

BRIEF RESUME OF
PROFESSOR DR. S.M. AQIL BURNEY
DEPARTMENT OF COMPUTER SCIENCE
UNIVERSITY OF KARACHI

Email burney@computer.org | aqil_burney@yahoo.com | aqil@cs.ku.edu.pk
Telephone: 92-21-4824081 (H) | 92-21-9261300-6 Ext 2447 (O) | 92-0300-9261917 (C)
www.drburney.org

1. **Date of Birth** 13-01-1951
2. **Place of Birth** Karachi
3. **Nationality** Pakistani
4. **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

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), Simulation & Modeling, Data Mining, Software Development for Time Series Models

5. Countries Visited for Conferences, Seminars & Education:

Country	City	Year
Canada	Calgary	1975
United Kingdom	Glasgow, Edinburgh, London, Sheffield, Oxford	1984-87
Malaysia	Johor Baro	1990
Singapore	--	1990
Morocco	Rabat, Casablanca	1992
Italy	Rome	1992
Indonesia	Surabaya, Jakarta	1996
Saudi Arabia	Dammam, Jeddah, Mecca, Medina	2002
UAE	Dubai	2003
Turkey	Istanbul	2004

6. Experience:

More than **30 Years** experience of teaching

i	Agriculture University, Tandojam	1973
ii	Karachi University	1973-75
iii	Calgary University	1975-76
iv	Karachi University	1976-77
v	Gomal University	1977-78
vi	Karachi University	1978 - continue
vii	Strathclyde University	1984-87
viii	NED University	1989-91
ix	Sind University (Ph.D. Supervision of student)	1992-96

7. Posts

i	Lecturer	1973-75
ii	Teaching Assistant	1975-76
iii	Co-Operative Teacher	1976-77
iv	Lecturer	1977-82
v	Assistant Professor	1982-92
vi	Associate Professor	1992-95
v	Professor	1995- continue
vi	Chairman , Dept. of Computer Science	1994- Sep, 2000
vii	Professor Dept. of Statistics	Sep, 2000 - continue
viii	Professor Dept. of Computer Science	Nov 2001- continue
ix	Visiting Professor, Dept of Computer Engineering, SSUET	Feb, 2001- continue
x	Visiting Faculty, Dept. of Computer Science, PAF KIET	Oct 2000 - continue
xi	Visiting Faculty, FAST-ICS	1988-89
xii	Registrar , University of Karachi	Oct 2001 - Sep 2002
xiii	Project Director , Uplift Project, Dept of Computer Science, University of Karachi (MoST)	Jan 2002 - continue
xiv	Project Director , Karachi University Umear Basha Institute of Information Technology (UBIT)	April 2002 – continue
xv	Project Director , Establishment of High Speed Fiber Optic Based LAN with Wireless Computing Support at University of Karachi	September 2003 – continue
	Project Director , Karachi University Information Technology Trust	
xvi	Member Charter Inspection and Evaluation committee, Education and Literacy Department, Government of Sindh, Barak No. 9, Sindh Secretariat Block No. 4 A, Karachi 74, 200, Tel. 9203121; 9204773; Fax 9204731	2004- continue

8. Publications:

70 (In the field of Statistics, Mathematics, Numerical Computing, Computer Science, Computer Graphics, Simulation, Econometrics, Operations Research, I.T. Artificial Intelligence and Risk Theory and Insurance)

9. Books:

- The Y2K Problem*, 1999. Department of Computer Science, University of Karachi.
- DIGITAL CIRCUITS DESIGN USING DESIGN CENTRE SIMULATION PACKAGE*. (Published by Karachi University Press, August 2001)

- iii) ***RISK THEORY AND INSURANCE: A STOCHASTIC APPROACH.*** (Published by KU Press, January 2003)
- iv) ***DATA MINING: SHAPING STATISTICS IN THE INFORMATION TECHNOLOGY AGE*** (Knowledge exploration and forecasting algorithms approach) (To be published in 2003)

10. Fields of Interests

Applied Statistics & Environment, Data Analysis & Modeling, Applied Stochastic Processes, Software Engineering, Simulation, System Management & TQM and Operations Research

Current Interests: Software Configuration Management (SCM), Software Metrics & IT Management, AI with Applications in mathematical & Social Sciences, Multivariate Techniques in Machine Learning, IT/CS Curriculum Development, Network Performance Modeling, Spatio-Temporal Data Mining

