Contents

Monday May 6: Tutorials

08:30-12:30, 13:30-17:30

T7: Tutorial Self-Interested Decision Making in Sequential Multiagent Settings (Full day)
Room: #113

T8: Tutorial Cooperative Decision Making in Sequential Multiagent Settings (Full day)
Room: #114

Monday May 6: Workshops

08:30-12:30

W21: Agent-Mediated Electronic Commerce XV (AMEC XV) (Morning)
Room: #115

08:30-12:30, 13:30-17:30

DC: Doctoral Consortium (Full day)
Room: Great River 1
W3: Workshop Engineering Multi-Agent Systems (EMAS) (First day)
Room: Governors 1
W5: Workshop Emergent Intelligence on Networked Agents (WEIN2013) (Full day)
Room: Governors 3
W6: Workshop Adaptive and Learning Agents (ALA13) (Full day plus next morning)
Room: Capitol Ballroom
W7: Workshop Coordination, Organization, Institutions and Norms in Agent Systems (COIN13) (Full day)
Room: Governors 4
W9: Workshop Spatial Computing (SCW) (Full day)
Room: State 2
W10: Workshop Argumentation in Multi-Agent Systems (ArgMAS 2013) (Full day)
Room: #116
W11: Workshop Agents and Data Mining Interaction (ADMI13) (Full day)
Room: State 1
W12: Workshop Agent-based Complex Automated Negotiations (ACAN2013) (Full day)
Room: State 3
W22: Workshop Cooperative Games in Multiagent Systems (CoopMAS 2013) (Full day)
Room: Governors 5

13.30 - 17.30

W2: Workshop Collaborative Online Organizations (COOS'13) (Afternoon)
Room: #115
W1: Workshop on Multi-Agent-Based Simulation (MABS 2013) (Afternoon plus full day)
Room: Governors 2

coffee breaks 10:30-11:00, 15:30-16:00. Lunch 12:30-13:30 on your own

Tuesday May 7: Tutorials

08:30-12:30

T4: Tutorial Cognitive Agents for Social Simulation (Morning)
Room: #113

08:30-12:30, 13:30-17:30

T2: Tutorial Multi-Agent Reinforcement Learning (Full day)
Room: #115

13:30-17:30

T1: Tutorial Judgement Aggregation (Afternoon)
Room: Capitol Ballroom
T9: Tutorial Agent-Mediated Electronic Negotiation (Afternoon)
Room: #113

Tuesday May 7: Workshops

08:30-12:30
W6: Workshop Adaptive and Learning Agents (ALA13) (Second day, morning)
Room: Capitol Ballroom

08:30-12:30, 13:30-17:30
W1: Workshop on Multi-Agent-Based Simulation (MABS 2013) (Second day)
Room: Governors 2
W3: Workshop Engineering Multi-Agent Systems (EMAS) (Second day)
Room: Governors 1
W4: Workshop Multiagent-based Societal Systems (MASS 2013) (Full day)
Room: #114
W8: Workshop Cognitive Agents and Virtual Environments (CAVE13) (Full day)
Room: #116
W13: Workshop Human-Agent Interaction Design and Models (HAIDM) (Full day)
Room: State 1
W14: Workshop Multiagent Sequential Decision Making Under Uncertainty (MSDM) (Full day)
Room: Governors 3
W15: Workshop Autonomous Robots and Multirobot Systems (ARMS) (Full day)
Room: Minnesota West
W17: Workshop Trust in Agent Societies (TRUST13) (Full day)
Room: Governors 5
W18: Workshop Optimisation in Multi-Agent Systems (OPTMAS) (Full day)
Room: Governors 4
W20: Workshop Agent Technologies for Energy Systems (ATES2013) (Full day)
Room: State 3
W23: Workshop Multiagent Interaction Networks (MAIN) (Full day)
Room: State 2

coffee breaks 10:30-11:00, 15:30-16:00. Lunch 12:30-13:30 on your own

Program At-a-Glance – Tuesday May 7

19:00 - 21:30	**Opening Reception** *Science Museum of Minnesota* 120 W. Kellogg Blvd., St. Paul, MN 55102

Program At-a-Glance – Wednesday May 8

08:30 - 8:45	**Welcome and Opening** *Room: Minnesota Ballroom*
08:45 - 9:45	**Invited talk** A Multi-Agent Systems "Turing Challenge" Barbara J. Grosz (Harvard University, USA) *Room: Minnesota Ballroom*
10:00 - 11:00	Coffee break, posters, and demos *Room: Garden Court East*
11:00 - 12:40	**A1:** Robotics *Room: Capitol Ballroom* **B1:** Game Theory *Room: Minnesota Ballroom* **C1:** Social Choice *Room: Governors 1* **D1:** Planning *Room: Governors 3W-4* **E1:** Virtual Agents *Room: Governors 2-3E* **F1:** Innovative Applications *Room: Governors 5*
12:40 - 13:50	*Lunch*
13:50 - 15:30	**A2:** Robotics *Room: Capitol Ballroom* **B2:** Game Theory *Room: Minnesota Ballroom* **C2:** Social Choice *Room: Governors 3W-4* **D2:** Virtual Agents *Room: Governors 2-3E* **E2:** Challenges & Visions *Room: Governors 1* **F2:** Innovative Applications *Room: Governors 5*
15:30 - 16:30	Coffee break, posters, and demos *Room: Garden Court East*
16:30 - 17:30	**ACM/SIGART Autonomous Agents Research Award talk** Multiagent Systems, and the Search for Appropriate Foundations Jeffrey S. Rosenschein (The Hebrew University of Jerusalem, Israel) *Room: Minnesota Ballroom*

