**Dr. Bhawani Shankar Chowdhry**

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**Distinguished National Professor,**

**Former Dean and Meritorious Professor (BPS 22)**

**Professor Emeritus**

Faculty of Electrical, Electronics and Computer Engineering

Mehran University of Engineering & Technology,

Jamshoro, Pakistan

**ACADEMIC QUALIFICATIONS**

* **Ph.D**.(1990), *Department of Electronics & Computer Science*, University of Southampton (***UK***).
* **B**.**Eng.** Electronics (1983), Department of Electronic Engineering, Mehran University of Engineering & Technology (MUET), Jamshoro- (**PAKISTAN).**

**EMPLOYMENT**

**Designation Period Duties**

Meritorious Professor (BPS-22) and Dean, 2011 to 2018 Teaching, Research

Faculty of Electrical, Electronics & Administrative

& Computer Engineering

Director, \*\* 2008 to Teaching, Research

Institute of Information & April 2011 & Administrative

Communication Technologies

Full Professor 1996 to date Teaching, Research

Department of Electronics & Biomedical Eng. & Administrative

Mehran University of Eng. and Technology **(MUET)**

Jamshoro (Sindh) PAKISTAN.

Associate Professor 1990 – 1996 Teaching, Research

**MUET**, Jamshoro Administrative

Lecturer**\*\*** 1983 – 1990 Teaching & Research

MUET, Jamshoro

**\*\* On postgraduate study leave abroad (England) between 1984-1989**

**\*\* Visiting Research Fellow at School of ECS, University of Southampton, UK between 2007-2008**

**INTERNATIONAL EXPOSURE**

He has spent 05 years in Southampton, UK between 1984-1989 for doing my post-graduation leading to PhD. Also, he carried out one year Postdoctoral Fellowship from the School of Electronics and Computer Science, University of Southampton, UK between 2007-08. Beside, he participated in various International workshop organized by UNU Japan at ICTP, Trieste Italy as a regular Associate/Gust Scientist of ICTP from 1996 to 2011. Also, he chaired Technical Session in USA, UK, China, UAE, Italy, Sweden, Finland, Switzerland, Pakistan, Spain and Belgium. Being lead person of Erasmus Mundus Mobility for life project, and Erasmus Mundus Visiting Fellow, he spent one month at university of Aalborg Denmark in 2010 and University of Limerick Ireland in 2013.MUET was the only University of Pakistan of The Erasmus Mundus External Cooperation Window project, Lot 11, Asia Region which aimed at funding higher education via student and teaching staff mobility activities between Europe and Asia. It fully funded 32 Such Mobility / Scholarship from MUET to EUROPEAN Universities.

**RESEARCH FUNDING**

Got following four research funding from our Higher Education Commission (HEC) of Pakistan and Pakistan Science Foundation:

1. 2018-2020, “Conditioning Monitoring Research Lab”, PKR 40 Million under the project Robotics and Automation, Funded by Higher Education Commission (HEC) of Pakistan.
2. 2017-2020, NRPU project “Reconfigurable Frequency-Tunable Liquid Metal Antennas And Digital Phase Shifters For Microwave Frequencies” ,

PKR 13Million Funded by Higher Education Commission (HEC) of Pakistan.

1. 2013-2015, “Design & Implementation of Intelligent Energy Efficient Industrial Process Control System using Conveyor Belts via Robotic Arm”, Funded by Pakistan Science Foundation, PKR1.3 Million.
2. 2009-2011, “Challenges on FSO Wireless Broadband Network for HealthCare Monitoring and Disaster Recovery”, PKR 1.4 Million, Funded by Higher Education Commission (HEC) of Pakistan

**ADMINISTRATIVE, TEACHING, and RESEARCH EXPERIENCE**

He remained Chairman of the Electronic Engineering department for more than 19 years (six tenures). Being Chairman Electronic Engineering, he established two new departments viz-a-viz Telecommunication Engineering and Biomedical Engineering . He was appointed founding Chairman of both the departments.

Since last seven years, He has been working as Dean of the largest Faculty of Electrical, Electronic, and Computer Engineering. I am having more than thirty (30) years of teaching, and research experience. This includes 5 years of research work, which was carried out at University of Southampton England led to the degree of Ph.D. This research work was mainly concerned with the *development of a novel on-line computer-aided microprocessor-based instrumentation for the rapid evaluation and display of the complex permittivity of polymer dielectrics in the low-frequency range for polymer industry.*

For the last more than 28 years or so, he has been teaching at the under-graduate as well as postgraduate level subjects of Computer Architecture, *Microprocessors and Interfacing techniques*, *Embedded Systems, Applications of Microprocessors, Digital Signal Processing, Internet of Things, Mobile & Wireless Communication,, Computer Networking, Programming languages (C & Assembly), Distributed Computing,* e-commerce etc. at the Mehran University of Engineering & Technology (MUET) Jamshoro, Pakistan**.** Carried out several HEC/PSF, and ICT R&D funded projects which have resulted into several publications and one of the patent is also in the final stage of approval. In addition, several international conference were oraganized within country and abroad. The proceedings of such conferences have been published in Springer verlag Germany CCIS series and in International impact factor Springer Wireless Personal Communication Journals.

**AREAS OF RESEARCH INTEREST**

* Wireless Sensor Networks
* Embedded systems
* Simulation & Modelling
* Internet Technologies
* Mobile Computing
* Telemedicine and eHealth
* Smart Civil Structures
* Conditioning Monitoring
* Body Area Network (BAN)

**RESEARCH EXPERIENCE**

**Research Supervisor/co-supervisor of:**

* Already produced more than dozen PhD’s , and three are about to finish.
* Supervised / co-supervised more than Fifty (50 ) ME/MPhil students between 2001-2015.
* Supervising 2-3 groups of final year undergraduate students every year.

**Research Papers Published:**

* More than Seventy(70) Research Papers Published in HEC Recognized national/International peer reviewed/ /Indexed / impact factor Journals
* More than Twenty (25) Research Papers Published in Proceedings of International and National Conferences
* Remained Guest Editor of International impact factor Springer Wireless Personal Communication Journal for year 2013, 2014, 2015, 2016, 2017.