11. Membership of Professional Organizations:

- i) Professional Networking Chair (International Webmasters Association, Pakistan Chapter) 1997-98
- ii) American Statistical Association (USA)
- iii) Royal Statistical Society (UK)
- iv) Pakistan Computer Society
- v) IEEE-CS (USA)
- vi) ACM (USA)

12. Membership of Academic Forums:

- i) Member Academic Council, Karachi University
- ii) Member Board of Studies, Sir Syed University of Engineering & Technology, Karachi.
- iii) Member Board of Studies as Expert, Computer Science, Shah Abdul Latif University, Sind.
- iv) Member Board of Studies as Expert, Institute of Information Technology, University of Sindh, Jamshoro.
- v) Member of Experts Committee for National Curriculum Revision Committee (NCRC) on the subject of Computer Science (1998).
- vi) Member Board of Studies, Department of Computer Science, University of Baluchistan.
- vii) Member Examination Committee on Software Development, International Islamic University, Islamabad.
- viii) Member Board of Studies Dept. of Computer Science, Gomal University NWFP
- ix) Member Board of Studies, Dept. of Statistics, University of Karachi.
- x) Elected member Board of Governors by Academic Council, University of Karachi for Institute in Islamabad affiliated with KU.
- xi) Member Board of Governors, Umear Basha Institute of Information Technology, University of Karachi. (Nominated by V.C., KU)
- xii) Member Sind IT Board
- xiii) Chair, CS/IT Curriculum development team for Sind for Sind IT Board

13. Awards

- i) Performance Shield from PAF KIET for helping in establishing the Institute (Sept `00)
- ii) Best Work in IT & Statistics by ISOSS (Islamic Society for Statistical Sciences)

- iii) **NCR IT Excellence Award for IT Educationalist of year 2002(Awarded in January 2003)**

14. Supervised Software Development Teams

- i) Supervised teams from Dept of Computer Science, for SEARC 1994, XIII South East Asia, Regional Computer Conference at Sheraton Hotel, November 27-30, 1994
- ii) Supervised Teams for A.Q. Khan Software Competition from 1995-99. Teams won many prizes.
- iii) 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.

15. Special Assignment by Governor Sind & Chancellor of Universities of Sind:

Acted as co-coordinator for Unified Curriculum for Computer Science/IT for the Universities of Sind. (August 1997-March 1998) *Available on request.*

16. Research Supervision:

- i) PhD on Stochastic Models for Client/Servers (Completed)
- ii) MPhil on Correspondence Analysis
- iii) MS Thesis on Different Networking Paradigms at SSUET.
- iv) BS Thesis in the following domains: Data Mining, AI, ANN, VoIP, Bayesian Networks, Semiotics, Data Warehousing & DSS, Object Oriented Databases, Parallel Virtual Machines.
- v) More than 100 MSc/MCS Software & Modeling Projects related with Operations Research, Statistics, MIS, Computer Graphics, OPP, Software Engineering (1994-2003)
- vi) Currently supervising two 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)
- vii) HEC approved Supervisor of Statistics and Computer Science.

17. Seminars/Lectures

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.

18. Administrative Responsibilities

- i) **Registrar, University of Karachi** (Oct 2001 – Sep 2002)
- ii) Provost, Boys Hostel, University of Karachi (22 Oct, 1994 – 9 February 1999)
- iii) Chairman Department of Computer Science University of Karachi(05 May,1994 to 13 September 2000).
- iv) Project Director of the Project “Development of Department of Computer Science UoK.(2002 to 2005).
- v) Project Director Umaer Basha Institute of Information Technology, (UoK) 2002 to continue).
- vi) Project Director High Speed Fiber Optics Network with Wireless Support at UoK.