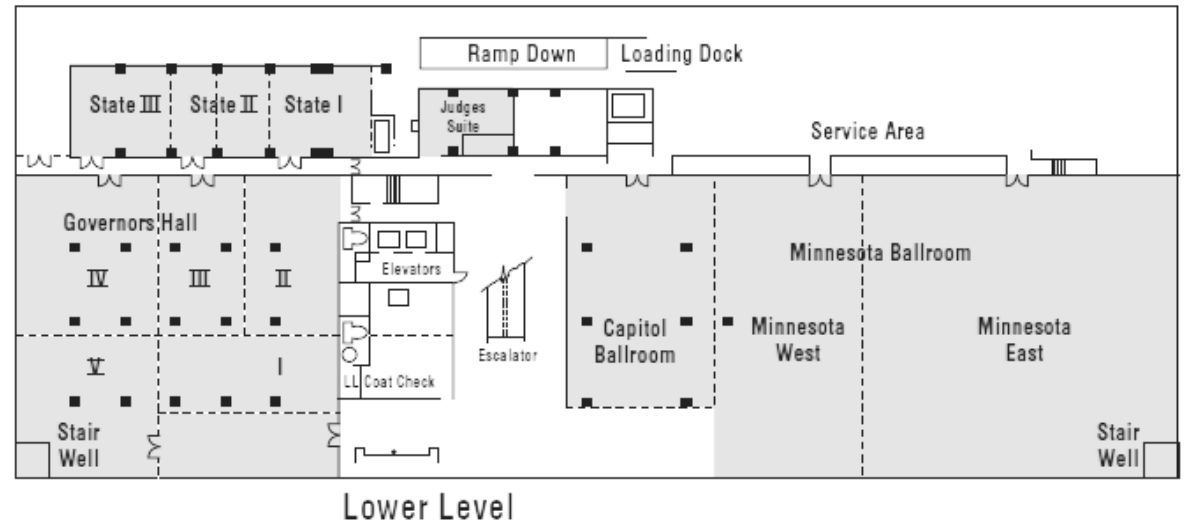
Program At-a-Glance – Thursday May 9

08:45 - 9:45	**Invited Talk** Agents of Value Batya Friedman (University of Washington, USA) *Room: Minnesota Ballroom*
10:00 - 11:00	Coffee break, posters, and demos *Room: Garden Court East*
11:00 - 12:40	**A3:** Robotics *Room: Capitol Ballroom* **B3:** Game Theory *Room: Minnesota Ballroom* **C3:** Social & Organizational Structure *Room: Governors 2-3E* **D3:** Auction & Mechanism Design *Room: Governors 1* **E3:** Trust, Reliability & Reputation *Room: Governors 3W-4* **F3:** Formal Approaches *Room: Governors 5* **ANAC:** Finals Automated Negotiating Agents Competiton *Room: State 3*
12:40 - 13:50	*Lunch*
13:50 - 15:30	**A4:** Simulation *Room: Governors 3W-4* **B4:** Game Theory *Room: Minnesota Ballroom* **C4:** Normative Systems *Room: Governors 2-3E* **D4:** Auction & Mechanism Design *Room: Governors 1* **E4:** Formal Theories *Room: Governors 5* **F4:** Learning *Room: Capitol Ballroom*
15:30 - 16:30	Coffee break, posters, and demos *Room: Garden Court East*
16:30 - 17:30	**IFAAMAS Victor Lesser Distinguished Dissertation Award talk** Cultural Diversity for Virtual Characters: Investigating Behavioral Aspects across Cultures Birgit Endrass (Augsburg University, Germany) *Room: Minnesota Ballroom*
18:30 - 21:30	**Banquet and award ceremony** *Room: Great River*