**SELECTED RESEARCH PUBLICATIONS in SCI Impact Factor Journals (Most recent 25 papers)**

1. *IF Siddiqui, NM Qureshi,* ***BS Chowdhry*** *et al, “Tuck-at Fault Analytics of IoT Devices Using Knowledge-based Data Processing Strategy in Smart Grid,* *Wireless Personal Communications April 2018, , DOI: 10.1007/s11277-018-5739-9*
2. *SF Memon, MM Ali, JT Pembroke,* ***BS Chowdhry****, E Lewis, "*[*Measurement of Ultralow Level Bioethanol Concentration for Production Using Evanescent Wave Based Optical Fiber Sensor*](javascript:void(0))*", IEEE Transactions on Instrumentation and Measurement, Oct 2017,* **DOI:**[10.1109/TIM.2017.2761618](https://doi.org/10.1109/TIM.2017.2761618)
3. *NMF Qureshi, DR Shin, IF Siddiqui,* ***BS Chowdhry****, "*[*Storage-Tag-Aware Scheduler for Hadoop Cluster*](javascript:void(0))*", IEEE Access 5, 13742-13755, 2017*
4. *Das, B., Abdullah, M.F****.., Chowdhry, B.S****. et al “A Novel Signal Regeneration Technique for High Speed DPSK Communication Systems”, Wireless Pers Commun (2017) 96: 3249. September 2017, Volume 96, Issue 2, pp 3249–3273|*
5. ***B.SChowdhry*** *, Faisal Karim Shaikh, Shamshad Ali, EmadFelemban, , Faisal KarimShaikh, Shamshad Ali, EmadFelemban, “Experimental Evaluation of Vibration Response Based Bridge Damage Detection Using Wireless Sensor Networks”, Wireless Personal Communications, November 2015, Volume 85, Issue 2, pp 499-510* [ISSN: 0929-6212]
6. *Piyar Ali Jatoi , Aftab A. Memon,* ***B. S. Chowdhry,*** *M. GhazanfarUllah, Shiraz Latif*

*“An Efficient Hybrid Cryptographic Algorithm, Consuming Less Time for Exchanging Information in Wireless Sensor Networks”, Wireless Personal Communications*

*November 2015, Volume 85, Issue 2, pp 449-46.*

1. *Musavi, S.H.A.,* ***Chowdhry, B.S****., Kumar, T., Pandey, B., and Mumar, W., “IoTs Enable Active Contour Modeling Based Energy Efficient and Thermal Aware Object Tracking on FPGA”, Wireless Personal Communication, 2015 [DOI 10.1007/s 11277-015-2753-z]*
2. *Aamir, M., Uqaili, M.A., Khan, N.A., Poncela, J., and* ***Chowdhry, B.S****., “Hardware Implementation and Testing of Reconfigurable RTU for Wireless SCADA”, Wireless Personal Communiction, 2015 [DOI 10.1007/s 11277-015-2752-0]*
3. *Memon, I., Kumar, P., Memon, N.A., and* ***Chowdhry, B.S****., “Secure Covrage Tree Construction Scheme for Wireless Sensor Networks”, An International Journal of Wireless Personal Communication, Volume 82, No. 1, Springer, May, 2015 [ISSN: 0929-6212]*
4. *Kumar, P., Memon, I.,* ***Chowdhry, B.S.,*** *and BGunes, M., “Implementation and Evaluation of AREA-MAC Protocol on the DES-Testbed Platform”, An International Journal of Wireless Personal Communication, Volume 80, No. 1, Springer, January, 2015 [ISSN: 0929-6212]*
5. ***Chowdhry, B.S****., Shah, S.M.Z.S., and Shah, S.M.S.A., “A Implementation Framework for Tutorial Based Learning”, Transactions on Advances in Engineering Education, 2015 [E-ISSN: 2224-3410]*
6. *SHA Musavi,* ***BS Chowdhry****, T Kumar, B Pandey, W Kumar, “****IoTs Enable Active Contour Modeling Based Energy Efficient and Thermal Aware Object Tracking on FPGA”*** *Wireless Personal Communications, 1-15, 2014.*
7. *Kumar, T., Pandey, B., Das, T., &****Chowdhry, B. S****.,* ***“ Mobile DDR IO Standard Based High Performance Energy Efficient Portable ALU Design on FPGA”,***  *Wireless Personal Communications, 76(3), 569- 578(2014)*
8. *MG Ullah,* ***BS Chowdhry****, AQ Rajput, AK Baloch, AA Ursani, S Latif, “Wireless Body Area Sensor Network Authentication Using Voronoi Diagram of Retinal Vascular Pattern*

*Wireless Personal Communications 76 (3), 579-589, (2014)*

1. *M Aamir, MA Uqaili, S Amir,* ***BS Chowdhry, “Framework for Analysis of Power System Operation in Smart Cities”,*** *Wireless Personal Communications,76 (3), 399-408 (2014),*
2. *AA Ursani, AA Memon,* ***BS Chowdhry,*** “[***Bloom's taxonomy as a pedagogical model for signals and systems***](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=wwIJRosAAAAJ&citation_for_view=wwIJRosAAAAJ:2osOgNQ5qMEC)***”,****International Journal of Electrical Engineering Education 51 (2), 162-173, (2014)*
3. *S. Amir, A.A. Siddiqui, N. Ahmed,* ***BS Chowdhry,*** *I. Grout, “Design and Implementation of a pressure sensor on Proteus: Four Sensing intelligent nodes based system with central monitoring unit”, Springer CCIS DOI: 10.13140/RG.2.1.4286.3121*
4. *T Kumar, B Pandey, T Das,* ***BS Chowdhry, “****Mobile DDR IO Standard Based High Performance Energy Efficient Portable ALU Design on FPGA”, Wireless Personal Communications, 76 (3), 569-578*
5. *Samreen Aamir,* ***B.S.Chowdhry,*** *Muhammad Aamir,* ***“Proposed Inductor Design for High Speed Digital Communication Systems through Divergence Analysis of Self Inductance and Variability in Permeability Values of Unaltered Human Hair”,*** *Wireless Personal Communications (2014); DOI:10.1007/s11277-014-1719-x*
6. *Mohammed Khalid Khan, Muhammad Sohail, Muhammad Aamir,* ***B. S. Chowdhry****, Syed IrfanHyder,* ***“Web Support System for Business Intelligence in Small and Medium Enterprises”,*** *Wireless Personal Communications (2014); DOI:10.1007/s11277-014-1723-1*
7. ***B. S. Chowdhry,“Successful Transformation of ICT Graduate Program: A Role Model for Developing Countries****, Springer Wireless Pers. Communication (2013) 69:1013–1023*
8. *MusarrathassanSamreenamir*, ***B.S. Chowdhry***, ***The Analysis of the Artifacts due to the Simultaneous Use of Two Ultrasound Probes with Different/Similar Operating Frequencies”,*** *Computational and Mathematical Methods in Medicine,* 01/2013; 2013:890170. DOI: 10.1155/2013/890170 *(2013)*
9. *Muhammad Aamir, Javier Poncela, Muhammad AslamUqaili, ·* ***B. S. Chowdhry*** *,Nishat Ahmad Khan,* ***“Optimal Design of Remote Terminal Unit (RTU) for Wireless SCADA System for Energy Management,*** *Springer Wireless PersCommun (2013) 69:999-1012.*
10. *Muhammad Aamir, Javier Poncela,* ***B.S. Chowdhry****,and Muhammad AslamUqaili, “****Impact Analysis of Renewable Energy in National Grids for Energy Deficit Countries”,*** *CCIS 281, Springer Verlag Germany, pp. 1–9, 2012.*
11. *Samreen Amir, BS Chowdhry, Muhammad Asif,andBhibekshanChowdhry, An External* ***Approach to Improve the Information Content of Diagnostic Ultrasound Images,CCIS 281, Springer Verlag Germany,*** *pp. 101–109, 2012.*