19. Resource Person

- i) At National Institute of Public Administration (NIPA) 1990-95 for teaching Operations Research, Statistics and Packages.
- ii) At Cabinet Secretariat (Karachi) 1989, 1990, 1993, 1997 for teaching Operations Research, Simulation & Modeling.
- iii) IT/CS and its importance arranged by Computer Friendship Society (of JAPAN) at AVARI Towers in 1996 for college teachers and principals.
- iv) Internet & its uses with Demo at AVARI Towers in 1997 by Computer Friendship Society.
- v) Hamdard University: Lecture of AI with Application at Hotel Regent Plaza, Karachi (1999).
- vi) FAST, Karachi: “Stochastic Process with Application in Computer Science & Insurance” (1994).
- vii) FAST Lahore: IT/CS Education Discussion Group (1998) on IT education in Pakistan.
- viii) Governor House : CS/IT Curriculum in Universities of Sindh presentation at Governor House and a report was submitted (Report available on request).
- ix) Degree College Malir Cant. : “Teaching Computer Science & Curriculum” at college level. (1999).
- x) I.B.A., Karachi: Invited lecture “Strategies for Developing Curriculum” (1997).
- xi) Bazam Science Karachi: Y2K, Computer & related problems. Dr. Saleem-uz-Zaman Center, Karachi (1999).
- xii) Memorial lecture at Institute of Mathematics and Computer Science, Sindh University.
- xiii) Dr. M.N. Talpur Memorial lecture on “Application on Stochastic Process in Computer Science and Insurance Business”. Institute of Mathematics & Computer Science, Sindh University.
- xiv) Member Selection Board of Computer System, Sir Syed University, Karachi.
- xv) Member Board of Studies & Selection Board on Computer Science, Shah Abdul Latif University, Khairpur.
- xvi) Member Board of Studies, Institute of Information Technology, Sindh University.
- xvii) Govt. Ministry of Education (Curriculum Wing) Member National Evaluation Committee on the subject of Computer Science multiple textbooks and teachers guide (1995).
- xviii) 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).
- xix) 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).
- xx) Member Board of Studies, Department of Computer Science, Baluchistan University, Quetta.
- xxi) Developed BS(Computer Science/IT) Curriculum for a 4 year university program for Sir Syed University of Engineering & Technology.
- xxii) Member Charter Inspection and Evaluation Committee Government of Sindh.
- xxiii) Member Selection Board of many Universities.

20. Research Publications

1980

1. Burney, S.M. Aqil (1986). Teaching of Queuing Theory. Proceedings, First Statistics Seminar, Department of Statistics, University of Karachi. pP 26-36.

1981

2. Burney, S.M. Aqil (1981). Nazaria-i-Ihtimal oor Zini Amaliat (urdu). Theory of Probability and Stochastic Process, Jadid Science 21, No. 2,3 pp.37-44.
3. Burney, S.M. Aqil and Ghulam Hussain (1981). Finite Difference Calculus and Moments of Some Discrete Probability Distributions. Karachi University Journal of Science. 9(1&2) 33-40.

1982

4. Burney, S.M. Aqil (1982). Statistical Methods Used in Bioavailability Studies. Workshop on Bioavailability of Pharmaceuticals, pp. 34-35. Faculty of Pharmacy, University of Karachi. *This work also presented during Second Statistics Seminar (1982). Department of Statistics with some changes under heading "Use Statistical Techniques in Bio-Pharmaceutics"*

1983

5. Burney, S.M. Aqil and J.S. Siddiqui (1983). Production of Marine Fish in Pakistan. Proceedings of National Seminar on Statistical Techniques for Under-Developed Areas, pp 61-63. Pakistan Statistical Association, June 4-6, 1983
6. Burney, S.M. Aqil (1983). Some Measures of Risk. Al Zia Statistical Journal 28-29. Institute of Statistics, University of the Punjab, Lahore, Pakistan.

1988

7. Burney, S.M. Aqil and M.A. Hashmi (1987/88). Stochastic Modeling of Insurance Business. Journal of Social Sciences and Humanities, 1 & 2 pp. 69-70.

1989

8. Burney, S.M. Aqil (1989). Simulation of Systems. Application of Mathematics : First Proceedings of UNESCO Regional Workshop. pp. 19-33. Department of Mathematics, Islamia University Bahawalpur. Ed.

1990

9. Burney, S.M. Aqil (1990). Estimation Methods for MA(q) Model. Riazi, Journal of Karachi Mathematics Association (ISSN 0255-7568) pp. 1-12.
10. Hashmi, M.A., Burney, S.M. Aqil and Hussain, G. (1990). Approximating Accumulated Claim Distribution Using Lagurre Polynomials. Pakistan Journal of Statistics. 6(1) pp. 85-92.
11. Burney, S.M. Aqil, Hussain, G. and E. Ahmed (1990). On the Claim Distribution in Insurance. Karachi University Journal of Science. 18 (1 & 2) pp. 61-70.
12. Ahmed, F., and Burney, S.M. Aqil and S. Hussain (1990). Diffused Solar Radiation Estimates from Sunshine Hours & Clearness Index for Karachi Pakistan Energy. Conservation Management Vol. 30, No. 4, pp. 439-447. Pergamon Press, N.Y.