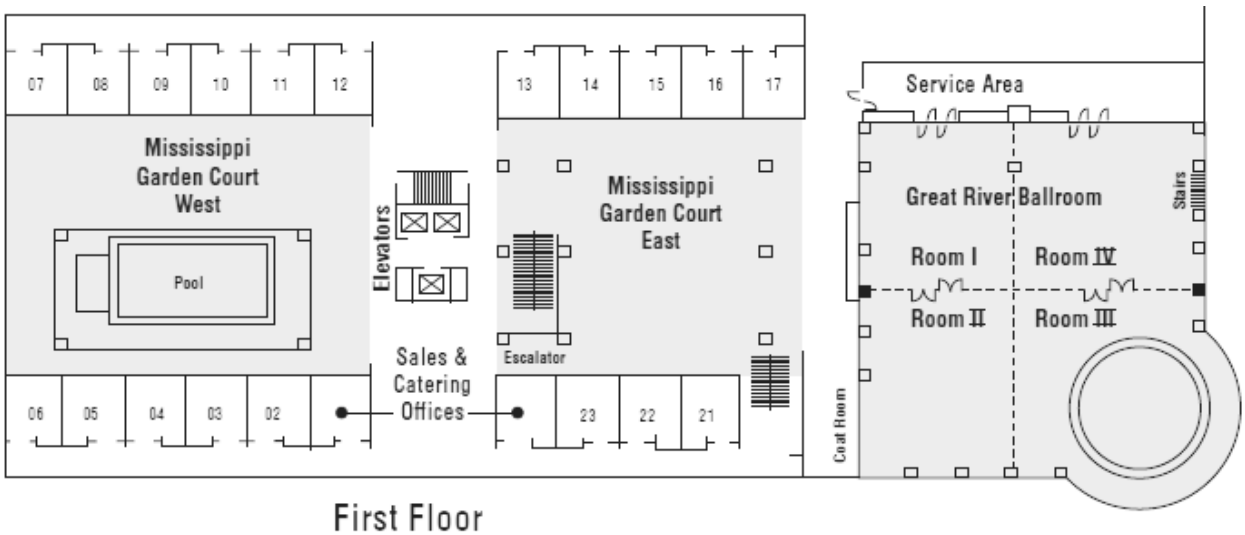
Program At-a-Glance – Friday May 10

09:00 - 10:00	**IFAAMAS Influential Paper Award talk** InMind and OutMind Societal Order. Cognition & Self-Organization: The role of MAS Cristiano Castelfranchi (Inst. of Cognitive Sciences and Technologies, Italy) *Room: Minnesota Ballroom*
10:00 - 11:00	Coffee break *Room: Lower Lobby*
11:00 - 12:20	**A5:** Distributed Problem Solving *Room: Governors 2-3E* **C5:** Teamwork, Coalition, Coordination *Room: Minnesota Ballroom* **D5:** Negotiation & Cooperation *Room: Governors 1* **E5:** HRI & Reasoning *Room: Governors 3W-4* **F5:** Learning *Room: Capitol Ballroom*
12:30 - 14:00	**Community meeting and AAMAS 2014 presentation** *Room: Minnesota Ballroom*

Floor Maps



Lower Level



First Floor

Monday May 6: Doctoral Consortium

Room: Great River I Chairs: Matt Taylor and Mark Hoogendorn

09:00-9:15 Welcome by Matt Taylor and Mark Hoogendorn

09:15-10:15 Keynote talk by Jeffrey S. Rosenschein (The Hebrew University of Jerusalem, Israel)

10:15-10:40 Coffee break

10:40-12:00 Student presentations:

Dynamic Contracting in Infrastructures
Joris Scharpff (Delft University of Technology, The Netherlands)

OperA+: A Model for Context-Aware Organizational Interactions in Virtual Organizations
Jie Jiang (Delft University of Technology, The Netherlands)

Artificial Culture in Artificial Societies
Loïs Vanhée (University of Montpellier II, France)

Ad Hoc Teamwork for Leading a Flock
Katie Genter (University of Texas at Austin, USA)

12:00-13:00 Lunch

13:00-14:00 Career panel: Mark Boddy, Jeff Rosenschein, Catholijn Jonker

14:00-15:30 Student presentations:

Information Sharing for Care Coordination
Ofra Amir (Harvard University, USA)

Influence of Inter-Agent Variation on System Redundancy in Multiagent Systems
Ramya Pradhan (University of Central Florida, USA)

Towards the Design of a Robust Incentive Mechanism for E-Marketplaces with Limited Inventory
Yuan Liu (Nanyang Technological University, Singapore)

Ad Hoc Coordination in Multiagent Systems with Applications to Human-Machine Interaction
Stefano V. Albrecht (University of Edinburgh, UK)
Subramanian Ramamoorthy (University of Edinburgh, UK)

15:40-16:30 Poster presentations with coffee break

Designing an Automated Negotiator: Learning What to Bid and When to Stop (Doctoral Consortium)
Tim Baarslag (Delft University of Technology, The Netherlands)

Agents with a Moral Dimension
Cristina Battaglino (Università degli Studi di Torino, Italy)

Solving Extensive-Form Games with Double-Oracle Methods
Branislav Bosansky (Czech Technical University in Prague, Czech Rep)

Theory and Applications of Difference Evaluation Functions
Mitchell K. Colby (Oregon State University, USA)

The Effects of Human Personality on Human-Agent Interactions
Hongying Du (University of South Carolina, USA)

Active Sensing in Complex Multiagent Environments
Adam Eck (University of Nebraska-Lincoln, USA)

Emergence of Privacy Conventions in Online Social Networks
Mohammad Rashedul Hasan (University of North Carolina at Charlotte, USA)

Dispersion and Exploration for Robot Teams
Elizabeth A. Jensen (University of Minnesota, USA)

Reinforcement Learning for Decentralized Planning Under Uncertainty
Landon Kraemer (The University of Southern Mississippi, USA)

Towards "Live" Synthetic Populations for Large-Scale Realistic Multiagent Simulations
Nidhi Parikh (Virginia Tech, USA)

Task Allocation for Multi-Agent Systems in Dynamic Environments
James E. Parker (University of Minnesota, USA)

From Supply Chain Formation to Multi-Agent Coordination
Toni Penya-Alba (IIIA-CSIC, Spain)

Computationally Efficient Techniques for Economic Mechanisms
Marco Rocco (Politecnico di Milano, Italy)

Deliberation About Preferences and Group Decisions
Samy Sá (Universidade Federal do Ceará, Brazil)

Creating an Artificially Intelligent Director (AID) for Theatre and Virtual Environments
Christine Talbot (University of North Carolina at Charlotte, USA)

Multimodal Intelligent Affect Detection with Kinect
Yang Zhang (Northumbria University, UK)
Li Zhang (Northumbria University, UK)
Alamgir Hossain (Northumbria University, UK)

