

Meritorious Prof. Dr. S. M. Aqil Burney

<http://www.drburney.net>

*Ex-Registrar University of Karachi
Ex-Chairman, Department of Computer Science, University of Karachi
Project Director and Director, Umaer Basha Institute of Information
Technology, University of Karachi
Project Director and Advisor for Main Communication Networks*



*Around 40 years of
Experience of Research,
Teaching and Educational
Management*

Overview

Dr. Aqil Burney is currently a Meritorious Professor (R.E.) and approved supervisor in Computer Science and Statistics by the Higher Education Commission, Govt. of Pakistan. He was also the founder Director (UBIT) & Chairman of the Department of Computer Science, University of Karachi. He is also member of various higher academic boards of different universities of Pakistan. His research interest includes artificial intelligence, soft computing, neural networks, fuzzy logic, data mining, statistics, simulation and stochastic modeling of mobile communication system and networks and network security, bioinformatics and MIS in health services and urdu-language processing.

Education

Prof. Dr. S. M. Aqil received Ph.D degree in mathematics from Strathclyde University, Glasgow with specialization in estimation, modeling and computer simulation of multivariate time series models/algorithms and software development. He received M.Phil in 1983 with specialization in computing, simulation and stochastic modeling in risk management.

First class first M.Sc. (Statistics) in 1972 from University of Karachi also highlights his marvelous educational achievements. During M.Sc. the emphasis was on modeling and simulation in econometrics. He did his B.Sc. (Physics, Mathematics, Statistics) from D.J. College in 1970 which is affiliated with the University of Karachi.

Research, Publications

He is author/co-author of four books, various technical reports and has published more than 110 research papers in national and international research journals and attended around 60 national and international conferences/seminars/symposiums. He supervised hundreds of projects in operation research, statistics, simulation and modeling, software engineering and intelligent systems, stochastic processes and biological/physical sciences. Eight research scholars completed Ph.D and five research students completed M Phil / M.S under his supervision in mathematical and computing sciences. At present more than five M.S./Ph.D. scholars are working under his supervision in the field of CS/IT and statistics.

	<p>Dr. Burney is active researcher and professor of ICT with strength in mathematical and statistical modeling in science, technology, business and social sciences. Prof. Burney has supervised four Ph.D.s and has published more than 10 research papers in international conferences and journals in the year 2010–11 and three or more publication upto date in 2011</p>
<p>Participation in Educational bodies / committees</p>	<p>He was a member of Board of Advanced Studies, University of Karachi (2007-2010), member of Charter, Inspection & Evaluation Committee for private universities of Sindh since 2004 and also member of Sindh IT Board, Ministry of Information Technology, Govt. of Sindh. Dr. Burney is also a referee of various national and international journals and was conference and programme chair for many international conferences and delivered invited lectures.</p>
<p>Member of Professional bodies</p>	<p>He is a member of many international research groups and bodies including IEEE (USA), ACM (USA), World Academy of science (Engineering and Academy), <i>World Scientific and Engineering Academy and Society</i> (WSEAS), Royal society of Statistical Society (UK), Islamic Society of statistical sciences and Computer Society of Pakistan. He has been teaching since 1973 in various universities such as Agriculture University Tandojam, University of Karachi, Gomal University, NED, IBA (Karachi), Sindh University, IBA –Sukkur and University of Baluchistan on full time basis, as visiting faculty and research associate in the field of econometrics, bio-statistics, statistics, mathematics and computer science.</p>
<p>Educational / Professional Management</p>	<p>He has a vast education management experience at the university level , he was chairman of the department of computer science (three times), Founding director, UBIT, served as Registrar, university of Karachi and also served as an acting Dean of Science, University of Karachi, founding director Main Communication Network, University of Karachi. (2006-January 2011).</p> <p>Dr. Burney also helped, guided and advised in establishing private higher educational institutions in Pakistan, especially in Sindh in coordination with UGC(1980-2000), HEC and with Government of Sindh (2004 – date)</p>
<p>Information and Communication Projects</p>	<p>Prof. Burney has wide experience in conceiving, presenting and managing ICT projects which includes: strengthening of Department of Computer Science Project sponsored by Ministry of Science and Technology (2001-2005) with emphasis on laboratories development and strengthening of teaching faculty; Development of High speed Fiber optics Networks with Wireless Support at university of Karachi, sponsored by HEC (2002-2006); Development of UBIT, ICT infrastructure and teaching facilities sponsored by University of Karachi and HEC (2002-2009). He was also the secretary of Endowment fund project of Karachi University Information Technology Trust. Now Prof. Burney is re-employed as Meritorious Professor w.e.f. May 1, 2011 in Department of Computer Science, University of Karachi.</p>