1991

13. Burney, S.M. Aqil with co-authors (1991). Linear Estimation of the Standard Deviation and their effect on the Analysis of Means, Karachi University Journal of Science, 19(1&2) pp.45-50.
14. Ahmed, F., and Burney, S.M. Aqil (1991). Monthly Average Daily Global Beam and Diffused Solar Radiation and its Correlation with Hours of Bright Sunshine for Karachi, Pakistan. Data Bank, Renewable Energy, Vol. 1, No. 1. 115-118. Pergman Press Great Britain.
15. Khan, M.F. Hayat and Burney, S.M. Aqil (1991). Proximate Determinant of Fertility & Stochastic Model for Analysis of Fertility Data – A Study Proposal. Proceeding of Population and Development Seminar. pp. 239-260. Institute of Population Studies, University of Karachi-Pakistan.
16. Burney, S.M. Aqil (1991). Methods for Approximating Accumulated Claims Distribution, Journal of Islamic Academy of Sciences 3:292-297. Turkey.

1992

17. Burney, S.M. Aqil, S.A. Akhtar and Shagufta Aslam (1992). Probabilistic Approach to Life Tables of Pakistan, Karachi University Journal of Science. Vol. 20, pp. 91-100, University of Karachi, Pakistan.
18. Burney, S.M. Aqil (1992). Computing Exact Likelihood Function of Vector MA(1) Model. Pakistan Journal of Statistics Vol. 8(1), 51-59, Lahore Pakistan. (Developing algorithm, analysis and comparison with implementation).
19. Ghulam Hussain and Burney, S.M. Aqil (1992). Kolmogrov-Simernov Type Test for Pareto Distribution when Parameters are unknown. Proceeding of Third Islamic Countries Conference on Statistical Sciences at Rabat Morocco (August 25-29, 1992) Vol. V, pp. 255-260. Editor Dr. Munir Ahmed, ICCS, Awami Complex, Usman Block, New Garden Town, Lahore, Pakistan. (Computer Simulation & Modeling on VAX 2000 machine).
20. Burney, S.M. Aqil., (1992).Comparative Study of Estimation Methods of the Parameters of VM; Simulation and Construction of Monte-Carlo Confidence Intervals. Journal of Islamic Academy of Sciences Volume 5,No.3, Turkey.

1993

21. Burney, S.M. Aqil., M.A.Hashmi and A.J.Siddiqui (1993). Claim Number Process in Insurance Business. Journal of Social Science and Humanities, Vol. 1 & 2, pp.12-22, Karachi University.
22. Burney, S.M. Aqil (1993). Applications of Stochastic Process in Computer Science and Risk Theory & Insurance. Invited Lectures through UGC (pp. 1-30) Institute of Mathematics & Computer Science, Sindh University.

1994

23. Ghulam Hussain and Burney, S.M. Aqil (1994). Kolmogrov-Smirnov Type Test statistics for the Gompertz Distribution when Parameters are unknown. (2nd) Proceeding ICSS-IV, Lahore, Pakistan. August 27-31, Vol.8. pp. 439-446. (Simulation & Modeling)
24. Ghulam Hussain and Burney, S.M.Aqil (1994). Kolmogrov-Smirnov Type Test for the Gompertz Distribution when Parameters are unknown (first). Proceeding Fifth Statistics

Seminar-1994. Pp. 163-169. Department of Statistics, University of Karachi. (Simulation & Modeling).