Programming Autonomous Robots Using Agent Programming Languages
Pouyan Ziafati (University of Luxembourg & Utrecht University, Luxembourg & The Netherlands)

16:30-17:30 Discussions in subgroups led by experienced researchers

17:30-18:00 Closing

Monday May 6: CRA-W/CDC Mentoring Program

Room: State 1 Chair: Anita Raja

18:00-19:30 Group Dinner

19:30-20:00 Talk on crowd simulation by Stephen Guy, University of Minnesota

20:15-21:00 Mentoring panel and discussion Panelists: Maria Gini, University of Minnesota; Hala Mostafa, Research Scientist, BBN Technologies; Elizabeth Sklar, Brooklyn College and CUNY Grad Center; Stephen Guy, University of Minnesota. Panel Moderator: Anita Raja, University of North Carolina at Charlotte

Wed. 11:00-12:40 Session: A1 - Robotics I

Room: Capitol Ballroom Chair: Alexander Kleiner

Multi-Robot Informative Path Planning for Active Sensing of Environmental Phenomena: A Tale of Two Algorithms *(P3-34)*
Nannan Cao (National University of Singapore, Singapore)
Kian Hsiang Low (National University of Singapore, Singapore)
John M. Dolan (Carnegie Mellon University, USA)

Sensor Fault Detection and Diagnosis for Autonomous Systems *(P2-30)*
Eliahu Khalastchi (Ben-Gurion University of the Negev, Israel)
Meir Kalech (Ben-Gurion University of the Negev, Israel)
Lior Rokach (Ben-Gurion University of the Negev, Israel)

Abnormality Detection in Multiagent Systems Inspired by the Adaptive Immune System *(P3-35)*
Danesh Tarapore (Institute for Systems and Robotics (ISR), Instituto Superior Técnico & Instituto Gulbenkian de Ciência, Portugal)
Anders Lynhe Christensen (Instituto de Telecomunicacões, Instituto Universitário de Lisboa, Portugal)
Pedro U. Lima (Institute for Systems and Robotics (ISR), Instituto Superior Técnico, Portugal)
Jorge Carneiro (Instituto Gulbenkian de Ciência, Portugal)

Incrementally Biasing Visual Search Using Natural Language Input *(P4-27)*
Evan Krause (Tufts University, USA)
Rehj Cantrell (Indiana University, USA)
Ekaterina Potapova (Vienna University of Technology, Austria)
Michael Zillich (Vienna University of Technology, Austria)
Matthias Scheutz (Tufts University, USA)

Humanoid Robots Learning to Walk Faster: From the Real World to Simulation and Back *(P3-36)*
Alon Farchy (The University of Texas at Austin, USA)
Samuel Barrett (The University of Texas at Austin, USA)
Patrick MacAlpine (The University of Texas at Austin, USA)
Peter Stone (The University of Texas at Austin, USA)

Wed. 11:00-12:40 Session: B1 - Game Theory I

Room: Minnesota Ballroom Chair: Milind Tambe

Optimal Interdiction of Attack Plans *(P3-37)*
Joshua Letchford (Duke University, USA)
Yevgeniy Vorobeychik (Sandia National Laboratories, USA)

Game-Theoretic Randomization for Security Patrolling with Dynamic Execution Uncertainty *(P1-33)*
Albert Xin Jiang (University of Southern California, USA)
Zhengyu Yin (University of Southern California, USA)
Chao Zhang (University of Southern California, USA)
Milind Tambe (University of Southern California, USA)
Sarit Kraus (Bar-Ilan University, Israel)

Security Scheduling for Real-World Networks *(P4-28)*
Manish Jain (University of Southern California, USA)
Vincent Conitzer (Duke University, USA)
Milind Tambe (University of Southern California, USA)

Security Games with Surveillance Cost and Optimal Timing of Attack Execution *(P4-29)*
Bo An (Chinese Academy of Sciences, China)
Matthew Brown (University of Southern California, USA)
Yevgeniy Vorobeychik (Sandia National Laboratories, USA)
Milind Tambe (University of Southern California, USA)

Security Games with Interval Uncertainty *(P1-34)*
Christopher Kiekintveld (University of Texas at El Paso, USA)
Towhidul Islam (University of Texas at El Paso, USA)
Vladik Kreinovich (University of Texas at El Paso, USA)

Wed. 11:00-12:40 Session: C1 - Social Choice I

Room: Governors 1 Chair: Toby Walsh

On Manipulation in Multi-Winner Elections Based on Scoring Rules *(P3-38)*
Svetlana Obraztsova (National Technical University of Athens, Greece)
Yair Zick (Nanyang Technological University, Singapore)
Edith Elkind (Nanyang Technological University, Singapore)

Weighted Electoral Control *(P4-30)*
Piotr Faliszewski (AGH University of Science and Technology, Poland)
Edith Hemaspaandra (Rochester Institute of Technology, USA)
Lane A. Hemaspaandra (University of Rochester, USA)

It Only Takes a Few: On the Hardness of Voting with a Constant Number of Agents *(P4-31)*
Felix Brandt (Technische Universität München, Germany)
Paul Harrenstein (University of Oxford, UK)
Keyvan Kardel (Technische Universität München, Germany)
Hans Georg Seedig (Technische Universität München, Germany)

On Swap-Distance Geometry of Voting Rules *(P4-32)*
Svetlana Obraztsova (National Technical University of Athens & Steklov Institute of Mathematics, Greece)
Edith Elkind (Nanyang Technological University, Singapore)
Piotr Faliszewski (AGH University of Science and Technology, Poland)
Arkadii Slinko (University of Auckland, New Zealand)

