



## **CALL FOR PAPERS** **FOR THE FLINS 2008 SPECIAL SESSION ON**

### **FUZZY DECISION-MAKING: THEORY AND APPLICATIONS**

**Chaired by Prof. Cengiz Kahraman**

Decision-making is the cognitive process of selecting a course of action from multiple alternatives. Fuzzy decision-making originates from the ideas proposed by Bellman and Zadeh (1970), who introduced the concepts of fuzzy constraints, fuzzy objective and fuzzy decision. Fuzzy decision-making deals with non-probabilistic uncertainty and vagueness in the environment in which the decision-making takes place. Fuzzy set approaches to decision-making are usually most appropriate when human evaluations and the modeling of human knowledge are needed. A rational approach toward decision-making should take human subjectivity into account, rather than employing only objective probability measures.

This session covers the following topics but not limited to:

- Fuzzy Logic,
- Genetic Algorithms
- Probabilistic Computing,
- Hybrid Methods,
- Chaos Theory,
- Rough Set Theory,
- Evidence Theory,
- Interactive Computational Models,
- Artificial Intelligence And Expert Systems,
- Process and System Control,
- System Identification and Modelling,
- Optimization, Signal and Image Processing,
- Fault Diagnosis,
- Systems Integration,
- Internet Tools,
- Human-Machine Interface,
- Time Series Prediction,
- Noise Analysis,
- Real Time Systems,
- Robotics,
- Virtual Reality,
- Telecommunications,
- E-science and Technology,
- Data Mining,
- Data Visualization,
- Intelligent Information Retrieval,
- Autonomous Reasoning,
- Risk Analysis and Safety Related Issues.

#### **IMPORTANT DATES:**

- **Special Session Proposal:** December 15, 2007
- **Paper Submission:** January 15, 2008
- **Acceptance Letter:** March 15, 2008
- **Final Paper Submission And Registration:** April 15, 2008

Submit your paper to [flins2008@mat.ucm.es](mailto:flins2008@mat.ucm.es) or to my e-mail address [kahramanc@itu.edu.tr](mailto:kahramanc@itu.edu.tr) indicating that your paper is for the special session **Fuzzy Decision-Making : Theory and Applications** chaired by Prof. Cengiz Kahraman.

A special issue of an international journal with SCI-indexed will be published for the papers presented in these special sessions.