25. S.E. Ahmed, S.M. Khan and Burney, S.M. Aqil (1994). Estimating Function of a Parameter. Industrial Mathematics, The Journal of the Industrial Mathematics Society, USA, Vol. 44. Part.
26. M.A. Hashmi and Burney, S.M. Aqil (1994). Reinsurance Treaties : A statistical Approach Proceedings Fifth Statistics Seminar, Department of Statistics, University of Karachi, pp. 123-134.
27. Noor Ahmed Shaikh and Burney, S.M. Aqil (1994). Empirical Queuing Model: A study of Countess Dufferein Hospital Record of Maternity Patients. Journal of Social Sciences, University of Sindh, Jamshoro.
28. Burney, S.M. Aqil (1994). Computer Science at School Level. Report on : Computer Education Curriculum Development Workshop. Section 2.3. Orangi Pilot Project. 18th, 19th, Sept., 1994.
29. Burney, S.M. Aqil., Noor A. Shaikh and Asif Ali G. Kazi (1994). A Optimal Profit Policy for the M/M/m Machine Interference Model. Journal of Science Res. Vol. XXIII, No. 1 & 2, pp. 125-142. (University of Punjab). (O.R. Simulation & Modeling)

1995

30. Asim Jamal Siddiqui, Burney, S.M. Aqil and M. Naseem Iqbal (1995). Precision of Unequal Probability Sampling in Finite Population. Karachi University Journal of Science, Vol. 23 (1&2) pp. 47-54.
31. Noor A. Shaikh, Burney, S.M. Aqil and Asif Ali G.Kazi (1995). Review of Literature on Machine Repair Problem (MRP) Sindh University Research Journal (Sci.Sr.) Vol. 27(2) pp. 109-121.
32. Burney, S.M. Aqil and Sohail Burkati (1995). Benthic Dynamics of a Rocky Beach Macroinvertebrates – I. Diversity Indices and Biomass Assessment of Buleji, Karachi (Arabian Sea). Marine Research, 4(1) : 53-61.
33. Barkati, S. And Burney, S.M. Aqil (1995). Benthic Dynamics of Rocky Beach Marcoinvertebrates-II. Cyclical Changes in biomass at various tidal heights at Buleji, Karachi (Arabian Sea) marine Reasearch, 4(1) : 63-76.
34. Burney, S.M. Aqil (1995). Measures of Central Tendency in News-MCB Stock Exchange Price Index. Pp. 12-31. Developed by Vital Information Services (Pvt) Limited, Karachi.
35. Shaikh, Noor Ahmed, S.M. Aqil Burney and Asif Ali G. Kazi (1995). Review of Literature on Machine Repair Problem (MRP). Sindh University Research Journal (Sci.Sr.) Vol. 27 (2), pp. 109-121.

1996

36. Ghulam Hussain, Burney, S.M. Aqil and Asim Jamal (1996). Moments of Polya-Eggerberger Distribution using Finite Difference Calculus, Karachi University Journal of Science, Vol. 24(2) pp.81-84.

37. Burney, S.M Aqil (1996). Information Masters. (In Fortnightly Feature: Careerwise on 'Information Technology). Dawn Saturday, August 10, 1996.
38. Burney, S.M.Aqil (1996). Online Newspapers. Monthly Magazine 'Computech' July 1996, pp.17. Internet e-mail It@abc.khi.sdnpk.undp.org.
39. Burney, S.M Aqil (1996). Viruses in 32 bit Environments! Computech. September 1996. Pp.20.It@abc.khi.sdnpk.undp.org.
40. Burney, S.M. Aqil (1996). To Bridge or Not to Bridge (Networking) Computech. October 1996. Pp. 20. It@abc.khi.sdnpk.undp.org.
41. Burney, S.M. Aqil (1996). Know all Thy Protocols (Networking) Computech. November, 1996. Pp. 20 It@abc.khi.sdnpk.undp.org.
42. Burney, S.M. Aqil (1996). When the CPU Speed Fools (Benchmark) Computech. December, 1996. Pp.20. It@abc.khi.sdnpk.undp.org.
43. Burney, S.M. Aqil (1996). Temporal Software Assessment Techniques. Computer Application/Programming Section. Proceedings Vol.2 : The Fifty Islamic Countries Conference on Statistical Science (pp. CP6). Faculty of Mathematics and Natural Sciences, University of Brawijava, Malang, Indonesia. (August 24-31, 1996).
44. Burney, S.M. Aqil (1996). Department of Computer Science, University of Karachi : Recent Developments. Higher Education News. Vol. XVI. No.8-9, pp.2, Aug-Sep. 1996, UGC, Islamabad.
44. Book : Burney, S.M. Aqil and M.A. Hashmi (1993) Risk Theory and Insurance : A Stochastic Approach. Monograph, University of Karachi.
45. Sohail Barkati and Burney, S.M Aqil (1991). Biomass and Species Composition of Littoral Rocky Shore of the Karachi Coast. Sponsored by National Scientific Research and Development Board, Govt. of Pakistan, Islamabad (Through UGC)
46. Burney, S.M Aqil. , Ejaz Ahmed and Asim Jamal (1991). A Study on the Production, Consumption and Future Forecast. A project sponsor by Faculty of Science, University of Karachi.
47. Burney, S.M Aqil and M.A. Hashmi (1993). Claim Number Process in Insurance Business. Journal of Social Sciences and Humanities. Vol .1&2 pp. 12-22, Karachi University.
48. **Book :** Published by ICMA (Research Department) on Cost and Management & Accounting Techniques. Employed in the Cotton Textile (Ring) Spinning Industry of Pakistan. Author of Chapter Two "The Survey" as team member of the group. (MIS report)