Empirical Analysis of Plurality Election Equilibria *(P4-33)*
David R. M. Thompson (University of British Columbia, Canada)
Omer Lev (The Hebrew University of Jerusalem, Israel)
Kevin Leyton-Brown (University of British Columbia, Canada)
Jeffrey Rosenschein (The Hebrew University of Jerusalem, Israel)

Wed. 11:00-12:40 Session: D1 - Planning

Room: Governors 3W-4 Chair: Amal El Fallah Seghrouchni

Finding Objects Through Stochastic Shortest Path Problems *(P3-39)*
Felipe W. Trevizan (Carnegie Mellon University, USA)
Manuela M. Veloso (Carnegie Mellon University, USA)

Stratified Tree Search: A Novel Suboptimal Heuristic Search Algorithm *(P2-31)*
Levi H. S. Lelis (University of Alberta, Canada)
Sandra Zilles (University of Regina, Canada)
Robert C. Holte (University of Alberta, Canada)

Approximate Solutions for Factored Dec-POMDPs with Many Agents *(P3-40)*
Frans A. Oliehoek (Maastricht University, The Netherlands)
Shimon Whiteson (University of Amsterdam, The Netherlands)
Matthijs T .J. Spaan (Delft University of Technology, The Netherlands)

Light at the End of the Tunnel: A Monte Carlo Approach to Computing Value of Information *(P3-41)*
Ece Kamar (Microsoft Research, USA)
Eric Horvitz (Microsoft Research, USA)

Weighted Real-Time Heuristic Search *(P3-42)*
Nicolás Rivera (Pontificia Universidad Católica de Chile, Chile)
Jorge A. Baier (Pontificia Universidad Católica de Chile, Chile)
Carlos Hernandez (Universidad Católica de la Santisima Concepción, Chile)

Wed. 11:00-12:40 Session: E1 - Virtual Agents II

Room: Governors 2-3E Chair: Ruth Aylett

An Evaluation of the COR-E Computational Model for Affective Behaviors *(P2-32)*
Sabrina Campano (Université Pierre et Marie Curie, France)
Nicolas Sabouret (Université Pierre et Marie Curie, France)
Etienne de Sevin (Université Pierre et Marie Curie, France)
Vincent Corruble (Université Pierre et Marie Curie, France)

A Highly Elaborative Reminiscing Virtual Agent to Enhance Student Memory of Virtual World Events *(P4-34)*
Michelle Nicholas (Macquarie University, Australia)
Deborah Richards (Macquarie University, Australia)
Penny Van Bergen (Macquarie University, Australia)

Conflict Inside Out: A Theoretical Approach to Conflict from an Agent Point of View *(P1-35)*
Joana Campos (INESC-ID and Instituto Superior Técnico, Portugal)
Carlos Martinho (INESC-ID and Instituto Superior Técnico, Portugal)
Ana Paiva (INESC-ID and Instituto Superior Técnico, Portugal)

Emotional Range in Value-Sensitive Deliberation *(P3-43)*
Cristina Battaglino (Università degli Studi di Torino, Italy)
Rossana Damiano (Università degli Studi di Torino, Italy)
Leonardo Lesmo (Università degli Studi di Torino, Italy)

I Want to Be Your Friend: Establishing Relations with Emotionally Intelligent Agents *(P4-35)*
João Dias (Universidade Técnica de Lisboa, Instituto Superior Técnico, Portugal)
Ana Paiva (Universidade Técnica de Lisboa, Instituto Superior Técnico, Portugal)

Wed. 11:00-12:40 Session: F1 - Innovative Applications I

Room: Governors 5 Chair: John Thangarajah

Multiuser Museum Interactives for Shared Cultural Experiences: An Agent-Based Approach *(P2-33)*
Matthew Yee-King (Goldsmiths College, University of London, UK)
Roberto Confalonieri (Goldsmiths College, University of London, UK)
Dave de Jonge (Artificial Intelligence Research Institute, Spain)
Katina Hazelden (Goldsmiths College, University of London, UK)
Carles Sierra (Artificial Intelligence Research Institut, Spaine)
Mark d'Inverno (Goldsmiths College, University of London, UK)
Leila Amgoud (Universitè Paul Sabatier, France)
Nardine Osman (Artificial Intelligence Research Institute, Spain)

iCO2: Multi-User Eco-Driving Training Environment Based on Distributed Constraint Optimization *(P3-44)*
Marconi Madruga (National Institute of Informatics, Japan)
Helmut Prendinger (National Institute of Informatics, Japan)

Discrete Relative States to Learn and Recognize Goals-Based Behaviors of Groups *(P3-45)*
Jérémy Patrix (University of Caen, France)
Abdel-Illah Mouaddib (University of Caen, France)
Simon Le Gloannec (CASSIDIAN, France)
Dafni Stampouli (CASSIDIAN, France)
Marc Contat (CASSIDIAN, France)

Multiagent Reinforcement Learning in a Distributed Sensor Network with Indirect Feedback *(P2-34)*
Mitchell Colby (Oregon State University, USA)
Kagan Tumer (Oregon State University, USA)

