The focus of this workshop is on the design considerations, issues and challenges in using metacognition to improve the robustness of social systems that include purely artificial entities or both humans and software agents. Metacognition is the process of thinking about thinking itself. It is composed of both meta-level control of cognitive activities and the introspective monitoring of such activities to evaluate and to explain them.

The significance of this workshop is to continue to bring together researchers from different areas such as multi-agent systems, planning/scheduling, case-based reasoning and cognitive science. It will foster discussions about ongoing research in metacognition, identify best practices and establish directions for future research and collaborations.

Specific topics of interest include:

- Bounded rationality in social systems
- Centralized versus distributed meta-level control
- Computational models of self and consciousness
- Conflict resolution in social systems
- Emotional models for social systems
- Evaluation of metareasoning systems
- Human metacognition and metamemory
- Integration of meta-level control and monitoring
- Learning agents and metareasoning
- Logical introspection and reflective logic programming
- Meta-cognitive architectures for social systems
- Meta-explanation and self-explanation
- Meta-level control in social systems
- Meta-level monitoring in social systems
- Multiagent coordinated metareasoning
- Representing meta-cognitive social laws
- Role of state abstraction in metareasoning
- Self-adaptive systems and autonomic computing
- Theoretical models of metareasoning

Format
This two day workshop will include a number of short paper presentations, thematically organized discussion sessions, a break-out problem-solving session with discussion, and
two speakers. We will also include panel discussions after each group of paper presentations so that the audience can ask follow up questions that compare and contrast the related positions.

**Submission Procedure**
The submission should not exceed 8 pages in the AAAI style, either in PostScript or PDF format. Submissions must be emailed to both chairs (anraja@uncc.edu and darsana@cs.umd.edu) by the deadline period. Short position statements are also accepted.

**Organizing Committee**
Co-chairs: Anita Raja (University of North Carolina at Charlotte) and Darsana Josyula (Bowie State University)

**Program Committee**
Michael L. Anderson, Franklin & Marshall College
Guido Boella, University of Torino
Michael Cox, DARPA
Ashok Goel, Georgia Tech
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Matthew Schmill, University of Maryland, Baltimore County
Shlomo Zilberstein, University of Massachusetts

**URL**
http://www.cs.umd.edu/~darsana/AAAI10MRSS/