

SUMMARY CURRICULUM VITAE

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EDUCATION AND QUALIFICATIONS

1970 PhD (Electronics), University of Southampton
1967 MSc (Electronics), University of Southampton
1965 BEng (Hons) Electrical Engineering, Engineering University, Dhaka, [Bangladesh]

CAREER

2009- Research Professor, Department of Electronic & Electrical Engineering, Strathclyde
2007-2009 Senior Advisor to Principal –on International links with government, industry, academic institutions
2000-2006 Deputy Principal (Pro Vice-Chancellor), University of Strathclyde, responsible for staff development, lifelong learning, entrepreneurship, IT policy and strategy, liaison with national and international economic development agencies
1991-1994 Special Adviser (IT) to the Principal, University of Strathclyde
1986-1990 Chairman, Department of Electronic and Electrical Engineering, University of Strathclyde (one of the largest on the subject in the UK and in Strathclyde)
1982- Professor of Signal Processing, University of Strathclyde
1979-1982 Senior Lecturer (Electronic and Electrical Engineering), University of Strathclyde
1976-1979 Lecturer (Electronic and Electrical Engineering), University of Strathclyde
1970-1976 Research Fellow (Electronics), University of Southampton

AWARDS AND RECOGNITION

2003 OBE - for services to electronics research and higher education
2000 IEEE Millennium Medal for contributions to Signal Processing
2000 IEEE Meritorious Service Award
1999 Asian Man of the Year - GG2 Leadership and Diversity Award
1998 Associate Fellow Third World Academy of Sciences
1996 Fellow, Royal Academy of Engineering
1994 Fellow, Royal Society of Edinburgh
1989 Fellow, US Institute of Electrical and Electronics Engineers
1982 Fellow, UK Institution of Electrical Engineers (now IET)
1974 M Barry Carlton Award - for most outstanding papers published in Trans IEEE Aerospace and Electronic Systems in 1973-4.

RESEARCH RECORD

Areas of research include Signal and Image Processing, and Technology Management. Author/co-author of and six books and over **350** papers in refereed journals, international and national conferences and colloquia. Since joining Strathclyde in 1976, awarded over **sixty** research contracts sponsored by the EPSRC, EU Programmes - ESPRIT, BRITE-EURAM, RACE, US Office of Innovative Science and Technology, and numerous industrial organisations

Established the current Research Group on Signal Processing at Strathclyde, which is one of the largest on the subject area in Europe, comprising forty academic, research staff and students. Supervised some **forty** PhDs. EXTERNAL EXAMINER for 30 PhDs throughout the UK, France, Hong Kong, and Australia.

INVITED LECTURER for over fifty events throughout the UK, Europe, US, SE Asia in the last ten years.

ADVISOR

1982- Reviewer/Assessor for Professorial promotion panels and appointment boards of several UK, US and other overseas universities, including University of Stanford, Southern California, MIT, Tufts, Washington, etc.
2002- Reviewer for research performance of electrical electronic & computer science departments, for the Governments of the Netherlands and Portugal.
2002-2006 Advisory Board, Centre for Multimedia Signal Processing, The Hong Kong Polytechnic University.
1996-1999 International Advisory Board, Etisalat College of Technology, Sharjah, for development of higher education in telecommunications in the UAE.

EXTERNAL EXAMINER

- 1997-2000 BSc and BEng, The Chinese University of Hong Kong.
1992-1995 MSc Electronics and Information Technology, University of Birmingham.
1987-1990 MSc Communications, Imperial College, London.
1972-onwards PhD Examiner for Universities in UK, Australia, France, Singapore and Hong Kong, etc.

ACADEMIC AND ACADEMIC MANAGEMENT RESPONSIBILITIES : INTERNAL

DEPUTY PRINCIPAL (PRO-VICE CHANCELLOR)

- 2000-2006 Deputy Principal, University of Strathclyde
Responsible for staff development, lifelong learning, entrepreneurship, IT policy and strategy, liaison with national and international economic development agencies.
1991-1994 Special Adviser to the Principal
Responsible for university-wide planning and investment in information technology, and for the development of the Institutional Plan element of IT.

HEAD

- 1982-2006 Signal Processing Division, comprising over forty academic and research staff

CHAIRMAN

- 1986-1990 Department of Electronic and Electrical Engineering, Strathclyde, one of the largest in UK.
1990-1994 University of Strathclyde Information Technology (IT) Policy Committee for development of IT policy and resource management in Information Technology
1996- University Steering Group for 'Investors in People' accreditation
1986- Management Committee, IT Associate Companies Scheme (ITACS) - comprising ten IT companies and Strathclyde - winner of DTI Industry Year Award (1986) for university-industry collaboration on training.