**BOOKS**

**I am author/co-author/editor of the following text and practical books and guides**

(Some of these books are referred as recommended text books in HEC Curriculum)

**International Level Book Publications:**

1. “Emerging Trends and Applications in Information Communication Technologies”, CCIS 281 published by Springer Verlag, Germany (Main Editor). ISBN: SBN 978-3-642-28961-3, 2008.
2. “Wireless Networks, Information Processing and Systems”, CCIS, Vol.20, Springer Verlog Germany, ISBN 978-3-540-89852-8(Co-Editor), 2012.
3. “Wireless Sensor Networks for Developing Countries”, CCIS 366,Springer Verlog Germany, 2013, ISBN 978-3-642-41053-6 (Co-Editor), 2013.
4. “The First Book of Electronics Workshop: Can’t Beat A Practical Approach!”,

River Publishers, Europe, ISBN: 9788793102477, 2014.

1. “Communication Technologies, Information Security and Sustainable Development”, CCIS 414, Springer Verlog Germany, 2014, ISBN978-3-319-10986-2, 2014.

**AWARDS/GOLD MEDALS/SHIELDS/HONOURS**

**International Awards**

* **Associate Member/ Guest Scientist**, International Centre for Theoretical Physics (ICTP), Trieste, **ITALY** (1996-2001) under the umbrella of UNESCO/IAEA.
* **Associate Member/ Guest Scientist (2nd Time Award)**, International Centre for Theoretical Physics (ICTP), Trieste, **ITALY** (2004-2009) under the umbrella of UNESCO/IAEA.
* **MARQUIS Who’sWho Scientist Award** *in Science and Engineering***, 2005-2006.**
* **Junior Chambers International (JCI), USA, Senator-ship Award**, 2011
* **Erasmus Mundus Visiting Fellowship 2013**, Award was received under European Commission StrongTies program at University of Limerick, Ireland.

**National Awards**

* Recipient of **Chancellor’s Gold Medal** for securing First Position in B Eng. (Electronics), 1983
* Recipient of **Best Graduate Award** in B Eng. (Electronics), 1983.
* Recipient of **Merit Scholarship Award** by Ministry of Education (Government of Pakistan) for doing Postgraduate Studies abroad, 1984.
* Recipient of **Chancellor’s Shield** for organising highly Scientific and Technological event TECHNO-91.
* Recipient of Minister’s shield for organising **Academic Excellence Award** 1994-1995, 30th March, 1995.
* Recipient of **Gold Medal** for **performing meritorious services to the Mehran University,** awarded by Speaker, National Assembly of Islamic Republic of Pakistan, 24 May, 1997.
* Recipient of **Millennium Gold Medal**, XIIth Star Awards South Asia Publication, 17th May, 2002.
* Recipient of National **Best University Teacher Award–2001**, by Federal Education Minister on 29th June 2002 for meritorious services.
* Recipient of **National Cultural Award-2002** in recognition of achievements in the field of Engineering Profession (Awarded by Federal Minister of Culture, Tourism, and Minorities affairs, 23 Sep 2002).
* Recipient of **National IT Excellence Award 2002**, awarded by Advisor Finance to PM on 4th January 2003.
* Recipient of **TheMillennium Life Time Award** duringmega event “Jashan-e-Kamal-e-Karkardegi XVITH Star Awards” organized by South Asia Publication. 25th June 2006.
* **Postdoctoral Fellowship Award**, by Higher Education Commission, to carry out 1years research work at School Of Electronics & Computer Science University of Southampton, SOUTHAMPTON, UK**, Sep 2007.**
* **President of Pakistan’s Highest Academic Distinction Award (Izaz-e-Fazeelat),** 2009, awarded by President of Pakistan.
* Recipient, **Best Branch Counselor Award**, by IEEE RDP Pakistan, in IEEE Pakistan Students/GOLD/WIE (PSGWC’12) Congress 2012 in recognition of his research and development activities at Mehran University of Engineering and Technology, September 2012
* **Distinguished National Professor Award,** Higher Education Commission, 2017

**TRAINING COURSES / INTERNATIONAL WORKSHOPS ATTENDED**

* International Workshop on TELEMATICS (Telecommunication & Information Technology) at the International Centre of Theoretical Physics (ICTP), Trieste, Italy. 2 Oct - 20 Oct-1995.
* International workshop on **TELECOMMUNICATION: Science, Technology, Applications** at the International Centre of Theoretical Physics (ICTP), Trieste, ***Italy.****15 Sep - 04 Oct 1997.*
* Workshop on **“Total Quality Management**”, organised by Edinboro University of Pennsylvania ***(USA***), 1994.
* International College on **“Microprocessor-based Real Time Applications in Physics”,** organised jointly by UNU and Microprocessor laboratory, The Abdus Salam ICTP, Trieste, ***Italy,****12 Oct - 06 Nov 1998.*
* International Workshop **“VLSI Design Techniques**”, organised jointly by UNU and Microprocessor laboratory, The Abdus Salam ICTP, Trieste, ***Italy,*** *09 Nov- 04 Dec. 1998.*
* International Workshop **“Mathematical Problems in Image Processing”,** organised jointly by The Abdus Salam ICTP, Trieste, ***Italy,****04 Sep –22 Sep 2000.*
* International Summer School on **“Mathematical Control Theory”,** Organised by The Abdus Salam ICTP, Trieste, ***Italy,*** *3-28 September 2001.*
* *International Workshop on* ***“E-Learning”,*** Organized by IEE UK in collaboration with University of Southampton, **UK**, Oct 2003.
* Workshop on ***“High Performance Computing”,*** Organized by INTEL Corp inc USA, CERT Technology Park, Abu Dhabi, **UAE**, March 2004.
* Training on *“***Leybold Electronics & Telecommunication Equipment***”,* at LeyboldDedatic, **Germany,** June 2005.
* **Advance School in High Performance Computing Tools for e-Science**, 05 – 09 March 2007, organized by ICTP, Trieste, Italy.
* Postdoctoral Research Programme under ***Erasmus Mundus external Cooperation Window Project “Mobility for Life”–*** in cooperation with e-Learning Lab, and UNESCO PBL Chair, Aalborg University, Denmark, May-June 2010.
* **ITU-ICTP Workshop on Applications of Wireless Sensor Networks for Environmental Monitoring in Developing Countries** organized jointly by ICTP and International telecommunication Union, Marconi Laboratory, Trieste, Italy, 28 Feb to 09March 2011.
* **Erasmus Mundus Fellowship at University of Limerick, Ireland**, under EU STRoNG-TiES (Strengthening Training and Research through Networking and Globalisation of Teaching in Engineering Studies) program, Sep-Oct 2013.
* **Erasmus Mundus Fellowship at City University London, UK**, under EU LEADERS program, July-Aug 2015.
* **International staff exchange visit** at UMA, SPAIN, under Erasmus plus International Credit Mobility program, July 2018.