Modeling Human Behavior in the Aftermath of a Hypothetical Improvised Nuclear Detonation *(P4-36)*
Nidhi Parikh (Virginia Bioinformatics Institute, Virginia Tech, USA)
Samarth Swarup (Virginia Bioinformatics Institute, Virginia Tech, USA)
Paula E. Stretz (Virginia Bioinformatics Institute, Virginia Tech, USA)
Caitlin M. Rivers (Virginia Bioinformatics Institute, Virginia Tech, USA)
Bryan L. Lewis (Virginia Bioinformatics Institute, Virginia Tech, USA)
Madhav V. Marathe (Virginia Bioinformatics Institute, Virginia Tech, USA)
Stephen G. Eubank (Virginia Bioinformatics Institute, Virginia Tech, USA)
Christopher L. Barrett (Virginia Bioinformatics Institute, Virginia Tech, USA)
Kristian Lum (Virginia Bioinformatics Institute, Virginia Tech, USA)
Youngyun Chungbaek (Virginia Bioinformatics Institute, Virginia Tech, USA)

Wednesday May 8, Morning Poster Session 1

P1-1: A Game-Theoretic Model and Best-Response Learning Method for Ad Hoc Coordination in Multiagent Systems
Stefano V. Albrecht (University of Edinburgh, UK)
Subramanian Ramamoorthy (University of Edinburgh, UK)

P1-2: MacGyver Virtual Agents: Using Ontologies and Hierarchies for Resourceful Virtual Human Decision-Making
John T. Balint (George Mason University, USA)
Jan M. Allbeck (George Mason University, USA)

P1-3: Decoupling the Multiagent Disjunctive Temporal Problem
James C. Boerkoel Jr. (Massachusetts Institute of Technology, USA)
Edmund H. Durfee (University of Michigan, USA)

P1-4: Multi-Agent Planning by Plan Reuse
Daniel Borrajo (Universidad Carlos III de Madrid, Spain)

P1-5: An Approach to Team Programming with Markup for Operator Interaction
Nathan Brooks (Carnegie Mellon University, USA)
Ewart de Visser (Perceptronics Solutions, Inc., USA)
Timur Chabuk (Perceptronics Solutions, Inc., USA)
Elan Freedy (Perceptronics Solutions, Inc., USA)
Paul Scerri (Carnegie Mellon University, USA)

P1-6: Positive Results for Mechanism Design without Money
Richard Cole (New York University, USA)
Vasilis Gkatzelis (New York University, USA)
Gagan Goel (Google Research, USA)

P1-7: Optimization Based Coordinated UGV-MAV Exploration for 2D Augmented Mapping
Ayush Dewan (International Institute of Information Technology, India)
Aravindh Mahendran (International Institute of Information Technology, India)
Nikhil Soni (International Institute of Information Technology, India)
Madhava Krishna (International Institute of Information Technology, India)

P1-8: Potential-Based Reward Shaping for POMDPs
Adam Eck (University of Nebraska-Lincoln, USA)
Leen-Kiat Soh (University of Nebraska-Lincoln, USA)
Sam Devlin (University of York, UK)
Daniel Kudenko (University of York, UK)

P1-9: Arguments in Social Networks
Simone Gabbriellini (University of Bologna, Italy)
Paolo Torroni (University of Bologna, Italy)

P1-10: Possible and Necessary Winner Problem in Social Polls
Serge Gaspers (The University of New South Wales and NICTA, Australia)
Victor Naroditskiy (University of Southampton, UK)
Nina Narodytska (NICTA and The University of New South Wales, Australia)
Toby Walsh (NICTA and The University of New South Wales, Australia)

P1-11: Modeling Non-Stationary Opponents
Pablo F. Hernandez-Leal (Instituto Nacional de Astrofísca, Mexico)
Enrique Munoz de Cote (Instituto Nacional de Astrofísca, Mexico)
L. Enrique Sucar (Instituto Nacional de Astrofísca, Mexico)

P1-12: CLEAN Rewards for Improving Multiagent Coordination in the Presence of Exploration
Chris HolmesParker (Oregon State University, USA)
Adrian Agogino (NASA Ames Research Center, USA)
Kagan Tumer (Oregon State University, USA)

P1-13: SA-MAS: Self-Adaptation to Enhance Software Qualities in Multi-Agent Systems
Didac Gil de la Iglesia (Linnaeus University, Sweden)
Danny Weyns (Linnaeus University, Sweden)

P1-14: Norm Compliance Checking
Jie Jiang (Delft University of Technology, The Netherlands)
Virginia Dignum (Delft University of Technology, The Netherlands)
Huib Aldewereld (Delft University of Technology, The Netherlands)
Frank Dignum (Utrecht University, The Netherlands)
Yao-Hua Tan (Delft University of Technology, The Netherlands)

P1-15: Combining Activity Scheduling and Path Planning to Populate Virtual Cities
Carl-Johan Jørgensen (MimeTIC team - IRISA, France)
Fabrice Lamarche (MimeTIC team - IRISA, France)

P1-16: On the Use of Teamwork Software for Multi-Robot Formation Control
Gal A. Kaminka (Bar Ilan University, Israel)
Meytal Traub (Bar Ilan University, Israel)
Yehuda Elmaliach (Cogniteam, Ltd. and the College of Management, Israel)
Dan Erusalimchik (Cogniteam, Ltd., Israel)
Alex Fridman (Bar Ilan University, Israel)