MEMBER

- 1986-2006 Strathclyde University Court, Senate, and Faculty Committees, including Staff Committee, Ceremonials and Honorary Degrees Committee, and others

ACADEMIC AND PROFESSIONAL MANAGEMENT RESPONSIBILITIES : EXTERNAL

MEMBER

- 2006- 2009 Scottish Funding Council for Higher & Further Education –responsible for all funding, assessment of, quality, research performance of all Scottish universities and colleges

CHAIR

- 2008 – China-Scotland Research Academy on Signal Image Processing (SIPRA) – comprising seven high profile Chinese and four UK Universities for collaborative research and staff/student exchanges (www.china-scotland-sipra.org)

PRESIDENT

- 2006-2007 Institute of Electrical & Electronics Engineers (IEEE) Engineering Management Society.
1994-1995 IEEE Signal Processing Society - with responsibility for developing technical directions, world-wide. The Society is one of the largest and fastest growing constituents of the IEEE.

CHAIRMAN

- 1996-1997 IEEE Periodicals Council with oversight responsibility for quality, timeliness and publication of 106 Transactions, Journals, Magazines and Newsletters, and Chair IEEE Panel of Editors.
IEEE produces over 31% of the world's archival literature on electro-technology. and according to the International Citation Index publishes the most prestigious journals in the field. Current directions include electronic publications, web-based journals.

DIRECTORSHIPS

- 2011- *UK National Commission for UNESCO for Applied Science, Engineering & Technology.*
2009-2011 *IEEE Communications Society- Regional Director (Europe Middle East & Africa)*
2004-2009 *UK Leadership Foundation of Higher Education-for the development of leadership talent in UK universities, and mentoring of senior-most academic and management staff.*
2010-2012 *Equality Challenge Unit –set up to promote and monitor Equal Opportunities in UK universities*
2003-2013 *Glasgow Chamber of Commerce - for commercialisation and entrepreneurship advice.*
2001-2009 *Institute for System Level Integration - set up jointly by the universities of Edinburgh, Glasgow, Heriot-Watt and Strathclyde to provide postgraduate courses and training on Systems-on-Chip technology. Institute offers the world's first MSc on Systems Level Integration.*
2001-2005 *Scottish Institute for Enterprise - established with support from the Office of Science and Technology to promote entrepreneurship education and spin-outs from Scottish universities, with Strathclyde, Glasgow, Heriot Watt, Dundee and Edinburgh, as partners.*
2004-2008 *Founding Director Kelvin Institute, set up jointly with the University of Glasgow for technology/knowledge transfer in IT to industry.*

UNIVERSITY REPRESENTATIVE

- 1991-1994 *Parliamentary and Scientific Committee, Houses of Parliament, Westminster*
2000-2009 *Associate Parliamentary Engineering Group, Westminster*

LEARNED SOCIETY ACTIVITIES

Royal Society of Edinburgh

- 2012-2014 *VICE PRESIDENT (International)*
2007-2010 *VICE PRESIDENT for Natural Sciences*
2004-2006 *COUNCIL MEMBER, Royal Society of Edinburgh that has oversight responsibility for all aspects*
2006-2011 *Vice Convenor, Member (since 2004), International Committee, Royal Society of Edinburgh.*
1999-2002 *Member, Meetings Committee, Royal Society of Edinburgh*
2006-2009 *Member RSE/IEEE Wolfson James Clerk Maxwell Medal Committee- unique prestigious joint Medal- played key role in establishing Medal.*

IEEE [Institute of Electrical and Electronics Engineers] The IEEE, headquartered in New York, is the world's largest organisation of professional scientists and engineers, with over 400,000 members in 170 countries, and the Technical Activities, Publications and Education Activities Boards are the main Boards of the IEEE.

