

Special Issue on Applied Soft Computing
Fuzzy Decision-Making and Consensus: New Trends and Real Life Applications
(Decision Mak. & Consensus)

The use of methodologies and tools to address complex decision making is a topic that has attracted in the past and continues to do at present, and will undoubtedly be the case in future, the attention of both academic, researchers and practitioners in a wide range of disparate areas from engineering, operations research, economic and also management. The development of formal mathematical models to support experts in making decisions is of great importance to assure the validity of the actions derived from a decision outcome. This is of special relevance in decision contexts where the information on the problem at hand is not amenable to be modelled in a quantitative and precise way. Another issue to be addressed is that of inconsistency of information and the dynamic nature of the decision making process itself. This type of decision-making is now being described as decision-making under uncertainty in inconsistent and dynamic environments.

This special issue aims to attract researchers with an interest in the research area described above. Specifically, we are interested in contributions towards the development of consensus models for such decision-making problems, as well as formal approaches that are able to support incomplete or missing information. Special attention is to be paid to the rigorous motivation of the approaches put forward and to support all aspects of the models developed with a corresponding theoretical sound framework. Straight approaches lacking such scientific approach are discouraged. Validation support of presented approaches are encouraged to be done using real practical applications.

Regular papers to this special issue will include, but are not necessarily limited to the following topics:

- Consensus in group decision support systems
 - Consistency and consensus in fuzzy preference modeling
 - Missing preferences in fuzzy consensus and decision making
 - Aggregation of fuzzy preferences
 - Consensus and fuzzy ontologies
 - Consensus software tools
 - Intelligent negotiation systems
 - Fuzzy consensus and decision making in Web frameworks as Social networks, e-commerce activities, e-learning, web security, web quality, digital libraries, etc.
 - Fuzzy consensus in dynamics and critical frameworks as nuclear plants, air-traffic control, finance, health, fire control, risk management, etc.
- where fuzzy consensus and decision making tools are essential to aid experts to make correct decisions in real problems.

Submission Guideline

Authors should prepare their manuscript according to the Guide for Authors available from the online submission page of the *Applied Soft Computing* at <http://ees.elsevier.com/asoc/>. Authors must select “**SI:Decision Mak. & Consensus**” when they reach the “Article Type” step in the submission process. All the papers will be peer-reviewed following the *Applied Soft Computing* reviewing procedures.

Authors should submit their journal version at Manuscript Central adhering to the formatting instructions on the journal Web page and indicate that you are submitting to the Special Issue on **Decision Mak. & Consensus** on the first page and in the field "Author's Cover Letter:" in manuscript central. For additional questions please send an email to the Guest Editors.

Key deadlines/dates:

- Submission deadline: September 20, 2014
- The first review notification: November 30, 2014
- Revised submission due: January 20, 2015
- Notification of the second-round review: February 20, 2015
- Acceptance deadline: March 20, 2015

Guest editors:

Professor Francisco Chiclana,
De Montfort University, UK,
chiclana@dmu.ac.uk

Dra. Núria Agell Jané,
Universitat Ramon Llull, Spain
nuria.agell@esade.edu

Associate Professor Jian Wu
Zhejiang Normal University, China
jyajian@163.com

Professor Enrique Herrera-Viedma
University of Granada, Spain
viedma@decsai.ugr.es