Medals and Honors

Dr. Burney have been awarded best IT academician in the Country in 2003 by NCR (Pakistan). He was also a member of national curriculum committee on CS/SE and IT (1996–2011). He was the convener of national curriculum revision committee of BS/MS Software engineering in 2009. For further information see detail resume or visit the website www.drburney.net

Contributions to Society and public awareness

Prof. Aqil Burney takes keen interest in social work and project of public interest and supervised & research work for special persons deaf & blind and gave a homogeneous education model for normal and special students to study in the same class and helped in developing girls/woman IT education centre of Sadiq Foundation Noshero Feroz. Professor Burney also running Burney education trust to sponsor needy & intelligent students in ICT and other physical and Social Sciences.

He also helped in computer Literacy Program in Orangi Pilot Project in 1990s.

He was interviewed widely for newspaper, magazines and electronic media (Radio and TV Channels).

Curriculum Vitae of

MERITORIOUS PROFESSOR DR. S.M. AQIL BURNEY

UNIVERSITY OF KARACHI

(Approximately 40 years experience of Teaching, Research &
Academic
Management and Administration)

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3462,3447,2447,2462 (O) | 92-0300-9261917 (C)
www.drburney.net

Personal Information

- 1. Place of Birth** Karachi
- 2. Date of Birth** **13 January 1951, Date of retirement: 12 January, 2011**
- 3. Nationality** Pakistani
- 4. Service** Served at University level at various administrative and teaching positions for about 40 years (Re-employed from 30 April 2011 as Meritorious Professor, UoK)

Qualifications

Degree	University	Year
Matriculation	Karachi Board	1966
H.S.C.	Karachi Board	1968
B.Sc.	Karachi	1970
M.Sc.	Karachi	1972 (<i>First Class First</i>)
M.Phil	Karachi	1983
Ph.D.	Strathclyde	1987 (On Scholarship by Govt. of Pakistan)

Specializations and Research Interests

Field of Specialization (M.PHIL):

Stochastic models of insurance business & related computing methods

Field of Specialization (PhD):

Estimation of Parameters of Multiple Time Series Models (Development and analysis of algorithms & simulation studies i.e. signal analysis in time domain).

Fields of Research and Development (1980-2010):

Simulation & Modeling, Data Mining, Software Development for Time Series Models / Temporal Databases, Communication & Networking, Project Management, Risk Management & Econometrics, Soft Computing and Artificial Intelligence(Bayesian Networks, Neuro Fuzzy Logic), Networking Planning & Management, Cyber Security, University and Industry Coordination Projects, Project Management, Operations Research in ICT and Urdu language Processing. Statistical Modeling and Simulation in Business and Technologies.

Countries Visited

for Conferences, Seminars & Education (As Conference Chair and member of various International conferences (see www.drburney.net) on ICT/Mathematics, Statistics, AI, Soft Computing & Network Management and cyber culture with invited lectures abroad.