P1-17: Representing and Reasoning about Communicative Conditional Commitments
Warda El Kholy (Concordia University, Canada)
Mohamed El Menshawy (Concordia University, Canada)
Jamal Bentahar (Concordia University, Canada)
Hongyang Qu (Oxford University, UK)
Rachida Dssouli (Concordia University, Canada)

P1-18: u-Help: Supporting Helpful Communities with Information Technology
Andrew Koster (UFRGS, Spain)
Jordi Madrenas (IIIA-CSIC, Spain)
Nardine Osman (IIIA-CSIC, Spain)
Marco Schorlemmer (IIIA-CSIC, Spain)
Jordi Sabater-Mir (IIIA-CSIC, Spain)
Carles Sierra (IIIA-CSIC, Spain)
Angela Fabregues (IIIA-CSIC & Universidad Autònoma de Barcelona, Spain)
Dave de Jonge (IIIA-CSIC & Universidad Autònoma de Barcelona, Spain)
Josep Puyol-Gruart (IIIA-CSIC & Universidad Autònoma de Barcelona, Spain)
Pere Garcia-Calvés (IIIA-CSIC, Spain)

P1-19: A Distributed Protocol for Collective Decision-Making in Combinatorial Domains
Minyi Li (Swinburne University of Technology, Australia)
Quoc Bao Vo (Swinburne University of Technology, Australia)
Ryszard Kowalczyk (Swinburne University of Technology, Australia)

P1-20: Learning Visual Object Models on A Robot Using Context and Appearance Cues
Xiang Li (Texas Tech University, USA)
Mohan Sridharan (Texas Tech University, USA)
Catie Meador (Swarthmore College, USA)

P1-21: Envy-Ratio and Average-Nash Social Welfare Optimization in Multiagent Resource Allocation
Trung Thanh Nguyen (Heinrich-Heine-Universität Düsseldorf, Germany)
Jörg Rothe (Heinrich-Heine-Universität Düsseldorf, Germany)

P1-22: Enhancing Robot Perception Using Human Teammates
Jean Oh (Carnegie Mellon University, USA)
Arne Suppe (Carnegie Mellon University, USA)
Anthony Stentz (Carnegie Mellon University, USA)
Martial Hebert (Carnegie Mellon University, USA)

P1-23: Social Agents for Serious Games
Joost van Oijen (Utrecht University, The Netherlands)
Frank Dignum (Utrecht University, The Netherlands)

P1-24: Force-Based Clustering for Transitive Identity Mapping
H. Van Dyke Parunak (Soar Technology, USA)
Sven A. Brueckner (Soar Technology, USA)

P1-25: A New Approach for Continual Planning
Damien Pellier (Université Paris Descartes, France)
Humbert Fiorino (Université Joseph Fourier, France)
Marc Métivier (Université Paris Descartes, France)

P1-26: A Multi-Agent Approach for Decentralized Voltage Regulation in Power Distribution Networks within Distributed Generators
Fenghui Ren (University of Wollongong, Australia)
Minjie Zhang (University of Wollongong, Australia)
Danny Sutanto (University of Wollongong, Australia)

P1-27: Law Enforcement in Norm-Governed Learning Agents
Régis Riveret (Imperial College London, UK)
Giuseppe Contissa (EUI, Italy)
Antonino Rotolo (University of Bologna, Italy)
Jeremy V. Pitt (Imperial College London, UK)

P1-28: Mutation Operators for Cognitive Agent Programs
Sharmila Savarimuthu (University of Otago, New Zealand)
Michael Winikoff (University of Otago, New Zealand)

P1-29: Testing Leverage-Based Trading Strategies Under an Adaptive-Expectations Agent-Based Model
Elton Sbruzzi (University of Essex, UK)
Steve Phelps (University of Essex, UK)

P1-30: Opponent Modeling in a PGM Framework
Nicolaj Søndberg-Jeppesen (Aalborg University, Denmark)
Finn V. Jensen (Aalborg University, Denmark)
Yifeng Zeng (Teesside University, UK)

P1-31: Combining Event- and State-Based Norms
Marina De Vos (University of Bath, UK)
Tina Balke (University of Surrey, UK)
Ken Satoh (National Institute of Informatics, UK)

P1-32: The Innovative Application of Learning Companions in Virtual Singapura
Qiong Wu (Nanyang Technological University, Singapore)
Xiaogang Han (Nanyang Technological University, Singapore)
Han Yu (Nanyang Technological University, Singapore)
Zhiqi Shen (Nanyang Technological University, Singapore)
Chunyan Miao (Nanyang Technological University, Singapore)

Wednesday May 8: Demo Session 1

D1-1: Roundabout Collision Avoidance for Multiple Robots Based on Minimum Enclosing Rectangle
Fan Liu(Auckland University of Technology, New Zealand)
Ajit Narayanan(Auckland University of Technology, New Zealand)

D1-2: An MAS Negotiation Support Tool for Schema Matching
Hung Quoc Viet Nguyen (École Polytechnique Fédérale de Lausanne, Switzerland)
Xuan Hoai Luong (École Polytechnique Fédérale de Lausanne, Switzerland)
Zoltán Miklós (Université de Rennes 1, France)
Tho Quan Thanh (Ho Chi Minh City University of Technology, Vietnam)
Karl Aberer (École Polytechnique Fédérale de Lausanne, Switzerland)

D1-3: A Task Complexity Assessment Tool for Single-Operator Multi-Robot Control Scenarios
A. Tuna Özgelen (The City University of New York - The Graduate Center, USA)
Elizabeth Sklar (The City University of New York - Brooklyn College, USA)