**PAPERS PRESENTED (Mostly keynote) IN NATIONAL & INTERNATIONAL CONFERENCES and Forums(Most recent first)**

* ***Green ICT is changing the Nature of 21st Century Research and Innovation,*** *1st International Conference on Social Sciences and Information & Communication Technologies (ICSSICT – 2018) February 20-21, 2018 at Sindh Agriculture University Tandojam, Pakistan.*
* ***Improving Biomedical Engineering Education to Brighten up Career Prospectus:   
  A Multidimensional Approach,***  *1st International Conference on Biomedical Engineering and Medical Sciences, SSUET, 24-25 Oct 2017*
* *“****Vertical Integrated Projects (VIP) for Developing Countries: Implementation, Challenges and Benefits****, Delivered Guest Lecture at National Instruments NIDays Conference, Beirut 17 May, 2014.*
* ***Moving Towards Collaborative Vertically Integrated Projects (CVIPs): Benefits and Challenges****, UTM, Malaysia, 25 Nov, 2014.*
* ***“Improving Communication Reliability in Smart Grid Applications Using WSN Technology”,*** *delivered Guest Lecture at General Electric, Bahrain, 30th March, 2014.*
* ***“Opportunities for Computer Science graduates in Wireless Sensors Networks Technology****”, delivered Guest Lecture, SZABIST Dubai at 4 March, 2014.*
* ***“Maximize the Role of Universities in Society Using Innovation through Vertical Integrated Projects”,*** *Keynote speaker, 1sT International Conference on Modern Communication and Computing Technologies (MMT’14), QUEST, 26-28 Feb, 2014.*
* ***“Challenges in the Reliability of WSN Communications in Smart Grid Applications”,****Invited Speaker to the 5th International Conference on Information and Communication Technologies (ICICT), 2013 (*[*http://icict.iba.edu.pk/*](http://icict.iba.edu.pk/)*), 15-16 Dec, 2013.*
* ***“How Problem and Project Based Learning Enhances Innovation in Engineering Education?”,*** *Invited keynote speaker at Consultative Workshop on University-Industry-Government Linkages in Pakistan, Ramada Plaza Karachi Airport Hotel, Karachi, August 22, 2013.*
* ***Wireless Sensor Networks: A Journey from Laboratory to Industry for All Time to Come,*** *Invited Keynote Speaker, 1st international Conference on Sensing for Industry, Control, Communication and Security Technologies (ICSICCST-2013), Dr Saeed-uz-zaman Auditorium Karachi, June 24-26,2014.*
* ***“Standardization of Engineering Education in Pakistan”,*** *Key note presentation at Joint ITU-GISFI-DS-CTIF Standards Education Workshop (Aalborg-Denmark, 08-09 Oct 12).*
* ***“Successful Transformation of ICT Graduate Program: A Role Model for Developing Countries”,*** *key note speaker in 1st International Conference on: 'Mobility for Life: Technology, Telecommunication and Problem Based Learning', 05-07 March 2012, Thailand.*
* ***“Smart Structural Health Monitoring: WSN Based Bridge Monitoring as an Example”,*** *Key note presentation in IEEE INMIC11Conference 22nd - 24th December 2011, SSUET, Karachi.*
* ***“Innovation for Engineering Education: Problem and Project Based Learning”,*** *National Instruments USA Seminar on “Project Based learning with graphical System design, Hotel Sheraton, 18 April 2011.*
* ***“Network Security Quantification in Wireless Sensor networks”,*** *International Awareness Conference on Wireless Technologies for Environmental Monitoring, Organized by ITU/ICTP, Trieste, Italy, 10-11 March 2011.*
* ***Analysis of Multimedia Applications in WiMaxfemtocell Environment,*** *Wireless VITAE 2011, Organized by IEEE/CTIF, 28 march-30 March 2011.*
* ***Human resource: A Vital factor of economic Development”,*** *Keynote Speakeron the occasion of xxth Star awards Ceremony, Organized by South Asia Publication, Jinnah Convention centre Islamabad, 25th Dec 2011.*
* ***“Human Resource Development Need of the Hour”,****Keynote Speaker****,****XIXth Star Awards, South Asia Publications, Aiwan-e-Iqbal, Lahore, 08 Nov 2009.*
* ***“Self-Employment in ICT: Issues and opportunities****”, National Seminar on “Policies and Strategies for Successful Implementation of Employment Generating Programs in Renewable Energies, Biotechnology, Agricultures, & ICT, COMSATS, ISLAMABAD, 11-12 August 2009.*
* ***“Towards Human Resource Development”,*** *Keynote Speaker, “XIXth Star Awards, South Asia Publications, Aiwan-e-Iqbal, Lahore, 08 Nov 2009.*
* ***“Major Challenges and Opportunities in the Practice of Research & Development in the area of Bioinformatics”,*** *Invited Guest speaker at“5th Annual Conference “Role of Medical Universities in Promotion of Research”, LUMHS, 24-26 Feb, 2007.*
* ***“Intelligent Buildings and Smart Civil Structures”,*** *Keynote speaker at IEEEP International Multi-topic Symposium, PC Hotel, Karachi, April 14-15, 2006.*
* ***“ A CORBA Based Approach for Conducting Trusted e-Commerce Transactions****”, Invited Speaker, World Engineering Convention (WEC 04), Shanghai, China, Nov 2004.*
* ***“Exploring Future Technology”,*** *Keynote Invited Speaker on the occasion of 19th All Pakistan Electrical & Electronic Seminar, organized by IEEEP at Usman Institute of Technology, Karachi, 16th Feb 2004.*
* ***Radio Resource Management Strategies in 3G UMTS Network,****ACM/IEEE National Conference on Emerging Technologies, Organized by CAM/IEEE, SZABIST Karachi, Dec 2004.*
* ***“Entrepreneurship Opportunities in Global Village”,*** *Invited Guest Speaker, Information Technology Convention 2004, Organized by Junior Chamber International (JCI), MumtazMirza Auditorium, 22nd Feb, 2004.*
* ***A Novel Image Processor for Real-Time Low-level Image Processing Operations,*** *International Multi-topic Conference INMIC 2002, 27-28 Dec 2002, Karachi, Pakistan.*
* ***Performance Evaluation of a Multiprocessor Systems Using Hardware Simulation****, IASTED International Conference on Parallel & Distributed Computing Systems (PDCS01), Anaheim, CA,* ***USA****, Aug 21-24, 2001.*
* ***Fourier Transforming Sensors: a recondite source of major error****, in* ***XII EUROSENORS****, Sep 13-16, 1998,UK.*
* ***Design of Virtual Modem for Efficient Communication****, International Wireless and Telecommunications Symposium* ***(IWTS’98)*** *Proc. 1998, KL,* ***Malaysia,*** *11-15 May 1998.*
* ***Design and Development of PC-based Programmable Peripheral I/O devices Trainer****, 16th International Multitopic Symposium, Organised by IEEEP at Karachi, Pakistan, 6th-7th March 1998.*
* ***Embedded Systems for small Real Time Applications****, Keynote speaker, 14th International Multitopic Symposium, organised by Institute of Electrical Engineers Pakistan (IEEP) at Karachi, Pakistan 17-18 Jan, 1996.*
* ***PC-Based Railway Signalling System to avoid Railway Disasters,*** *Invited speaker, 13th International Multitopic Symposium, organised by Institute of Electrical Engineers Pakistan (IEEP) at Karachi, Pakistan 27-28 Feb, 1994.*
* ***“On-line Measurement of Dielectric Relaxation Using Unorthodox Stimuli”****, IEE Conference on Dielectric Materials Measurements and Applications, University of Kent, UK, 1988.*