1997

49. Barry, M.A., Burney, S.M Aqil and Bhatti, M.I. (1997). Optimum Influence of Initial Observations on Regression Models with AR(2) Errors. Applied Mathematics and Computation. Vol. 82, No. 1 pp. 57-65. North-Holland, U.K.
(This work was partially supported by the Faculty of Science, University of Karachi).

50. Burney, S.M Aqil (1997). How to buy All-in-one Modems? Computech January, 1997, pp. 13-14. Internet e-mail it@abc.khi.sdnpk.undp.org.
51. Burney, S.M Aqil (1997). Your Guide to the ISDN Technology (ISDN). Computech March, 1997. Pp. 15-16. Internet e-mail it@abc.khi.sdnpk.undp.org.
52. Burney, S.M Aqil (1998). Software Quality : Metrics and Models. 23rd International Nathiagali Summer College on Physics and Contemporary Needs. 02 June – 04 July, 1998, Nathiagali (Poster session).

1998

53. Burney, S.M Aqil (1998). Exploring Computer Science and Information Technology. DAWN, Sept. 29, 1998.
54. Burney, S.M Aqil., M. Altaf Mukati and N. Bari Qureshi (1998). Workshop on Microprocessor Experiments. pp. 1-60. Department of Computer Science, University of Karachi.

1999

55. Burney, S.M Aqil (1999). Artificial Neural Networks and Predictive Data Mining. (to be published).
56. Burney, S.M Aqil (1999). An Overview of Software Projects of KU-DCS. (Report to be published).
57. Burney, S.M Aqil (1999). Stochastic search in artificial intelligence. Presented at ISSOS 6th Conference at Lahore, Punjab University. To be published in the proceeding. (Abstract No. 112, pp.63)
58. Burney, S.M Aqil (1999). Noor-ul-Hassan and Ghulam Hussain (1999). Computer Simulated Probability Distribution of Electricity Demand Forecast for Pakistan. Accepted for publication in Pakistan Business Review (January, 2000).
59. Burney, S.M Aqil (1999) and A. Mukati (1999). Route-Optimization Through Optimum Spanning Tree Method. ISSOS, 6th Conference. (Abstract 129). To be published with Algorithms for Travelers Salesman Problem Revisited (Abstract 114 ISSOS Lahore 1999).
60. Burney, S.M Aqil (1999) using (1999). Data Compression using Statistical Structure. (Abstract 130, ISSOS, 1999), to be published.
61. Burney, S.M Aqil, Amir Ahmed Khan and Umair Ahmed (1999). Y2K : The Coming Computer Crises : An Overview with February 30, 2000 Problem. Department of Computer Science, University of Karachi 2000 (Published).

2000

62. Burney, S.M Aqil, Badar Sami, Altaf M., and Nasir Ali (2000). Future of IT : Parallel Virtual Machines. The First International Workshop on Distributed Computing, Communication and Applications. May 8-10, 2000 IWDCCA 2000. International Islamic University, Islamabad, DCS and (collaboration with Tokyo Institute of Technology, Japan & IEEE).
63. Burney, S.M Aqil (2000). Binary Search and Cache Memory. KUTS (to be published).