- Canada
- United Kingdom
- Malaysia
- Singapore
- Morocco
- Italy
- Indonesia
- Saudi Arabia
- UAE
- Turkey

Experience:

More than **39 Years** experience of teaching in the following institutions

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|-----|--|-----------------|
| 1) | Agriculture University, Tandojam | 1973 |
| 2) | Karachi University | 1973-75 |
| 3) | Calgary University Teaching Assistant | 1975-76 |
| 4) | Karachi University | 1976-77 |
| 5) | Gomal University | 1977-78 |
| 6) | Karachi University | 1978 – continue |
| 7) | Strathclyde University Teaching Assistant | 1984-87 |
| 8) | NED University | 1989-91 |
| 9) | Sind University (Ph.D. Supervision of student) | 1992-96 |
| 10) | Courses or Invited Lectures; Advisory at many private sector universities Sir Syed University of Engineering & Technology, PAF-KIET, KIIT, IBA(Karachi), NIPA, NUST(Karachi), FAST, Hamdard University, Iqra University, CBM, MAJU, Allama Iqbal Open University, Islamabad, IBA (Sukkur) etc. | 1995-2009 |
| 11) | Invited / Guest Speaker & Teacher for Research Methods & Curriculum Development. 2009-2010, by HEC, University of Karachi, IBA Sukkur. | 2009-continue |

Posts

- 1) Lecturer 1973 to 1975
- 2) Teaching Assistant 1975 to 1976
- 3) Co-Operative Teacher 1976 to 1977
- 4) Lecturer 1977 to 1982
- 5) Assistant Professor 1982 to 1992
- 6) Associate Professor 1992 to 1995
- 7) Professor 1995- continue
- 8) Chairman, Dept. of Computer Science 1994- Sep, 2000
- 9) Professor Dept. of Statistics Sep, 2000 to Oct, 2001
- 10) Professor Dept. of Computer Science Nov 2001 to 12 January 2011
- 11) Visiting Professor, Dept of Computer Engineering, SSUET Feb, 2001- continue
- 12) Visiting Faculty, Dept. of Computer Science, PAF KIET Oct 2000 – continue
- 13) Visiting Faculty, FAST-ICS 1988-89
- 14) Registrar, University of Karachi Oct 2001 - Sep 2002
- 15) Project Director, Development of Dept of Computer Science, University of Karachi (MoST) Jan 2002 – 10 January 2011
- 16) Project Director, Umeear Basha Institute of Information Technology (UBIT), University of Karachi . Now Director (UBIT/DCS) April 2002 – March 2009.
Director 6March 2009 to 10 January 2011
- 17) Project Director, Establishment of High Speed Fiber Optic Based LAN with Wireless Computing Support at University of Karachi September 2003
10 January 2011
- 18) Project Director, University of Karachi Information Technology Trust 2004
10 January 2011
- 19) Member Charter Inspection and Evaluation Committee, Education and Literacy Department, Government of Sindh. 2004- continue
- 20) Grade BPS-21, awarded by Governor Sindh / Chancellor, University of Karachi. 30th Sep,2006
11th May, 2005
- 21) Member, Board of Advanced Studies & Research, University of Karachi. 13th Sep,2007
12th Sept 2010
- 22) Founding Director, Main Communication Networks, University of Karachi & (Website of University of Karachi) 18th Nov 2006
10 January 2011
- 23) Chairman, Dept. of Computer Science 1ST March-2008
10 January 2011
- 24) Award of Meritorious Professor and grade BPS-22 by Governor of Sindh / Chancellor, University of Karachi. 12th May-2006
(in BPS 21 and in BPS22 from-May 2008 - 10 January 2011
- 25) Director / Chairman ; DCS-UBIT, UoK 03rd March 2009-10
January 2011
- 26) DEAN, Faculty of Science, University of Karachi 07 June 2010- 28
June 2010
- 27) Meritorious Professor (Re-employed) 30 April 2011 –
continue

Publications:

More than 100 publications (In the field of Statistics, Mathematics, Numerical Computing, Computer Science, Computer Graphics, Simulation, Econometrics, Operations Research, I.T. Artificial Intelligence, Risk Theory, Insurance and Soft Computing (Neuro Fuzzy Logic). (See Research Publications)

Books:

- 1) **The Y2K Problem**, 1999. Department of Computer Science, University of Karachi.
- 2) **DIGITAL CIRCUITS DESIGN USING DESIGN CENTRE SIMULATION PACKAGE.** (Published by Karachi University Press, August 2001)
- 3) **RISK THEORY AND INSURANCE: A STOCHASTIC APPROACH.** (Published by KU Press, January 2003)
- 4) **COST AND MANAGEMENT, ACCOUNTING TECHNIQUES EMPLOYED THE COTTON TEXTILE (RING) SPINNING INDUSTRY OF PAKISTAN.** PUBLISHED BY ICMA, PAKISTAN.
- 5) **Published in Springer (Germany; Book series on Advances in Soft Computing Analysis and Design of Intelligent Systems Using Fuzzy Logic and Soft Computing, Advances in Soft computing 41, Springer Verlag, (Edited by Merlin et al) Springer Verlag, Germany. (2007).** Aqil Burney S. M. and Jilani T. A. (2007), M-Factor High Order Fuzzy Time Series Forecasting for Road Accident Data, in IEEE-IFSA, 18-21 June, Cancun- Mexico. Published in Analysis and Design of Intelligent Systems Using Fuzzy Logic and Soft Computing, Advances in Soft Computing, 41, Springer-Verlag.
- 6) **Published in Springer Verlag's (Germany) Book series on Advances in soft computing. "Theoretical Advances and applications of Fuzzy Logic and Soft Computing, advances in Soft Computing 42. Springer Verlag.** Aqil Burney S. M. and Jilani T. A. and (2007), New Method of Learning and Knowledge Management in Type-I Fuzzy Neural Networks, Accepted in IEEE-IFSA, 18-21 June, World Congress, Cancun- Mexico. Published in Theoretical Advances and Applications of Fuzzy Logic and Soft Computing; Advances in Soft Computing, 42, Springer-Verlag.
- 7) **S.M. Aqil Burney, Nadeem Mahmood (2011), TEMPORAL AND FUZZY RELATIONAL DATABASES , Lambert Publishers GERMANY.**
- 8) **S.M. Aqil Burney, Syed Akhtar Raza, Time Series Analysis of High Speed Wireless Networks, (2011) Lambert Academic Publishing GERMANY.**

Membership of Professional Organizations:

- 1) Professional Networking Chair (International Webmasters Association, Pakistan Chapter) 1997-98
- 2) American Statistical Association (USA) 1979-1994
- 3) Royal Statistical Society (UK) Continue
- 4) Pakistan Computer Society
- 5) IEEE-CS (USA) Continue
- 6) ACM (USA) Continue

Membership of Academic Forums: (Now or Was)

- 1) Member Academic Council, Karachi University
- 2) Member Board of Studies, Sir Syed University of Engineering & Technology, Karachi.
- 3) Member Board of Studies as Expert, Computer Science, Shah Abdul Latif University, Sind.
- 4) Member Board of Studies as Expert, Institute of Information Technology, University of Sindh, Jamshoro.
- 5) Member of Experts Committee for National Curriculum Revision Committee (NCRC) on the subject of Computer Science (1998), 2004 (HEC).
- 6) Member Board of Studies, Department of Computer Science, University of Baluchistan.
- 7) Member Board of Studies, Dept. of Statistics, University of Karachi.
- 8) Elected member Board of Governors by Academic Council, University of Karachi for Institute in Islamabad affiliated with KU.
- 9) Member Board of Governors, Umeear Basha Institute of Information Technology, University of Karachi. (Nominated by V.C., KU)
- 10) Member Sind IT Board
- 11) Chair, CS/IT Curriculum development team for Sind for Sind IT Board

- 12) Member Curriculum Development Team 2004,2008, HEC on CS/IT.
- 13) Member Board of Governors Sadiq Foundation Noshero Feroz.
- 14) Member Board of Studies, IBA, Sukkur.

