

IEEE Distinguished Lecture Talk

You are cordially invited to a distinguished lecture on:

Influencing change and promoting solutions- old verities and new paradigms – history, trends and challenges in Signal Processing

Speaker: Dr Tariq S Durrani

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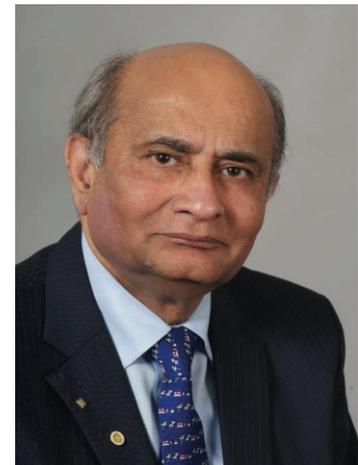
www.tariqdurrani.org

Date: 8 December 2014

Time: 0200pm

Venue: Conference Room C, Level 4, E0

RSVP: Sheroz (0193515830); Khaleel Ahmed (0136740850)



Summary: In this presentation Professor Durrani will give a personalised view of keynote developments in Signal Processing over the past forty years, and chart current directions and future opportunities for research and development in Signal Processing.

Starting from the early years of the development of signal analysis concepts, the presentation will trace the history of milestones and landmarks both in the time domain and frequency domain; identify the trends and movements from established certainties (verities), towards new directions; establish the centrality of signal processing as the glue that binds different disciplines and fields; categorise the motivation and drivers for change that are leading to new developments in the area, ranging from government initiatives to demands in the Defence sector, touching on the needs of the European community.

The latter half of the presentation will identify emerging field of copula signal processing, and aspects of natural gradient techniques for optimisation.

Biography Sketch: Tariq Durrani has been University Deputy Principal (2000-2006) with major responsibility for University-wide strategic developments in Computing and Information Technology Infra- structure, Entrepreneurship, Staff Development and Lifelong Learning. He joined Strathclyde as a Lecturer in 1976, was made Professor in 1982; Department Head (1990-1994) of one of the largest UK EEE Departments. He was Chair, Institute for Communications and Signal Processing (2006-2007), and Head, Centre of excellence in Signal and Image Processing (2008-2009). Currently he is Research Professor in Electronic and Electrical Engineering at Strathclyde.

He has been Vice President (Natural Sciences 2007-2010), and is Vice President (International 2012-onwards) of the Royal Society of Edinburgh - the national academy of Scotland; Council (Board)

Member, Scottish Funding Council - which distributes \$3.0 billion equivalent funding annually to universities and colleges. He was Director of the UK Government DTI Centre for Parallel Signal Processing (1989-1991), and the UK Research Council/DTI Scottish Transputer Centre (1991-1995) at Strathclyde.

He is a Director of the United Kingdom (UK) National Commission for UNESCO, and has been a Director of the UK Leadership Foundation for Higher Education, UK Equality Challenge Unit and the Glasgow Chamber of Commerce.

His research interests include Communications, Signal Processing, Technology and Higher Education Management. He has authored over 350 publications and six books. He has supervised over forty PhD theses.

He has been a consultant to Governments in the UK, US, Portugal, The Netherlands, European Commission, and several companies. He has managed over sixty projects in last twenty-five years.

Prof Durrani is known to many around the world for working tirelessly to bring a future for the IEEE that represents growth and success, professional and technological leadership through continued and effective globalization. He has been President of the IEEE Signal Processing Society, and of the IEEE Engineering Management Society. He has been IEEE Director and Vice President for the IEEE Educational Activities Board.

He has held visiting appointments at: Princeton, University of Southern California, Stirling University (UK), Chinese University of Hong Kong, Khalifa University, Sharjah (United Arab Emirates), and the University of Electronic Science and Technology of China - UESTC Chengdu (China). In 2008 he established the China Scotland Signal & Image Processing Research Academy for research collaboration, staff-student exchanges, joint projects, publications and workshops between nine leading Chinese universities and five Scottish universities.

Professor Durrani is a Fellow of the Royal Society of Edinburgh, the Royal Academy of Engineering, the IEEE and the IET.

In 2003 Queen Elizabeth II bestowed the title OBE on him for “services to higher education and electronics research”.