64. Burney, S.M Aqil (2000). Proceedings of Workshop on Distributed Computing, Communication and Applications. Publication chair. May 8-10, 2000 IWDCCA 2000. International Islamic University, Islamabad, DCS and (collaboration with Tokyo Institute of Technology, Japan & IEEE).
65. Burney, S.M. Aqil (2000). Intelligent Knowledge Management on Internet. Presented at Mathematical Conference at the Institute of Mathematics and Computer Science, University of Sind Jamshoro Sind (Nov.20-22, 2000)(To be Published)

2001

66. Burney, S.M. Aqil ; Jilani, Tehseen Ahmed(2001). Artificial Neural Networks Methods of Forecasting for Karachi Stock Exchange, Dept. of Computer Science & Dept. of Statistics, University of Karachi.(Project Report Available on request)

2002

67. Burney, S.M. Aqil; Naseem, M. A Comparative Study of Real Time Audio Compression Techniques based on Fourier & Wavelet Transformation. IEEE-CS Karachi Chapter Conference, 22 Dec, 2002
68. Burney, S.M. Aqil; Khurram M. Perceptual Analysis Measurement System for End-to-End Network Speech Quality”. Karachi Journal of Science, University of Karachi, Vol. 31, no. 1, July-2003. ISSN: 0250-5363.
Accepted for Publication at International Islamic Countries Conference on Statistical Sciences, Bahrain, March 2004, IEEE KIIT Technology.
69. Burney, S.M. Aqil; Burney, Fahad; Manzoor, Adnan. Statistics and Data Mining: Similarities and differences. Accepted for Publication at International Islamic Countries Conference on Statistical Sciences, Bahrain, March 2004

2003

70. S.M. Aqil Burney; M.Sadiq Ali Khan; M.Khurram. Multislot Cell Scheduling Algorithm in ATM Switching Networks. Accepted and Published at IWTIT 2003 Organized by Dept. of Computer Science, International Islamic University, Islamabad.
71. S.M.Aqil Burney; Adnan Manzoor; Fahad Burney. Similarities and Differences in Statistics and Data Mining. Accepted for Publication at International Workshop on Frontiers of Information Technology Islamabad Pakistan organized by COMSATS Institute of Information Technology.itworkshop@comsats.edu.pk
72. S.M.Aqil Burney; Tahseen A. Jilani Supervised Artificial Neural Network for Karachi Stock Exchange Share Rates Forecasting” Accepted at Artificial Intelligence and Neural Network Conference .Department of Computer Engineering Canakkle University ,TurkeyJuly2-4,2003 TAINN-2003.
73. S.M.Aqil Burney(2003) Introduction to Stochastic Processes and their Applications in Insurance and Computer Science. Dr.M.N.M. Talpur Memorial Lecture. Published by Institute of Mathematics and Computer Science University of Sindh, Jamshoro.

2004

74. S.M.Aqil Burney; Asadullah Malik. QOS Management for Mobile Internet Services by Optimization of System Efficiency , Capacity , Production Ratio and Handoff Rate.

75. S.M.Aqil Burney, Tahseen A. Jilani & Cemal Ardil(2004)Levenberg-Marquardt Algorithm for Karachi Stock Exchange Share Rate Forecasting .Journal of Computational Intelligence. Canakkale University, Turkey.
76. Aqil Burney, S.M et al, (2004), Levenberg – Marquardt Algorithm for Karachi Stock Exchange Share Rates Forecasting. Published in International Journal of Computational Intelligence (IJCI). . vol. 1. no. 2, 2004. ISSN (p): 1304-4508, ISSN (e): 1304-2386, pp. 168-173.
Published in proc. of International conference on Computational Intelligence, 11-13 Feb. Dept. of Computer Engineering Canakkale Onsekiz Mart University.
77. Aqil Burney, S.M. et al, (2004), Multi Slot Cell Scheduling Algorithm in ATM Networks. International Networking and Communication Conference (INCC 2004) IEEE, 11-13th June Lahore, Organizes by LUMS. Pp.89-94.
78. Aqil Burney, S.M. et al, (2004), Cellular Multimedia Networks Management by Optimizing Efficiency, QoS Level and Capacity. International Networking and Communication Conference (INCC 2004) IEEE, 11-13th June Lahore, Organizes by LUMS. Pp.99-104.
79. Aqil Burney, S.M. et al, (2004), Multi Slot Cell Scheduling Algorithm in ATM Networks.- Proceeding, Second National Workshop In Information Technology (NWTIT) 2003, Nov 15-16th 2003. Pp.72-77.
80. Aqil Burney, S.M. et al, (2004), A comparison of First and Second Order Learning algorithms in Artificial Neural Networks, International Journal of computational intelligence (IJCI): vol. 1. no. 3, 2004, pp. 218-224. ISSN (p): 1304-4508, ISSN (e): 1304-2386.
Published in proc. of International Conference on Computational Intelligence (ICCI-2004), December, 17-19. Istanbul, Turkey. ISBN: 975-98458-1-4.
81. Aqil Burney, S.M. et al, (2005), Time Series Forecasting with SARIMA model: A case study using the natural gas demand series, in proc. International conference on Software Engineering and Applications ICSEA-2004, December 30-31, 2004, Islamabad, Pakistan.