Awards

- 1) Performance Shield from PAF KIET for helping in establishing the Institute(Sept `00)
- 2) Best Work in IT & Statistics by ISOSS (Islamic Society for Statistical Sciences)
- 3) NCR IT Excellence Award for IT Educationalist of year 2002(Awarded in January 2003)
- 4) Shield Awarded by the Vice Chancellor, University of Karachi on the completion of project High Speed Fiber Based LAN with Wireless Computing Support at UoK.

Supervised Software Development Teams

- 1) Supervised teams from Dept of Computer Science, for SEARC 1994, XIII South East Asia, Regional Computer Conference at Sheraton Hotel, November 27-30, 1994
- 2) Supervised Teams for A.Q. Khan Software Competition from 1995-99. Teams won many prizes.
- 3) Supervised a Software Project for the Blind "Roshni" which guided special children to read won special prize at A.Q. Khan Software Competition 2000. The project also included development of a printer, which could print in Brail.
- 4) Supervised many such projects 2002-2008.

Special Assignment by Governor Sindh & Chancellor of Universities of Sindh:

- 1) Acted as co-coordinator for Unified Curriculum for Computer Science/IT for the Universities of Sind. (August 1997-March 1998) *Available on request.*
- 2) *Member Chartered Inspection & Evaluation Committee, Government of Sindh. (2004-continue).*

Research Supervision: (Ph.D candidates)

NAME	YEAR OF REG / DEGREE	TITLE	SUBJECT	STATUS
Dr. Akhtar Raza	(2004) (M.Phil / Ph.D.) UNIVERSITY OF KARACHI	Time series models for management of computing infrastructure and resources for forecasting and control	Computer Science	COMPLETED Ph.D. degree Awarded (2011)
Dr. Syed Asif Ali	(M.Phil / Ph.D.) UNIVERSITY OF KARACHI	Artificial Intelligence techniques in Special Education using Information Technology	Computer Science	COMPLETED Ph.D. degree Awarded (2011)
Dr. M. Zamin Ali Khan	2008 (PhD) UNIVERSITY	Statistical approach to	Computer Science	COMPLETED Ph.D. degree

	OF KARACHI	design analog VLSI / low power low noise CMOS amplifier for wireless application		Awarded (2011)
Dr. M. Sadiq Ali Khan	(2006) M.Phil / Ph.D.) UNIVERSITY OF KARACHI	Recent trends in computer intrusion detection and network monitoring: A statistical modeling approach	Computer Science	COMPLETED Ph.D. degree Awarded (2011)
Dr. Nadeem Mahmood	(2003) (M.Phil / Ph.D.) UNIVERSITY OF KARACHI	Applications of Temporal Logic in RDBMS	Computer Science	COMPLETED Ph.D. degree Awarded (2010)
Dr. Tahseen Jilani	(2003) (M.Phil / Ph.D.) UNIVERSITY OF KARACHI	Soft computing applications in Actuarial Science	Computer Science	COMPLETED Ph.D. degree Awarded (2007)
Maj. Dr. Afzal Saleemi	(2002) (M.Phil / Ph.D.) UNIVERSITY OF KARACHI	New trends in smoothing and filtering of temporal data using information technology	Computer Science	COMPLETED Ph.D. degree Awarded (2006)
Dr. Noor Ahmed Sheikh	(1991) University of Sindh, Jamshoro, Pakistan.	<i>Some Work On Machine Repair Problem</i>	Computer Science	Completed Ph.D degree awarded (1996)
Mr. Badar Sami	(2004) (M.Phil / Ph.D.) UNIVERSITY OF KARACHI	Statistical techniques in Text Mining of information retrieval systems	Computer Science	Final stages
Mr. Hussain Saleem	2003 (M.Phil./ Ph.D.) UNIVERSITY OF KARACHI	Software configuration management with emphasis on trace dependency analysis	Computer Science	Final stages
Mr. Syed Asim Ali	2007 (M.Phil./ Ph.D.) UNIVERSITY OF KARACHI	Developing an Information and Communication Technology Acceptance Model in the context of Social Environment and measuring the Performance using Diffusion Models	Computer Science	Final stages
Ms. Humera Tariq	2008 (M.S./ Ph.D.) UNIVERSITY	Soft Computing Algorithms	Computer Science	In progress

