

AAAI Spring Symposium Series

Interaction between Humans and Autonomous Systems over Extended Operation

Monday, March 24

09:00 – 10:30 Opening –

Invited Talk by David Woods, Ohio State University

11:00 – 12:30 - Individual Assistance from Autonomous Systems

"Human-Robot Interaction in a Robotic Guide for the Visually Impaired" -
Kulyukin, V.; Gharpure, C.; De Graw, N.

"A Personal Calendar Assistant" -Berry, P; Gervasio M; Uribe, T; Myers, K

"Automated Elder Home Care:Long Term Adaptive Aiding and Support We Can
Live With" - Miller, C.; Wu, P.; Krichbaum, K.; Kiff, L.

"A Patient Autonomous Knowledge Sharing System For Outdoor Public Spaces"
- Bohlen, M.; Tan, N.

2:00 – 3:30 Adaptation

"Adjustable Autonomy for a Robot following Route Directions" -MacMahon, M.;
Adams, W.; Bugajska, M.; Perzanowski, D.;Schultz, A.; Thomas, S.

"On Short-Term and Long-Term Memory for Brahms Agents" - Sierhuis, M.;
Clancy, W.; van Hoof, R.

"Multiagent Learning during Human-Machine Interactions" - Crandall, J.;
Goodrich, M. A.

"Knowledge Representation and Ontology for Autonomous Systems" - Arata, A

4:00 – 5:30 Aerospace Applications

"Science Goal Driven Automation for NASA Missions: The Science Goal
Monitor" - Koratkar, A.; Jones, J.; Jung, J.; Grosvenor, S.

"Human-Agent Teams for Extended Control Operations in Space" -
Schreckenghost, D.; Bonasso, R. P.; Martin, C.; Milam, T.; Thronesbery, C.

"Flight Plan Management with George Jetson as Pilot" - Atkins, E.

"Human-interaction challenges in UAV-based autonomous surveillance" - Freed,
M.; Harris, R.

Tuesday March 23

9:00 – 10:30 Autonomous Systems Modeling Humans

"Contextual Computer Support for Human activity" - Patterson, D. J.; Fishkin, K.;
Fox, D.; Kautz, H.; Perkowitz, M.; Philipose, M.

"Task Tracking for Verification and Validation of Long Term Collaboration with
Autonomous Systems" - Geib, C

- "Using an Activity Model to Address Issues in Task-Oriented Dialogue Interaction over Extended Periods" - Gruenstein, A.; Cavedon, L.
- "A Decision procedure for autonomous agents to reason about interaction with humans" - Fleming, M.; Cohen, R.
- 11:00 – 12:30 Is Adaptation Necessary? – Papers and Panel Discussion
- "Natural language Interpretation by Autonomous Systems" - Dawidowicz, E
- "Coordination Advice: Human Advice to Multiagent Teams" - Schurr, N.; Scerri, P.; Tambe, M.
- 2:00 – 3:30 Human Models of Autonomous Systems
- "Metacognitive tools: The need for intelligent change alerting or logging in complex monitoring and control systems" - Durlach, P.
- "Complex Event Pattern Recognition for Long Term System Monitoring" - Fitzgerald, W.; Firby, R. J.; Phillips, A.; Kairys, J.
- "Agent Based Framework for content based image Retrieval" - Saha, S.; Sen, S.
- 4:00 – 5:30 Humans and Autonomous Systems as Systems
- "Communicating Values to Autonomous Agents" - Shapiro, D.; Collopy, P.
- "A Quantum model of Organizations, Autonomy, and Control" - Lawless, W; Grayson, J. M.
- "Modeling Autonomic-Dependent Human-Robotic Cooperation as an Ecosystemic Communication Channel" - Cottam, R.; Ranson, W.; Vounckx, R.
- "Some Pragmatic Considerations of Human and Intelligent System Interaction and Cooperation" - Berg-Cross, G.

Wednesday, March 24

9:00 – 10:30 Where is my autonomous system? Panel Discussion

- 11:00 – 12:30 Coordination among Teams of Humans and Autonomous systems
- "Preliminary Results in Sliding Autonomy for Coordinated Teams" - Brookshire, J.; Singh, S.; Simmons, R.
- "Interaction between Autonomous Systems and Anomaly Response Teams" - Malin, J
- "Teamwork-Centered Autonomy for Extended Human-Agent Interaction in Space Applications" - Bradshaw, J. M.; Acquisti, A.; Allen, J.; Breedy, M.; Bunch, L.; Chambers, N.; Galescu, L.; Goodrich, M.; Jeffers, R.; Johnson, M.; Jung, H.; Kulkarni, S.; Lott, J. Olsen, D.; Sierhuis, M.; Suri, N.; Tonti, G.; van Hoof, R.; Uszok, A.
- "Augmenting Automated Control Software to Interact with Multiple Humans" - Martin, C.; Schreckenghost, D.; Bonasso, R. P.