digital and analogue Electronics
  - iv) Electromagnetic waves
  - v) Digital Communication and Advance Digital communication
  - vi) Advance Digital Signal Processing
  - vii) Evolutionary computing and Evolutionary algorithms
  - viii) Fuzzy Logics and systems
- 2) **Senior Instructor Electronics International Islamic University Islamabad, Pakistan**
  - i) Basic Electricity and magnetism and Electronics
  - ii) Analogue and digital Electronics
  - iii) Repairing and maintenance computer based systems
- 3) **Author of following Two Lab Manuals**
  - i) **Lab Manual for Electric circuit analysis**

This Manual includes 10 Experiments having complete theoretical information about the relevant subject and related practical circuits for hands on verifications and fully supported with PSPICE Simulations.
  - ii) **Lab Manual for Network Analysis**

This Manual includes 10 Experiments having complete theoretical information about the relevant subject and related practical circuits for hands on verifications and fully supported with PSPICE Simulations.

## **WORK EXPERIENCE**

**Asst. Prrof.**

**Aug 2005-til date**

Department of Electrical Engineering, Air University P A F Complex, Islamabad Pakistan.

Teaching Digital Electronics, Analogue Electronics & Circuit theory from Last five years.

**Incharge Academics/Senior Instructor Electronics:**

**1997-July 2005**

International Islamic University, Iqra Centre for Technical Education, Islamabad.

**Engineer and Incharge Department of computer hardware & Electronics**

**1996-97**

Petroman Training Institute Ministry of Industries and production Govt. of Pakistan

## **FIELDS OF SPECIALIZATION**

- Research in the field of Bio-medical Engineering/communication Engineering/Signal processing. Removing Artifacts in ECG and EEG using ICA. Reducing Multiple Access Interference and handling Inter symbol Interference using Evolutionary Techniques. Efficient Signal processing and noise reduction. Supervising R & D projects relating IP phones, Remote controlled microcontroller based Uninterrupted Power supplies and Switching mode power supplies.
- Circuit Theory and analysis(Theory and Lb supervision)
- Network Analysis(Theory and Lb supervision)
- Curriculum Planning, Evaluation, Educational planning and Management.
- Academics planning and student counseling

- Deputy Superintendent Examination Air University, Islamabad Pakistan
- Member Convener Student week 2012

## **MEMBER/RESOURCE PERSON**

- i) **Member Editorial Board International Academy of Science, Engineering and Technology(IASET) USA** <http://www.iaset.us/journals.php?jtype=2&id=15&details=editors>
- ii) **Member Editorial Board International Journal of Electronics, Communication & Instrumentation Engineering Research and Development(IJECIERD )**
- iii) **Member Editorial Board International Journal of Research in Computer Application and Management Haryana India**
- iv) **Member International Institute of Informatics and Systemics(IIIS) USA**
- v) **Reviewer International Journal of Acoustics and Vibration USA.**
- vi) **Reviewer International Journal of wireless communication and Mobile Computing Science Publishing Group 548 Fashion Avenue NewYork, NY 10018 USA Tel: (001)347-688-8931Tel Email: [service@sciencepublishinggroup.com](mailto:service@sciencepublishinggroup.com) <http://www.sciencepublishinggroup.com/j/WCMC>**
- vii) **Pakistan Engineering Council Member Task force on building energy code**
- viii) **Institute of Engineers Pakistan**
- ix) **Member Pakistan Vacuum Society Islamabad Pakistan**