	OF KARACHI	(SCAS) & REGION BASED ALGORITHMS (RBAS) FOR BIO MEDICAL IMAGE SEGMINATION A COMPARATIVE STUDY		
Mr. Zain Abbas	2008 (M.S./ Ph.D.) UNIVERSITY OF KARACHI	Intelligent web technologies using Rough sets in context of healthcare information	Computer Science	In progress
Mr. Qamar-ul-Arifeen	2008 (M.S./ Ph.D.) UNIVERSITY OF KARACHI	Soft computing approach in forensics: An intelligent approach	Computer Science	In progress
Mr. Jawed Nasim	2009 (M.S./ Ph.D.) UNIVERSITY OF KARACHI	Application of ICT in Agricultural science: A Pakistan case study	Computer Science	In progress

- 1) MS thesis on Different Networking Paradigms at SSUET.(MS programme in Computer Engineering with specialization Networking).
- 2) BS theses in the following domains: Data Mining, AI, ANN, VoIP, Bayesian Networks, Semiotics, Data Warehousing & DSS, Object Oriented Databases, Parallel Virtual Machines.(2002-Continue) List of thesis available.(More than 50 thesis 2003-2008)
- 3) More than 100 M.Sc./MCS Software & Modeling Projects related with Operations Research, Statistics, MIS, Computer Graphics, OPP, Software Engineering (1994-2003)
- 4) Currently supervising 10 candidates for PhD in Temporal Databases & Data Mining Algorithms and Forecasting Using Artificial Neural Networks. Also supervising one M.Phil candidate in Software Development using Java for Data Mining & Similarity Analysis (Queries) List of Ph.D students available on www.drburney.net
- 5) HEC approved Supervisor of Statistics and Computer Science.
- 6) Supervising more than 6 MS/Ph.D students, work started in 2009.
- 7) Started MS/PhD program with coursework in 2009. Two batches have completed their coursework and doing theses.

Seminars/Lectures at University of Karachi

Arranged a series of Seminars on DBMS, MIS, Computer Graphics, Office Automation, Advance Computing Systems, Clients/Server Technology, OOP, Networking, Data Warehousing, VoIP, Wireless Computing, Software Configuration Management(SCM), AI, ANN, Data Mining, Fuzzy Logic, Queues, Software Engineering etc. Arranged more than 50 invited lectures during 1994-1998. 2001-02 (For University Staff), Summer Programme, 2002-03 (Network and Web Development programmes)2005-08 (Training for University Teachers), Cyber Crimes & Associated Law, Soft Computing. Information System Control and Audit (Oct 2009)Many Presentation available on my web:www.drburney.net and some will be available on CD.

Administrative Responsibilities & Projects

- 1) **Registrar, University of Karachi** (Oct 2001 – Sep 2002)
- 2) **Senior Warden Boys Hostel, University of Karachi** (1988 –1994)
- 3) **Provost, Boys Hostel, University of Karachi** (22 Oct, 1994 – 9 February 1999)
- 4) **Chairman Department of Computer Science University of Karachi** (05 May,1994 to 13 September 2000) and (2008- 12 January 2011).
- 5) **Project Director of the Project “Development of Department of Computer Science UoK.**(2002 to 2005). (Sponsored by Ministry of Science and Technology)
- 6) **Project Director Umaer Basha Institute of Information Technology(UBIT), UoK** 2002 to 2008).
- 7) **Project Director High Speed Fiber Optics Network with Wireless Support at UoK.**(2002-2006).
- 8) **Project Director High Speed Fiber Optics Network with Wireless Support at UoK.**(2nd phase).
- 9) **Project Director for Management University of Karachi website www.uok.edu.pk** (2002-2006). Founding Director, Main Communication Network.
- 10) **Project Supervisor For University Industry Coordination in ICT, Project started in 2010 and in progress for developing products (software) for mobile communication.**