**COUNTRIES VISITED (Ascending year–wise order)**

Country ,year, purpose of visit

* **United Kingdom**, *1984 – 89*, For getting postgraduate (PhD) education.
* **Switzerland**, *1988*, To participate in 1st European Conference on Applications of Polar Dielectrics (ECAPD- 88) Zurich.
* **France**, *1990*, To visit Panthéon-Assas University, in Paris, France.
* **Italy,** *1995,* To participate in workshop on “TELEMATICS” at International Centre of Theoretical Physics (ICTP), Trieste.
* **Italy,***1997,* To carryout research work in microprocessor lab & to attend the International workshop on “TELECOMMUNICATION: SCIENCE, TECHNOLOGY, & APPLICATIONS” at ICTP, Trieste.
* **United Arab Emirates,** *1997,* Private visit.
* **United Kingdom,** *1997,* To give presentation on “Recent Developments in PC-based Instrumentation” at Feedback Instruments Plc, Crowborough.
* **Malaysia,** *1998,* To present paper in International Wireless and Telecommunication Symposium (IWTS’98) at Kuala Lumpur.
* **Singapore**, *1998,* To visit school of EEE, Nanyang Technical University.
* **United Kingdom**, *1998*, To present paper in XII EUROSENSORS Conference, held at University of Southampton, UK.
* **Italy**, *1998*, To attend workshops on “Microprocessor-based Real-time Systems” and “VLSI Design Techniques”, at ICTP, Trieste.
* **Italy**, *2000,*To attend workshop on “Mathematical Problems in Image Processing”.
* **Italy,** 2001, To attend Summer School on “Mathematical Control Theory”.
* **USA**, 2001, To present paper in IASTED Conference on “Parallel & Distributed Computing & Systems”, Anaheim, California.
* **United Kingdom England,** 2003, Short visit, Dept of Electronics & Computer Science, University of Southampton, July 2003-Sep 2003.
* **China,** 2004,*To attend and present paper in World Engineers Convention* **(WEC 2004),** Shanghai, 2-06 Nov 2004.
* **Thailand,** 2004,To visit Asian Institute of Technology(AIT) , Bangkok, Nov 2004.
* **UAE,** 2005, Invited by Intel Pakistan to attend workshop on “*High Performance Computing”*, organized by Intel Corporation, March 2004.
* **Italy,** 2005, To attend School on “Radio Based Computer Networking for Research and Training in Developing Countries”, Feb 2005.
* **Netherlands,** 2005 Private visit.
* **Belgium,** 2005, Session Chair in Telemedicine Conference.
* **Germany,** 2005, To attend training on Leybold Equipment at LeyboldDedatic, June 2005.
* **Finland,** 2005, To visit Helsinki University of Technology and Nokia R&D Centre, June 2005.
* **Sweden,** 2005, To attend 13th Nordic Baltic Conference Biomedical Engineering and medical Physics, June 2005.
* **Italy**, 2007, To attend workshops on “Advanced School in High Performance Computing Tools for e-Science” at ICTP, Trieste, March 2007.
* **ENGLAND,** 2007 to Sept 2008), To carryout postdoctoral research at the School Of Electronics & Computer Science University of Southampton, Southampton, UK.
* **Thailand,** 2009, To attend workshop on Erasmus Mundus Cooperation Window Project “Mobility for Life”, 12 Aug 2009.
* **Denmark, 2010,** To attend Postdoctoral Research Programme under Erasmus Mundus external Cooperation Window Project “Mobility for Life”– in cooperation with e-Learning Lab, Aalborg University, Denmark, May-June 2010.
* **Italy, 2011,**  To attend "Workshop on Applications of Wireless Sensor Networks for Environmental Monitoring in Developing Countries" organized jointly by ITU and ICTP, 28 Feb to 11 March 2011.
* **Malaysia, 2011,** To attend kick-off Meeting of European Commission Erasmus Mundus Project “Strong-Ties” at University of Malaya, 12 Oct-16 Oct 2011.
* **Thailand, 2012,** To present paper as a key note speaker in 1st International Conference on: 'Mobility for Life: Technology, Telecommunication and Problem Based Learning', 05-07 March 2012.
* **Denmark**, 2012, Department of Electronics, Aalborg University invited to conduct PhD defence as an external examiner, 25-28 June, 2012.
* **Spain,** 2012, Malaga University, Spain for MOU signing, 30 June, 2012.
* **Denmark**, 2012, To present invited key note paper in ITU/CTIF Conference at CTIF, Aalborg, 07-8 Oct 12.

• **Norway**, 2012, To witness NOBEL Peace Announcement ceremony, NOBEL Peace Museum Oslo, 12 Oct 2012,