## **RESEARCH PUBLICATIONS**

## **RESEARCH PUBLICATIONS**

- 1) Akram Rashid, Zahooruddin “ **Efficient Multicolor multipurpose optical reflex eye mark sensor(EMMEMS)**” Published in the **25<sup>TH</sup> International Conference on CAD/CAD, Robotics and Factories of the Future(CARsFOF)**, 2010 South Africa with the publication **ISNB number: 978-0-620-46582-3.**
- 2) Akram Rashid Reference Research Paper “ **Multiuser Detection in DS-CDMA Using Evolutionary Techniques**” published in the International Conference on Computer, Electrical and System Sciences and Engineering held in **Paris 10, France during July 28-30 2010.**
- 3) Akram Rashid, Zahooruddin, I.M. Qureshi, Aamie Saleem Ch.“**Electrocardiogram Signal Processing for Baseline Noise Removal using Blind Source Separation Techniques: A Comparative Analysis**” Published in **International Conference on Machine Learning and Cybernetics, ICMLC 10-13 July 2011, Guilin Guangxi, China IEEE Catalog No. CFP-11523 PRT ISBN 978—1-4577-0306-5 ISSN 2160-133X, Volume 4 of 4 page 1756.**
- 4) Akram Rashid, I.M. Qureshi Zahooruddin “**Energy Conservation in Pakistan using Green Building Idea**” International conference “ **Energy options for Pakistan Regional Energy and Water Grids" Pakistan 2012.**
- 5) Akram Rashid, Zahooruddin, I.M. Qureshi, Aamie Saleem Ch. “Reducing Computational Complexity in DS-CDMA Using Swarm Optimization Techniques” **International Institute of Informatics and Systemics (IIIS) WMSCI 2012 July 17<sup>th</sup> - 20<sup>th</sup>, 2012 – Orlando, Florida, USA,** [http://www.iiis.org/CDs2012/CD2012SCI/SCI\\_2012/Abstract.asp?myurl=SA763NS.pdf](http://www.iiis.org/CDs2012/CD2012SCI/SCI_2012/Abstract.asp?myurl=SA763NS.pdf)
- 6) Akram Rashid, I.M. Qureshi“Energy Conservation in Developing Countries Using Green Building Idea”. VASSCAA-6. The Sixth Vacuum and Surface Sciences Conference of Asia and Australia October 9-13,2012 Islamabad Pakistan
- 7) Akram Rashid I.M.Qureshi, N.A. Malik, T.A.Cheema“Eliminating Artifacts in Electrocardiogram”**8<sup>th</sup> international Symposium on Computational Complexities, Innovations and Solutions(CCIS-2013). COMSATS- Institute of Information Technology, May 27-28 2013 Abbotabad**
- 8) Akram Rashid, I.M. Qureshi“Energy “ **Energy Conservation in Developing Countries using Green Building Idea**”, Journal of Physics: Conference series(JPCS). IOP Publications Bristol UK, 14<sup>th</sup> June 2013, <http://dx.doi.org/10.1088/1742-6596/439/1/012045>

- 9) Akram Rashid, I.M. Qureshi, N.A. Malik "White Gaussian Noise removal in ECG using Independent Component Analysis" 20<sup>th</sup> International Conference on Sound and Vibration (ICSV20) 7<sup>th</sup>-11<sup>th</sup> July 2013, Bangkok, Thailand.
- 10) Akram Rashid, I.M. Qureshi, Fida Muhammad "Genetic Algorithm based Multiuser Detection in DS-CDMA: A Comparative Analysis" IEEE International Conference on Machine Learning and Cybernetics (ICMLC-2013), 14<sup>th</sup>-17<sup>th</sup> July 2013, Tianjin china
- 11) Akram Rashid, I.M. Qureshi, Aamer Saleem Ch., N.A. Malik "Multiuser detection in DS-CDMA using Particle Swarm Optimization: A Comparative Analysis" ICOMS-2013, Vol. 2, pp 48-67 Air University, Islamabad Pakistan Nov. 2013
- 12) Akram Rashid, Ijaz Mansoor Qureshi, Aamer Saleem Ch. Naveed A. Malik "Partial Swarm Optimization based multiuser detection in DS-CDMA systems", International Conference on Computer Engineering and Network (CENet 2013), Vol.2, no:3, pp 117-121, Shanghai China, July 20-21 2013.
- 13) Akram Rashid, I.M. Qureshi, N.A. Malik, T A Cheema "Efficient Detection Of Malignant Tumor By Eliminating Artifacts In Electroencephalogram Using ICA", Journal of Basic and Applied Research (JBASR), Vol. 4, No. 2, pp 236-255 Egypt.
- 14) Akram Rashid "Reducing Computational Complexities of DS-CDMS Using Evolutionary Techniques" 9<sup>th</sup> Symposium on "Computational Complexities Innovations and Solutions (CCIS).", May 12-13, 2014, COMSATS- Institute of Information Technology Abbottabad Pakistan.
15. Akram Rashid, I.M. Qureshi "Eliminating Electroencephalogram Artifacts Using Independent Component Analysis" International Conference on Advance Technology & Sciences (ICAT'14), Vol.1, pp717-723 Antalya Turkey, August 12-15, 2014
16. Akram Rashid, Seema Tahir, Aamer Ssleem Ch. "Detection of Brain Tumor in EEG Signals Using Independent Component Analysis" International Conference on Advance Technology & Sciences (ICAT'14) Vol.1, pp797-802 Antalya Turkey, August 12-15, 2014
17. Akram Rashid, "Eliminating ECG Noise From Electroencephalogram for Efficient Brain Tumor Detection" 10<sup>th</sup> International Conference on Natural Computation (ICNC-2014) Vol.1, pp47-51, August 19-21, Xiamen, China

