

Call for Papers

**2014 IEEE Symposium on Computational Intelligence
in Multicriteria Decision-Making
(IEEE MCDM'2014)**

December 9-12, 2014, Orlando, Florida, USA

IEEE MCDM'2014 will be held simultaneously with over 20 other symposia and workshops in one location at the 2014 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2014). This international event promotes all aspects of the theory and applications of computational intelligence. Sponsored by the IEEE Computational Intelligence Society, this event will attract top researchers, professionals, practitioners and students from around the world. The registration to SSCI 2014 will allow participants to attend all the symposia, including the complete set of the proceedings of all the meetings, coffee breaks, lunches, and the banquet.

Scope

IEEE MCDM'2014 aims to bring together scientists, engineers and students from around the world to discuss the latest advances in the field of CI applied to issues in MCDM. Topics covered include applications of computational intelligence technologies, such as neural networks and learning algorithms, fuzzy systems, evolutionary computation, and other emerging techniques in the following or similar areas:

- Multiobjective Search/Optimization (MOO)
 - Multi-objective evolutionary algorithms
 - Multi-objective meta-heuristics (scatter and Tabu search)
 - Multi-objective particle swarm optimization
 - Multi-objective ant colonies, bacteria optimization, and other heuristic search methods
 - Handling a large number of objectives
 - Handling large-scale multi-objective problems
- Multiobjective Machine Learning (MOML)
 - Accuracy and complexity trade-off
 - Accuracy-interpretability, stability-plasticity dilemma
 - Pareto-based ensemble generation
 - Pareto-analysis of learning systems
- Decision Making (DM) Techniques
 - Preference elicitation and representation
 - Aggregation/trade-off operators & algorithms
 - Fuzzy logic based DM techniques
 - Bayesian and other DM techniques
- Interactive Visualization (IV)
 - Progressive aggregation methods
 - Decision maker in the loop
- Integration of MOO, ML, DM, and IV to support Multicriteria Decision Making

Important Dates:

15 June 2014	Paper submissions due
5 September 2014	Notification to authors
5 October 2014	Camera-ready papers due

Program Chairs:

Yaochu Jin, University of Surrey, UK
Piero Bonissone, GE Global Research, USA
Juergen Branke, University of Warwick, UK

Program Committee

To be confirmed.