* **Ireland,** 2013, Erasmus Mundus visiting Fellow at the Department of ECE, University of Limerick, Ireland, Aug-Oct 2013.
* **UK,** 2014, Erasmus Mundus exchange program collaboration, City University London, 26 Feb to 2nd March, 2014.
* **UAE**, 2014, Guest Speaker, SZABIST Dubai, 4th March, 2014.
* **Cyprus**,2014, Erasmus Mundus Selection Committee Meeting, Nicosia, 26 March-29th March, 2014.
* **Bahrain,** 2014, Guest Speaker, General electric (GE) Bahrain, 30th March, 2014
* **Ireland,** 2014, Invited by University of Limerick, Ireland to conduct PhD examination as an external examiner, 14-16 May, 2014
* **Lebanon,** 2014, Guest Speaker, National Instruments NIDays Conference, Beirut 17 May, 2014.
* **Turkey,** 2014, Private Visit, May, 2014
* **Denmark,** 2014, Invited by Aalborg University as an External PhD examiner in the area of IOT, Oct 02-04, 2014.
* **Thailand,** 2014**,** To attend kick-off Meeting of European Commission Erasmus Mundus Project LEADERS(- Leading Mobility between Europe and Asia in Developing Engineering Education and ReSearch**),** 16-18 Oct, 2014.
* **Malysia,** 2014, MOU Signing Ceremony and invited to deliver key note talk at UTM, : 24- 26 November 2014
* **Cyprus**, 2015, Erasmus Mundus LEADERS(- Leading Mobility between Europe and Asia in Developing Engineering Education and ReSearch**),** Selection Committee Meeting, Nicosia, 09 March-14 th March, 2015.
* **Ireland,** 2015**,** EU Erasmus Mundus Collaboration visit 23 Oct-02 Nov 2015.
* **Canada,** 2016, Private visit, June 2016.
* **USA,** 2016, To present paper in WMSCI 2016, Orlando, Florida, USA, on July 5-8, 2016
* **Spain,** 2016,To organize Global Conference on Wireless Optical communication (GCWOC’16) at Univ of Malaga, Spain, Sep 05-07, 2016.
* **UAE**, 2016, Private family visit, Sep 22-24, 2016
* **JAPAN**, 2017, invited by IEEE inc USA Asia Pacif Region 10 to participate in IEEE R10 meetings, Tokyo .
* **UK, 2017**, Erasmus Mundus visiting Fellow at the Department of ECE, City University, London, July-Aug, 2017.
* **Spain,** 2017,To organize Global Conference on Wireless Optical communication (GCWOC’17) at Univ of Malaga, Spain, Sep 18-23, 2017.
* **Norway**, 2018, invited to give presentation in EU Strategic Workshop on Social Innovation, Tromso, 14-18 May, 2018
* **Romania,** 2018, Invited by EU LEADERS program, Oradea Univ, 15-16 July, 2018.
* **Italy,** 2018, To conduct PhD examination at Politechnico Milano, 18 July, 2018.
* **Spai**n, 2018, EU staff Exchange visit under Erasmus International staff exchange program
* **Nepal**, 2018, To deliver keynote at International Conference on information Technology for Development (IT4D2018), Khatmandu, 01-05 Aug, 208.

**SERVICES TO EDUCATIONAL & PROFESSIONAL INSTITUTES/ ORGANISATIONS and COMMUNITIES**

**Organiser**, *TECHNO -91* (highly scientific and technological event organised under the aegis of Mehran University Science Society (MUSS) in collaboration with Mehran University of Engineering and Technology Jamshoro, Pakistan, 28th-29th December 1991.

**Organiser**, 1st, 2nd, 3rd, 4th, 5th,& 6th, 7th, 8th,9th Professor M.D. Makhdoom Memorial Lectures, every year from 1994 to 2002 (Guest speakers from Corporate sector /Multinational CEO’s were invited in the past).

**Convener**, Mehran University *ACADEMIC EXCELLENCE AWARD* 1994-95.

**Member**, Committee for Policy support and Curriculum Development, Province of Sindh, Government of Pakistan, 1994- 1997.

**Co-ordinator**, Mehran University Science Society, MUET, Jamshoro, 1991 – 1996.

**Presided** technical session of *10th INTERNATIONAL MULTITOPIC SYMPOSIUM* organised by Institute of Electrical Engineers Pakistan (IEEP) at Karachi Pakistan 12,13 Feb., 1992.

**Chief Organiser**, workshop on *INTERNET & INFORMATION SUPERHIGHWAY*, in collaboration with Intel Corporation (Pakistan), June 1997.

**Member,** Qualification Equivalence Committee (QEC) of Pakistan Engineering Council (PEC), 1997-2002.

**Honorary Secretary,** Mehran University Alumni Association (MUAA) MUET, Jamshoro, 1997-2001.

**Member**, Sindh Board of Technical Education from 1997- 2001.

**Organiser**, workshop on *ISO-9000*, MUET, Jamshoro, April 1998.

**Member,** Board of Directors, Agha Taj Mohammed Institute of IT (ATITM), 1999- 2005.

**Organiser,** workshop on "USING INTERNET FOR EDUCATION PURPOSE", at MUET, Dec 6-8 1999.

**Co-ordinator**, workshop on ONLINE LIBRARY & INFORMATION CENTRE MUET, 2000.

**Chief Organiser**, INTERNET OPEN DAY & ROAD SHOW in joint collaboration with Intel (Pakistan) and MUET on 5th April 2K.

**Session Chair**, “International Conference on “Parallel and Distributed Computing & Systems”, Anaheim, California, USA, 21-24 Aug, 2001.

**M,ember,** Organizing Committee**,** IEEE Conference on “Information and Communication Technologies”, Organized by IEEE Karachi Section, Hotel Sheraton, 15 June, 2002.

**Member,** Accreditation Committee (AC) of Pakistan Engineering Council (PEC), 2000-2002.

**Chief Organiser,** World Telecommunication Day, 17 May, 2002 to 2015 every year at MUET Jamshoro.

**Invited Guest Speaker,** Arena Multimedia conference “Multimedia: application & Prospectus, Organized by Arena Multimedia Hyderabad, 2002.

**Chief Organiser,** Workshop on *“Microprocessor Technology and Real-time Systems”,* in collaboration with RIMS, Karachi, Jan 2003.

**Organiser,** Workshop on “Data Ware Housing & Data Marts”, IIT, MUET, April 2003.

**Guest Speaker,** Jaycees Hyderabad community lecture on *“Microchip revolution*”, Feb 2004.

**Chief Organiser,** International Workshop on “Telecommunication Technology”, organized in joint collaboration with ElettronicaVeneta& IN.EL. SPA Italy, 13-14 Feb, 2004.

**Chairman,** Organizing Committee, moot on “World Telecom Day”, organized by the Deptt. Of Electronics & Telecommunication Engineering, MUET, 17th May 2004.

**Keynote Invited Speaker,** “Exploring Future Technology” on the occasion of 19th All Pakistan Electrical & Electronic Seminar, organized by IEEEP at Usman Institute of Technology, Karachi, 16th Feb 2004.

**Keynote Speaker,** Delivered lecture *”How microprocessor Technology has revolutionized the world of Information Technology”*organised Higher Education Commission (Karachi)- A series of public awareness lectures, 29 June 2004.

**Session Chair,** ACM/IEEE National Conference on Emerging Technologies, Organized by CAM/IEEE Karachi Chapter, SZABIST Karachi, Dec 2004.