Two Journal paper and three conference Paper about EEG artifacts for efficient brain Tumor detection Have been accepted.

## QUALIFICATION

- **Ph.D fellow (Electronic Engineering)**
- **MS Electronics Engineering Air University Islamabad CGPA 3.18/4 2008**
- Bachelor of Science in Electrical & Electronics Engineering IIT(IUT) 1<sup>st</sup> Div 1996.
- M.S. Engineering Economics IIU Islamabad 1<sup>st</sup> Div 1997
- Master in Educational Planning and Management AIOU Islamabad 2<sup>nd</sup> Div 2002
- F.Sc. (Pre Engineering) 1<sup>st</sup> Div 1985
- S.Sc. ( Science) 1<sup>st</sup> Div 1982

## CERTIFICATION

Sr.No.	Certificate	Awarding Authority	Date
1	Computer System and Maintenance	Petroman Training Institute	Jul1985-1986
2	Serial AM-36 Trial Trekking for young men	Pakistan Adventure Foundation	July 01-09, 1987
3	High Altitude Backpacking Course	Pakistan Adventure Foundation	Aug17-25, 1989
4	American History	American Council, Islamabad	Sep 17-28, 1989
5	GRE Training Workshop	Pakistan Higher Education Commission	June 4-8, 2007
6	SA-8000 and Awareness in context of CSR	Leadership & Management Development Ass.	Jan 19, 2009
7	English Second Language Acquisition	Air University	Dec 12, 2009

8	Rebuilding Life through Self-motivation	Pakistan Engineering Council	Jan 18,2010
9	Effective Communication for Engineers	Pakistan Engineering Council	April 19,2010
10	Vacuum Leakage Testing	<b>NCP</b> , Islamabad, Pakistan	Sep 21,2010
11	Organizer International Symposium	Pakistan Vacuum Society	Nov 2-6,2010
12	Symposium on Vacuum Science & Tec.	Pakistan Vacuum Society	Nov.2-6.2010
13	Information Security Seminar	Riphah International University	Nov 6, 2010
14	Workshop on LabVIEW	IEEE Communication Society	April,23-24, 2011
15	Knowledge Management for the service Industry	Asian Productivity Organization National Productivity Org.	05 <sup>th</sup> - 07 Dec 2011
16	Teaching The Teachers(A Concepts Workshop): Electronic Circuits for Instrumentation & Meashrement	LUMS (Lahore University of Management Sciences)	June 4 <sup>th</sup> -7 <sup>th</sup> 2012

## **PROFICIENCY IN ENGLISH AND ARABIC LANGUAGES**

- American History course
- English Proficiency Certificates from International Islamic University, and Air University, Islamabad
- **Becholar of Science in Economics from International Islamic University**  
Studies 10 Arabic language courses , Two Islamic Fiqah courses  
Good in Writing and speaking Arabic courses.
- Studied Arabic Language courses from Islamic University of Technology, Dhakka Bangladesh

## **PERSONAL INFORMATION**

- **Pakistan Engineering Council Registration No. ELECT/25676**
- Date of birth: April, 03 1965, Citizenship No. 61101-843805-7,
- Passport No. AQ9848051

## **EXTRA CURRICULAR ACTIVITIES**

All-round Best Student Award, Best speaker, Sports Organizer, Hiker, Badminton & Football Champion Awards.

## **SOCIAL ACTIVITIES**

- **Director Coordination Civil Lines Club.**
- **Member BSERA:** A Social Welfare community working for the welfare and Education of Socially retarded kids and Orphans.
- **Member AAS A social Network organization**
- **Member Baidari Fiqar Forum Pakistan**