Resource Person

- 1) At National Institute of Public Administration (NIPA) 1990-95 for teaching Operations Research, Statistics and Packages.
- 2) At Cabinet Secretariat (Karachi) 1989, 1990, 1993, 1997 for teaching Operations Research, Simulation & Modeling.
- 3) IT/CS and its importance arranged by Computer Friendship Society (of JAPAN) at AVARI Towers in 1996 for college teachers and principals.
- 4) Internet & its uses with Demo at AVARI Towers in 1997 by Computer Friendship Society.
- 5) Hamdard University: Lecture of AI with Application at Hotel Regent Plaza, Karachi (1999).
- 6) FAST, Karachi: “Stochastic Process with Application in Computer Science & Insurance” (1994).
- 7) FAST Lahore: IT/CS Education Discussion Group (1998) on IT education in Pakistan.
- 8) Governor House : CS/IT Curriculum in Universities of Sindh presentation at Governor House and a report was submitted (Report available on request).
- 9) Degree College Malir Cant. : “Teaching Computer Science & Curriculum” at college level. (1999).
- 10) I.B.A., Karachi: Invited lecture “Strategies for Developing Curriculum” (1997).
- 11) Bazam Science Karachi: Y2K, Computer & related problems. Dr. Saleem-uz-Zaman Center, Karachi (1999).
- 12) Memorial lecture at Institute of Mathematics and Computer Science, Sindh University.
- 13) Dr. M.N. Talpur Memorial lecture on “Application on Stochastic Process in Computer Science and Insurance Business”. Institute of Mathematics & Computer Science, Sindh University.
- 14) Member Selection Board of Computer System, Sir Syed University, Karachi.
- 15) Member Board of Studies & Selection Board on Computer Science, Shah Abdul Latif University, Khairpur.
- 16) Member Board of Studies, Institute of Information Technology, Sindh University.(continue)
- 17) Govt. Ministry of Education (Curriculum Wing) Member National Evaluation Committee on the subject of Computer Science multiple textbooks and teachers guide (1995).
- 18) Computer Society of Pakistan seminar on Urdu Software Development Presided the 2nd session on invitation CSP and was awarded shield of the Society (September 25, 1999).
- 19) Allama Iqbal Open University for invited lecture on “Modernization of Education using IT” at Silver Jubilee Ceremony of AIOU, Islamabad, November 16, 1999. (A multimedia presentation).
- 20) Member National Curriculum Committee for CS,IT,Software Engineering 2004,HEC, Islamabad.
- 21) Member National Curriculum Committee for CS/IT/Software Committee 2008-2009.Conviner Software Engineering Curriculum committee held at HEC Karachi, April 7-9,2009.
- 22) Invited Speaker, (Singapore, ICCSIT, www.iccsit.org), NUST, Karachi, LUMS, Lahore, Istanbul, Turkey and various other places, conferences seminars. See www.drburney.net.
- 23) Invited Professor to teach Research Methods to MS/Ph.D. students at IBA Sukkar, (2009-2010).
- 24) Articles published in leading newspapers and interviews conducted by many TV channels, newspapers and magazines.