**Chief Guest,** *“Future Technologies Road Show”,* organized by Intel Corporation Pakistan, 20 Dec 2004.

**Member,** Faculty Board, AllamaIqbal Open University, Islamabad, 2004-2007.

**Member,**Board of Studies, Baluchistan University of Information Technology and Management (BUITM), Quetta, 2004-2007.

**Organizer** “On Line Transaction Processing System”, Organized by IIT, MUET, 25th Jan 2005.

**Chief Coordinator,** Training on “Radio Networking Tool for GSM”, MUET Jamshoro, 16th April 2005.

**Chief Organizer,** “Fiber Optics Systems Specialist Training”, Telematics Labs, MUET, 4th – 7th July 2005.

**Editor,** MUET Convocation 2004 Magazine, Published on the occasion of 7th Convocation, 28th December 2004.

**Senior Member**, International Association of Computer Science and Information Technology (IACSIT), 2005-at present.

**Member,** Advisory/Technical Committee, National Conference on “Information Technology and Applications”(NCITA-2005), Organized by BUITM, April 2005.

**Chartered President,** New Mehran Lions Club Hyderabad, Lions International, April 2005.

**Active Member,** The New York Academy of Science (Founded 1817), 2005.

**Faculty Advisor,** IEP-MUET Chapter 2005-2008.

**Honorary Consulting Editor,** *Wireand Wireless Magazine* (ABC Certified Monthly Independent Science and Technology Magazine of Pakistan), 2005- at present.

**Member,** BOS PAF-KEIT, 2005-2012.

**Co-Chair,** Program Committee, 9th IEEE INMIC 2005 Conference, organized by Fast NU & IEEE (Karachi Section), 23-25 Dec. 2005.

**Session Chair,** 9th IEEE INMIC 2005 Conference, organized by Fast NU & IEEE (Karachi Section), 23-25 Dec. 2005.

**Organizer,** seminar on “Optical Cross Connect-Device for Next Generation Optical Networks”. Optical Cross connect”, Organized by IIT, MUET, 25th Jan 2005.

**Member,** Organizing Committee Workshop on “ICT Policy: Bridging the Gap Among Academia, Industry, and Government”, Organized by MUISTD, Sep 16, 2006.

**Honorary Consulting Editor** (Education) Engineering Review, September 2006 at present.

**Co-Chair,** Program Committee,International Multi-topic Conference (IMTIC2008), organized in Collaboration with **Aalborg University Esbjerg, Denmark**,Sponsored by HEC, April 11-12-2008.

**Convener,** Workshop on “Biomedical Engineering Curriculum Development”, Organized by Pakistan Engineering Council, Islamabad, 08-09 Jan, 2009.

**Session Chair**, National Research Conference on Computing, Management, and Social Science, SZABIST, Karachi, 2009.

**Chairman,** Technical Committee Electronics Division, Pakistan Standards & Quality Control Authority (PSQCA), 2009.

**Member**, Pakistan Engineering Council (PEC) Think-tank Committee on Engineering Education, 2008-2010.

**Lead Person,** at MUET for Erasmus Mundus Cooperation Window Project “Mobility for Life”, A European Union funded Human Resource Development Project (2009-2011).

**Ambassador,** Organizing Committee**,** XIXth Star Awards, South Asia Publications, Aiwan-e-Iqbal, Lahore, 08 Nov 2009.

**Member,** Editorial Board, Journal of Software Engineering & Technology (ISSN 0975-6159) published by International Science Press, since 2010.

**Session Chair**, “First International e-Health Conference: Better Health for All through e-Health”, Organized by eHealth Association of Pakistan (eHAP) held at Agha Khan University, Karachi, Jan 23-24, 2010.

**Member,** Board of Studies (BOS) of Department of Telecommunication Engineering, BUITM, Quetta, 2010-2013.

**Expert Member,** Charter, Inspection, and Evaluation Committee (CIEC), Education and Literacy Department, Government of Sindh, 2010- at present.

**Chief Organizer,** “IEEE Students Conference on Engineering, Sciences and Technology (SCONEST 11), IEEE-MUET Chapter, Oct 2011.

**Member**, BOS, Mechatronics Engineering, SZABIST, Karachi, 2012 – at present.

**Chief Organizer**,International Multi-topic Conference (IMTIC2012) jointly organized in collaboration with Erasmus Mundus StrongTies,Sponsored by HEC, 28-30 March, 2012.

**Lead Person,** at MUET for Erasmus Mundus Cooperation Window Project STRoNG-TiES” (Strengthening Training and Research through Networking and Globalisation of Teaching in Engineering Studies)”, A European Union funded Human Resource Development Project (2011-2014).

**Chief Organizer**, 1st International Conference on Wireless Sensor Networks for Developing Countries, 24-26 April, 2013, MUET, Jamshoro.

**Lead Person,** at MUET for Erasmus Mundus Cooperation Window Project STRoNG-TiES” (Strengthening Training and Research through Networking and Globalisation of Teaching in Engineering Studies)”, A European Union funded Human Resource Development Project (2011-2014).

**Lead Person,** at MUET for Erasmus Mundus Cooperation Window Project INTACT (It's Time for CollaboratioNTowArds Close CooperaTion), A European Union funded Human Resource Development Project (2013-2015).

**Chief Organizer**, 1st International Conference on Wireless Sensor Networks for Developing Countries, 24-26 April, 2013, MUET, Jamshoro.

**Chief Organizer**,International Multi-topic Conference (IMTIC’13) jointly organized in collaboration with Erasmus Mundus INTACT program,Sponsored by HEC, 18-20 Dec, 2013.

**Chief Organizer**, IEEE Pakistan Students GOLD/WIE Congress 2013 (PSGWC’13), held at MUET on 22nd Oct 2013.

**Lead Person,** at MUET for Erasmus Mundus Cooperation Window Project LEADERS (Leading mobility between Europe and Asia in Developing Engineering educations and ReSearch), A European Union funded Human Resource Development Project (2014-2017).

**Chief Coordinator,**29th IEEEP All Pakistan Students’ Seminar 2014 at MUET Jamshoro held on 22nd February, 2014.

**Co-Chair**, International Symposium on Emerging Technologies in Optical Communications

and Semiconductor Devices, in collaboration with MUET and NUST on 25-26 August, 2014, SEECS Auditorium, NUST H-12 Campus, Islamabad

**Chief Coordinator,** Cloud Computing workshop in Collaboration with IEEE COMSOC Karachi Chapter and XFlow Research Organization USA, held at MUET, 15-16 Oct, 2014

**Chief Patron,**1ST INTERNATIONAL WORKSHOP ON EMBEDDED SYSTEMS AND ITS APPLICATIONS (IWEMSA’15), 3RD – 5TH MARCH, 2015

**Chief Organizer**,International Multi-topic Conference (IMTIC’15) jointly organized in collaboration with Erasmus Mundus LEADERS ,Sponsored by HEC, 15-17 March, 2015.

**Chief Coordinator,** World Telecommunication Day, 17 May 2015

**Chief Organizer**, IEEE Day and I’m MUET event, 07 Oct 2015.

Director, **Asian Regional School on FPGA Design for Scientific Instrumentation, Organized by ICTP, Trieste, Italy.**

**Chief Organizer**, IEEE DIALOGUE 2016 ((Discovering Abilities &Lifetime Opportunities for GradUatingEngineers), at MUET Auditorium, 27 Jan, 2016.