2009-2011 IEEE Vice President for Educational Activities

- 2006-2007 *President IEEE Engineering Management Society – major organisation for professional managers.*
2006-2009 *Member IEEE Medal of Honour Committee, and Maxwell Medal Committee.*
2003-2005 *Chair - Awards and Recognition Committee - IEEE Education Activities Board.*
2003-2005 *Vice Chair, Technical Activities IEEE Region 8 (Europe, Middle East and Africa).*
2000-2002 *Chair, IEEE Region 8 Conference Coordination Committee.*
2000-2007 *Member Board of Governors, IEEE Engineering Management Society.*
1999-2003 *Member, IEEE Publications Services and Products Board.*
1996-1997 *Chairman, Periodicals Council.*
1996-1999 *Chairman, Committee on Opportunities for Technology Assessment.*
1994-1995 *President, Signal Processing Society.*
1994-1997 *Member, Edison Medal Awards Committee and J Kilby Medal Committee.*
1992-1996 *Member, Neural Networks and Spectral Estimation Technical Committees.*
1984-1994 *Member, Editorial Board, The ASSP Magazine.*
1979-1985 *Associate Editor, Transactions on Acoustics, Speech and Signal Processing.*

IEEE [UK Institution of Electrical Engineers]

- 1987-1990 *Founder Chairman, Professional Group E5 on Signal Processing.*
1984-1987 *Chairman, Professional Group E4 on Image Processing.*
1981-1984 *Member, Professional Group E4 on Image Processing.*

EDITORIAL BOARD MEMBERSHIP

- 2001-2006 *IEEE Spectrum*
1987- *J Signal Processing EURASIP*
J Adaptive Control and Signal Processing
J Image Processing Systems and Technology
1983-1987 *IEEE Signal Processing Letters*
1974-1985 *IEEE Trans Signal Processing*

GUEST EDITOR

- 1998 International J Technology Management, Special Issue on 'Emerging Trends in Technology Strategy Development'
1983 Proc IEE Special Issue on Spectral Estimation
1983 J Microprocessor Systems Special Issue on Signal Processing Devices

GENERAL CHAIRMAN OF MAJOR INTERNATIONAL CONFERENCES

- 2009 Triple Helix VII International Conference on Government-University-Industry Interactions, Glasgow 17-19 June.
2007 IEEE International Conference on Communications (ICC), Glasgow, 24-28 June 2007, 1400 attendees.
2002 IEEE International Engineering Management Conference (IEMC), Cambridge, 18-20 August 2002, with presentations by some 200 leading experts.
1991 SERC/DTI International Conference on Applications of Transputers, Glasgow, 28-30 August 1991 - 350 delegates, 140 papers.
1989 IEEE International Conference on Acoustics, Speech and Signal Processing, Glasgow 23-26 May 1989, which attracted 1700 delegates from 52 countries, and 720 papers, considered to be one of the largest and most prestigious technical conferences on electronics held in Scotland.
1986 Institute of Mathematics and Its Applications (IMA) First International Conference on Mathematics in Signal Processing, Bath, 17-19 September 1986, 85 papers. Now a biennial event.

2010 -2014 CHAIR Future meetings Committee, Triple Helix Association.

MEMBER Technical Organising Committees of numerous International Conferences since 1984.

MISCELLANEOUS

2011-2015 Appointed Great Master of III Project, UESTC, Chengdu, China to advise on research and teaching on Signal Processing.

MEMBER

- 2008-2010 Science Framework Development Group, Innovation Framework Group, Scottish Government.
2008- 2011 UNESCO UK National Commission - Natural Sciences Committee; UNESCO Chairs Committee
2007-2013 International Review Committee for Government of Portugal to assess Carnegie Mellon University-Portuguese Govt on enhancing research performance in electronic engineering.
2002-2004 Scottish Science Advisory Committee - to advise Scottish Executive, and provide direction on science and technology strategy for R&D and Education in Scotland.
2000-2005 Board of Councillors, USC NSF Center of Excellence in Immersive Multimedia Systems, University of Southern California, Los Angeles - only non US member.
1997-1999 EPSRC College of Peers on Information Technology - Communications.
1999-2000 and 2005 International Research Review Boards for the Governments of (a) the Netherlands (VSNU), and (b) Portugal (Ministry of Education and Industry), to assess research performance in electronic, electrical engineering and information technology in all national universities equivalent of the Research Assessment Exercise.
1993-1995 Council of Scottish Electronics Forum (SEF) - set up jointly with Scottish Enterprise and several key electronics companies, and Chairman of Technology Adoption Group.
1995-2000 Advisory Committee of the European Association for Signal and Image Processing (EURASIP), Lausanne, Switzerland.
1987-1990 Working Parties set up by Scottish Enterprise, Scottish Electronics Forum, SERC, IEE