
Editorial

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Biographical notes: Adil Baykasoglu received his BSc, MSc and PhD in mechanical and industrial engineering areas from Gaziantep, Turkey and Nottingham, UK. From 1993 to 2010, he was with the Department of Mechanical Engineering and Industrial Engineering at the University of Gaziantep. He is currently Full Professor and Chair at the Industrial Engineering Department at the Dokuz Eylul University, Izmir. He has published around 300 academic papers, three books and edited several conference books on operational research, computational intelligence, meta-heuristics, quality, and manufacturing systems design. He is also an active referee for many scientific journals and serving on the board of several academic journals.

Candan Gokceoglu received his BSc from the Department of Hydrogeological Engineering and MSc and PhD from the Department of Geological Engineering, Hacettepe University, Ankara, Turkey, in 1989, 1993, and 1997, respectively. He is currently a Professor with the Applied Geology Division, Department of Geological Engineering, Hacettepe University. He has published over 100 research articles in refereed scientific journals. He is an editorial board member of various international journals. His areas of interest are landslides, rock mechanics, and fuzzy system applications.

Turkey Dereli is currently a Professor of Industrial Engineering Department at the University of Gaziantep in Turkey. He received his BSc and MSc in Mechanical Engineering from the Middle East Technical University, University of Gaziantep, in 1992 and 1994, respectively. He earned his PhD from the University of Gaziantep in 1998. From 1992 to 1998, he was with the Mechanical Engineering Department of University of Gaziantep. He was then employed at the Turkish Military Academy as a Lecturer for one year. He has published numerous papers in professional academic journals and conferences, and has some textbooks on CAD/CAM, IT, brand and quality management. He is an active referee for many professional journals and also organised several national/international conferences. His current research interests include: technology management, CAD/CAM, process planning, feature technology, quality planning and control, TQM, agile/responsive manufacturing, management, informatics and applications of artificial intelligence.

I. Burhan Turksen received his BS and MS in Industrial Engineering and PhD in Systems Management and Operations Research all from the University of Pittsburgh. He joined the Faculty of Applied Science and Engineering at the University of Toronto and became a Full Professor in 1983. Since 1987, he has been the Director of the Knowledge/Intelligence Systems Lab. Since 2005, he is working for Department of Industrial Engineering at TOBB Economics and Technology University. He has won many awards on fuzzy sets and systems area. He has published hundreds of papers and many books on fuzzy sets and related areas.

Welcome to the *International Journal of Industrial and Systems Engineering's* special issue from 'FUZZYSS'2011: 2nd International Fuzzy Systems Symposium'.

Fuzzy logic was proposed by Prof. Lotfi A. Zadeh as a new approach to model vagueness in any kind of systems. Since its introduction fuzzy logic and systems has found numerous applications in many diverse areas. Fuzzy logic is still an exciting research domain with many challenging problems and applications. There are many tools and techniques for modelling and analyses of fuzziness in systems. However, proper use of these tools and techniques needs some expertise which needs to be shared among researchers and practitioners in order to enhance fuzzy logic theory and its helpfulness. Based on this enthusiasm we have organised FUZZYSS'2011 and arranged the present special issue. In the present special issue, the readers will find some of the new modelling applications of fuzzy logic and systems to several interesting problems.

The present special issue contains some of the good quality original research papers, which were presented orally and discussed during the 'FUZZYSS'2011: 2nd International Fuzzy Systems Symposium', 17–18 November 2011 Ankara, Turkey, were selected as candidates for the present special issue. After the re-submission of the revised manuscripts, and rigorous refereeing processes, six papers out of ten papers were finally considered for the publication in the scheduled special issue of

International Journal of Industrial and Systems Engineering. We would like to thank to Prof. Angappa Gunasekaran (the editor of *International Journal of Industrial and Systems Engineering*) for giving us the opportunity to prepare this special issue. This special issue provides the reader a collection of six articles, which offers an exclusive perspective on the topics ranging from fuzzy modelling of peace and sustainable development; facility layout under fuzziness; selection of vineyard location with fuzzy AHP; profiling of sunk cost industries by soft clustering techniques; fuzzy mixed model assembly line balancing and usage of vague sets for fuzzy goal programming.