

## Special Session on Applications of Type-2 Fuzzy Systems

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### Special session objectives and topics

Type-2 fuzzy logic is an emerging paradigm which seeks realize computationally efficient fuzzy systems with the ability to give excellent performance in the face of highly uncertain conditions. Type-2 fuzzy systems attempt to achieve this by directly modelling the uncertainties in a problem with an additional degree of freedom in the definition of membership functions.

The aim of this special session is to present top quality research in the areas related to the practical aspects and applications of type-2 fuzzy systems. The session will also provide a forum for the academic community and industry to report on the recent advances on the type-2 fuzzy logic system research in the various domains of type-2 fuzzy logic. Topics include, but are not limited to:

- Type-2 Applications
- Robotics
- Control
- Decision Making
- Classification
- Modelling
- Computing with words
- Type-2 Fuzzy Agents
- Any other application area that deploys type-2 fuzzy logic

The proposers know most of the people working in the field and are extremely confident about enough papers being submitted. They have been involved in special sessions for a number of conferences including Fuzz-IEEE in 2005, 2006, 2007, 2008 and 2009. In 2009 there were 2 sessions with a total of 8 papers with additional papers concerned with type-2 systems appearing in other sessions. The papers have to follow the submission guidelines for FUZZ-IEEE 2010.

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