**Chief Organizer,**  Global Conference on Wireless Optical communication (GCWOC’16) at Univ of Malaga UMA), Spain, Sep 05-07, 2016 and GCWOC17 at UMA Spain in Sep 2017.

**Chief Organizer,**  All Pakistan IEEEP students seminar and competition, 08 Feb, 2018.

**Chief Organizer,**  Global Conference on Wireless Optical communication (GCWOC’18) at Univ of Malaga UMA), Spain, 01-03, 2018 and GCWOC18 at UMA Spain in Oct 2018.

**Additional Administrative / Technical Positions in Various Institutions**

**Dean,** Faculty of Electrical, Electronics and Computer Engineering, 2011- 2018

**Chairman,** Department Of Electronics, Telecom and Biomedical Engineering, 1993- 2011.

**Member,** University Syndicate (BOG of the MUET), 2011 - 2018**.**

**Head,** WSN Research Group, 2006- to date.

**Member**, MUET Senate from 1992- to date.

**Director,** Institute of Information & Communication Technologies, (IICT), MUET, 2008-2011.

**Chairman**, board of studies, Department of Electronic & Telecommunication Engineering, MUET, Jamshoro, 1993- to 2011.

**Member,** Computer Board, Computing Centre, MUET, Jamshoro, 1993 – 1999.

**Member**, Academic Council, MUET, Jamshoro, 1993- to date.

**Member**, Board of Faculty of Engineering, MUET, Jamshoro, 1993- to date.

**Member,** Editorial board, MUET Research Journal of E & T, 1996 – to date.

**Member,** Editorial board, SCIENCE Magazine, Published in Sindhi Language by Sindh Science Society, Jamshoro, 1997 – to date.

**Expert Member,** National Curriculum Review Committee of Electronics discipline, UGC /HEC Islamabad, Pakistan, since 1998 .

**Member,** Board of Directors, Agha Taj Institute of Information Technology, Hyderabad, Pakistan,1999- 2008.

**Member,** Board of Directors, Petrolink Institute of Information Technology & Management, Hyderabad, Pakistan, 2000-2002.

**Director,** Industrial Liaison, Mehran University of Engineering and Technology, Jamshoro, 2002.

**Expert Member,** Selection Board, Department of Physics, University of Sindh, Pakistan, Jan 2002 – at present.

**Member**, Board of Studies (Computer Science), AllamaIqbal Open University, Islamabad, April 2004- 2007.

**Member,** Board of Studies, Telecommunication Engg, BUITM, Quetta, April 2010 – 2013.

**Member,** Accreditation Committee, Pakistan Engineering Council, 2003- at present.

**Member,** Governing Body, Pakistan Engineering Council, 1999-2002, 2005-2007, 2012-2014.

**Chief Editor,** “IT Vision” Magazine, Published by IT Vision Society , Jan 2005 – at present.(The Magazine is published in English, Urdu and Sindhi languages with objective to create IT awareness at school and college level).

**IT Related Articles Published in National Dailies / Magazines to Create Technology Awareness.**

* *“Breaking the Analog Barrier”,* BS Chowdhry, Technology Times, *Volume 05 Issue 30, June, 2014.*
* *“Innovation in engineering education: Problem and Project Based Learning,* BS Chowdhry, Technology Times, ,[Vol II. Issue 05](http://www.technologytimes.pk/mag/2011/jan11/issue05/index.html" \t "_blank),Feb 2011.
* *“Wireless Sensor Networks: A Revolution in Medical Health Care System”*,B.S. Chowdhry, Monthly Wire & Wireless, Issue 46, 47 Vol-IV, March 2009, P.10-13
* *“Empowering the light: Blazing speed over Optical Media”,* Monthly Wire & Wireless, Issue 37, Vol-IV, May 2008, P.10-12.
* *“Improving Engineering Education to Brighten Our Future”,* B.S. Chowdhry, J. of Engineering Review, Special Supplement, August 2007
* “DWDM Based Networks-Unleashing the Bandwidth”, B.S. Chowdhry, Monthly Wire & Wireless, Issue 16, Vol-III 2007, P.2-4.
* “Wireless Sensors Networks Technology Will be need of Every Field of Life”, BS Chowdhry, The daily DAWN, Invited key note article on special World Telecommunication Day Supplement, 17 May 2006.
* “CDMA-Unveiling Future Trends”, KD Shardha& B.S. Chowdhry, Monthly Wire & Wireless Magazine, p7-8, Jan.2006.
* “Frontiers of Telemedicine”, by B.S. Chowdhry and Engr. Tayab Din Memon, Monthly Wire & Wireless Magazine, p10-12, Dec.2005.
* “Cluster Computing Comes of the age”, B.S. Chowdhry, &Lubna L Chowdhry, Monthly Wire & Wireless Magazine, p10-12, Sept.2005.
* “Don’t Wait Until Dark”, by Dr. B.S. Chowdhry& Engr. Syed SherazRahmani, The Industrial Review, Vo. 1 No. 2, April 2004.
* “Mobile Communication Comes of Age”, by Dr. B.S. Chowdhry & Sarfraz Himayat Kaimkhani, Science Dotcom- DAWN Science, November 15, 2003.
* “Capacitive Sensors Revolutionize Sensing Technology”, by Dr. B.S. Chowdhry &Dr. A.W.J. Cranny, Science Dotcom- DAWN Science, September 27, 2003.
* “Exploring Future Technology”, by Dr. B.S. Chowdhry & Dr. A.Q.K. Rajput, Science Dotcom- DAWN Science, August 16, 2003.
* “[How cellular systems work for you”**,**  by Dr. B.S. Chowdhry & Naveed Shaikh**,** Science Dotcom-DAWN Science; June 28, 2003](http://www.dawn.com/weekly/science/archive/030628/science7.htm)
* “How IT Works for You”, Science Dotcom- DAWN Science, April 19, 2003.
* **“**[All about broadband Technologies”, Dr. B.S. Chowdhry, Khalil-ur-RehmanLaghari, Science Dotcom- DAWN Science, February 22, 2003](http://www.dawn.com/weekly/science/archive/030222/science1.htm)
* “Will Spintronics Be Tomorrow’s Technology”, by Dr. B.S. Chowdhry & Afzal Kamboh, Science Dotcom- DAWN Science, October 26, 2002.
* “The Multimedia Revolution”, by Dr. B.S. Chowdhry, Science Dotcom- DAWN Science, August 17, 2002.
* “Digital Convergence and the future of Telecom Market”, Dr. B.S. Chowdhry Science Dotcom- DAWN Science, April 5, 2002.
* A Device Called Microprocessor, Dr BS Chowdhry, DAWN Science, April 14, 1994.

**Other Articles / Poetry Published in National Dailies / Magazines**

* More than two dozen articles in national dailies Ibrat, Express, Indus online on my own life experience, motivation, and scholarship opportunities.