2005

82. Aqil Burney, S.M. et al, (2005), A Brief History of Logic: Application of Logic in Computer Science and Information Technology, in proc. of the National Conference on Information Technology and Applications (NCITA) April 21-22,2005, Balochistan University of Information Technology and Management Sciences, Quetta, Pakistan.
83. Aqil Burney, S.M. et al,(2005), Approximate Bounded Knowledge Extraction using Type-I Fuzzy Logic, in proc. of the 5th World Enformatika Conference, WEC'05, August 26-28, 2005 in Prague, Czech Republic. ISBN: 975-98458-6-5. ISSN (e): 1305-5313.
84. Aqil Burney, S.M. et al,(2005), Approximate Bounded Knowledge Extraction using Type-I Fuzzy Logic, in proc. of the 5th World Enformatika Conference, WEC'05, August 26-28, 2005 in Prague, Czech Republic. ISBN: 975-98458-6-5. ISSN (e): 1305-5313.

2006

85. Aqil Burney, S.M. et al,(2006), Approximate Knowledge Extraction Using Multi-resolution Analysis for Type-I Fuzzy Neural Networks, published in ICEAS-2006, Islamabad, Pakistan. PP. 464-469. accessible through **IEEE-Xplore, USA.**
86. Aqil Burney, S.M. et al, (2006), Wavelet Based SARIMA Models for Forecasting Neural Gas Demand. Business Review Vol.I, No.1, ISSN 1990-6587, IBA, Karachi-Pakistan. PP 134-139

Conference Invitations:

Invitation of invited paper in WSEAS international conference in University De Alcalá in Madrid, Spain, February 15-17,2006. Conference title is “5th WSEAS Int. Conf. on ARTIFICIAL INTELLIGENCE, KNOWLEDGE ENGINEERING AND DATA BASES (www.worldses.org/conferences/2006/spain/aiked).

2007

87. Aqil Burney S. M., Jilani T. A. and Ardil C. (2007a), “Multivariate High Order Fuzzy Time Series Forecasting for Car Road Accidents”, International Journal of Computational Intelligence, 4(1), pp 15-20, ISSN 1304-2386.
88. Aqil Burney S. M. and Jilani T. A. (2007b), New Method of Learning and Knowledge Management in Type-I Fuzzy Neural Networks, In IEEE-IFSA 2007, World Congress, Cancun, Mexico, June 18-21, Forthcoming in Book series Advances in Soft Computing, Springer-Verlag.
89. Aqil Burney S. M. and Jilani T. A. (2007c), M-Factor High Order Fuzzy Time Series Forecasting for Road Accident Data, In IEEE-IFSA 2007, World Congress, Cancun, Mexico, June 18-21, Forthcoming in Book series Advances in Soft Computing, Springer-Verlag.

21. References

Professor Dr. Pirzada Qasim
Vice Chancellor,
University of Karachi
vc@uok.edu.pk

Professor Dr. B. D. Ripley
Department of Statistics,
University of Oxford
ripley@stats.ox.ac.uk

Professor Dr. Abdul Qadeer Rajput
Vice Chancellor,
Mehran Engineering University
Jamshoro, Sind

Professor Dr. Khalid Siddiqui
Department of Computer Science,
State University of New York, Fredonia
siddiqui@cs.fredonia.edu

Professor Dr. Munir Ahmad
Dean Faculty of Mathematical Sciences
The University of Lahore
1-k.m. Raiwind Road
Lahore, Pakistan
drmunir@brain.net.pk