Research Publications

- 2011
- 116 M. Zamin Khan and S.M. Aqil Burney (2011) Statistical Approach to design 1Ghz CMOS Low-Noise Amplifiers. International Journal of Computer Science Issues.
- 115 a) **BOOK: Temporal and Fuzzy Relational Databases, Application of Patient Data in Health-Care Information Systems. LAMBERT ACADEMIC PUBLISHING GERMANY.**
- b) **BOOK: S.M. Aqil Burney, Syed Akhtar Raza, Time Series Analysis of High Speed Wireless Networks, (2011) Lambert Academic Publishing GERMANY.**
- c) **S.M. Aqil Burney and Sadiq Ali Khan; “Efficient FSM Techniques for IDA to Reduce the System Attacks”, International Journal of Computer Applications Volume 29- No.11, September 2011. Published by Foundation of Computer Science, USA. 10.5120/3703-5121.**
- d) **S.M. Aqil Burney and Tahseen Jilani; Multivariate Stochastic Model for TAIFEX and Temperature Forecasting Using Fuzzy Logical Relationships and Genetic Algorithm to be publish in International Journal.**
- 114 Zamin Ali Khan ,S. M. Aqil Burney, , Jawed Naseem, Kashif Rizwan, Optimization of Power Consumption in VLSI Circuit. IJCSI International Journal of Computer Science Issues, Vol. 8, Issue 2, March 2011 ISSN (Online): 1694-0814 www.IJCSI.org
- 113 An article on Risk Management using Soft Computing to be published (In progress).
- 2010
- 112 Aqil Burney, S.M. ,Nadeem Mahmood and Kamran Ahsan(2010)TempR-PDM: A Conceptual Temporal Relational Model for Managing Patient Data.The 9th WSEAS International Conference on Artificial Intelligence , Knowledge Engineering and Data Base at University of Cambridge ,UK ,Feb. 20-22,2010.
- 111 Aqil Burney ,S.M Nadeem Mahmood and Kamran Ahsan (2010); A Logical Temporal Relational Data Model. International journal of computer science issues, Vol.7, issue 1. No.1. pp 1-9 ISSN: 1694 -0814,
- 110 Aqil Burney, S.M.Nadeem Mahmood and Kamran Ahsan (2010); Temp R-PDM: A Conceptual Temporal Relational Model for Managing Patient Data . In Proceeding of the 9th WSEAS International Conference on Artificial intelligence, Knowledge Engineering and Data Bases (AIKED’10) at University of Cambridge , U.K ,Feb.20 -22-2010 ,pp .237-243
- 109 Aqil Burney, ,Nadeem Khan Mahmood Tahseen Jilani and Hussain Saleem , 2010 WSEAS transactions on information science and applications ,IISN: 1790 -0832.
- 108 Zamin Khan”A systematic and Statistical approach to design a low noise amplifier in sub – micron CMOS technology “ WMSCI 2010, OPRLANDO FLORIDA,
- 107 Aqil Burney, Akhtar Raza Syed and Afzal SAlemi,2010; Fast clustering of self-similar network traffic using wavelet, international journal of computer science issues Vol. 7 issue 3 May 2010 ISSSN 1694-0814.
- 106 Aqil Burney , Hussain Saleem, Nadeem Mahmood and Tahseen Jilani, 2010 ; Evolving Traceability management Ontology for patient data in Hospotal Environment,3rd IEEE international conference on COMPUTER SCIENCE AND INFORAMTION Technology (IEEE ICCSIT 2010) July 9-11,2010 Chengdu , China.

- 105 S.M. Aqil Burney, Syed Asif Ali, 2010; Conversion of Heterogeneous Education System (HeES) into Homogeneous Education System (HoES) for ease of Disables using Information Technology, International Conference on Computer Design and Applications (ICDA 2010) (IEEE, IACSIT) June25-27, 2010, Qinhuangdao, China.
- 104 Aqil Burney, S.M. Nadeem Mahmood, Tahseen Jilani and Hussain Saleem (2010). Conceptual Fuzzy Temporal Relational Model (FTRM) for Patient Data WSEAS Transactions on Information Science and Applications, IISN 1790-0832.
- 103 Aqil Burney, S.M. Nadeem Mahmood and Zain Abbas (2010). Information and Communication Technology in Healthcare Management Systems: Prospects for Developing Countries. International Journal of Computer Application (0975-8887) Volume 4-No. 2, July 2010. Published By Foundation of Computer Science.
- 102 Aqil Burney and et al (2010). Feature Deduction and Ensemble Design of Parallel Neural Network for Intrusion Detection System. International Journal of Computer Science and Network Security, Vol.10, no.10, Oct.2010 (pp.259-267).
- 101 Aqil Burney and et al (2010). Network Usage Policies for Academic Institutions. International Journal of Computer Applications No.14. Vol 7. (pp6-11).
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