

Professor Peter Fleming, FEng

Editor-in-Chief of *International Journal of Systems Science*

With a wide range of interests in the field of control and systems engineering Professor Fleming ensures the continuing success of *International Journal of Systems Science (IJSS)*.

Professor Fleming has been editor of *International Journal of Systems Science* since 2000. The primary aim of *IJSS* is to become world leader in the exciting and demanding field of intelligent systems engineering and its applications. It appeals to a wide audience and is aimed at advanced research workers, and development engineers, intelligent and manufacturing engineers in industry and universities who have an interest in the application of modelling, simulation, optimization and control to specific systems. Now celebrating its 40th birthday the journal maintains its unique position within the field of automatic control and systems and with his key role and position within the academic field Professor Fleming continues its success and development.

Peter Fleming has held the Chair of Industrial Systems and Control in the [Department of Automatic Control and Systems Engineering](#) at the University of Sheffield since 1991. His control and systems engineering research interests include control system design, health monitoring, multi-criteria decision-making and grid computing. He has over 350 research publications, including six books, and his research interests have led to the development of close links with a variety of industries in sectors such as aerospace, power generation, food processing, pharmaceuticals and manufacturing.

He is Director of the [Rolls-Royce University Technology Centre \(UTC\)](#) for Control and Systems Engineering at the University of Sheffield. Selected as a centre of excellence in control and systems engineering, the UTC carries out both short-term and long-term research with the aim of supporting Rolls-Royce's business aims through improving the product, improving productivity and reducing cost-of-ownership. Applications include gas turbine engines for civil and military fixed and rotary wing aircraft, Advanced Short Take-Off and Vertical Landing (ASTOVL) aircraft, industrial turbo-generator systems and marine systems. The UTC was established in 1993 and, with leverage, the Centre has a complement of over 20 researchers, including three directly-funded Research Fellows.

From 2003 – 2008, he was Pro-Vice-Chancellor for External Affairs at the University. In that role he was committed to building relationships that ensure that the extensive knowledge base of the University is exploited to the benefit of the wider community, across business, commerce and public sector activities locally, nationally and internationally.

He has acted as Chairman of a variety of international meetings (e.g. IFAC International Conference on Intelligent Control Systems and Signal Processing, IFAC Workshops on Algorithms and Architectures for Real-Time Control, IEE/IEEE Conferences on Genetic Algorithms for Engineering Systems: Innovations and Applications) and is particularly active in the International Federation of Automatic Control (IFAC). In 1996, he became Chair of IFAC Publications Committee, a member of Council in 1999 and Executive Board Chair in 2002. He was Vice-President of IFAC from 2002 – 2008 and is now an IFAC Advisor.

He began his academic career as Engineering Assistant Lecturer at Queen's University, Belfast, where he obtained a BSc (Hons) in Electrical Engineering in 1969 and a PhD in Engineering Mathematics in 1973. He has held the positions of Professor of Computer Systems Engineering at University of Wales, Bangor, Associate Professor at Syracuse University, New York and Research Scientist at NASA Langley, Virginia.

He is a Fellow of the Royal Academy of Engineering, a Fellow of the Institution of Electrical Engineers and of the Institute of Measurement and Control.

Further information about Peter can be found on his homepage, http://www.sheffield.ac.uk/acse/staff/peter_fleming