D1-4: Traveller: An Intercultural Training System with Intelligent Agents
Samuel Mascarenhas (INESC-ID / Instituto Superior Técnico, Portugal)
André Silva (INESC-ID / Instituto Superior Técnico, Portugal)
Ana Paiva (INESC-ID / Instituto Superior Técnico, Portugal)
Ruth Aylett (Herriot-Watt University, Scotland Uk)
Felix Kistler (Augsburg University, Germany)
Elisabeth André (Augsburg University, Germany)
Nick Degens (Wageningen University, The Netherlands)
Gert Jan Hofstede (Wageningen University, The Netherlands)
Arvid Kappas (Jacobs University, Germany)

D1-5: A Collaborative Activity for Evaluating HAT-COM: Human-Agent Teamwork Communication Model
Nader Hanna (Macquarie University, Australia)
Deborah Richards (Macquarie University, Australia)

D1-6: Volttron: An Agent Platform for the Smart Grid
Jereme Haack (Pacific Northwest National Laboratory, USA)
Bora Akyol (Pacific Northwest National Laboratory, USA)
Brandon Carpenter (Pacific Northwest National Laboratory, USA)
Cody Tews (Pacific Northwest National Laboratory, USA)
Lance Foglesong (Pacific Northwest National Laboratory, USA)

D1-7: Divas 4.0: A Framework for the Development of Situated Multi-Agent Based Simulation Systems
Frederico Araujo (University of Texas at Dallas, USA)
Junia Valente (University of Texas at Dallas, USA)
Mohammad Al-Zinati (University of Texas at Dallas, USA)
Dane Kuiper (University of Texas at Dallas, USA)
Rym Zalila-Wenkstern (University of Texas at Dallas, USA)

D1-8: Argtrust: Decision Making with Information From Sources of Varying Trustworthiness

Simon Parsons (The City University of New York - Brooklyn College, USA)
Elizabeth Sklar (The City University of New York - Brooklyn College, USA)
Jordan Salvit (The City University of New York - The Graduate Center, USA)
Holly Wall (The City University of New York - Brooklyn College, USA)
Zimi Li (The City University of New York - The Graduate Center, USA)

Wed. 13:50-15:30 Session: A2 - Robotics II

Room: Capitol Ballroom Chair: Karl Tuyls

Collective Transport of Complex Objects by Simple Robots: Theory and Experiments *(P1-36)*
Michael Rubenstein (Harvard University, USA)
Adrian Cabrera (Harvard University & EPFL, USA)
Justin Werfel (Harvard University, USA)
Golnaz Habibi (Rice University, USA)
James McLurkin (Rice University, USA)
Radhika Nagpal (Harvard University, USA)

A Decision Network Based Framework for Multiagent Coalition Formation *(P2-35)*
Sayan D. Sen (Vanderbilt University, USA)
Julie A. Adams (Vanderbilt University, USA)

Bayesian Interaction Shaping: Learning to Influence Strategic Interactions in Mixed Robotic Domains *(P1-37)*
Aris Valtazanos (University of Edinburgh, UK)
Subramanian Ramamoorthy (University of Edinburgh, UK)

Achievable Push-Manipulation for Complex Passive Mobile Objects Using Past Experience *(P3-46)*
Tekin Meriçli (Boğaziçi University, Turkey)
Manuela Veloso (Carnegie Mellon University, USA)
H. Levent Akin (Boğaziçi University, Turkey)

Multi-UAV Motion Planning for Guaranteed Search *(P4-37)*
Andreas Kolling (Linköping University, Sweden)
Alexander Kleiner (Linköping University, Sweden)

Wed. 13:50-15:30 Session: B2 - Game Theory II

Room: Minnesota Ballroom Chair: Pradeep Varakantham

Avoid Fixed Pricing: Consume Less, Earn More, Make Clients Happy *(P2-36)*
Reshef Meir (The Hebrew University of Jerusalem, Israel)
Jeffrey S. Rosenschein (The Hebrew University of Jerusalem, Israel)

A Parameterized Family of Equilibrium Profiles for Three-Player Kuhn Poker *(P1-38)*
Duane Szafron (University of Alberta, Canada)
Richard Gibson (University of Alberta, Canada)
Nathan Sturtevant (University of Denver, USA)

Online Implicit Agent Modelling *(P1-39)*
Nolan Bard (University of Alberta, Canada)
Michael Johanson (University of Alberta, Canada)
Neil Burch (University of Alberta, Canada)
Michael Bowling (University of Alberta, Canada)

A Study on the Stability and Efficiency of Graphical Games with Unbounded Treewidth *(P3-47)*
Anisse Ismaili (LIP6-UPMC, France)
Evripidis Bampis (LIP6-UPMC, France)
Nicolas Maudet (LIP6-UPMC, France)
Patrice Perny (LIP6-UPMC, France)

Evaluating State-Space Abstractions in Extensive-Form Games *(P2-37)*
Michael Johanson (University of Alberta, Canada)
Neil Burch (University of Alberta, Canada)
Richard Valenzano (University of Alberta, Canada)
Michael Bowling (University of Alberta, Canada)

Wed. 13:50-15:30 Session: C2 - Social Choice II

Room: Governors 3W-4 Chair: Vincent Conitzer

Achieving Fully Proportional Representation is Easy in Practice *(P3-48)*
Piotr Skowron (University of Warsaw, Poland)
Piotr Faliszewski (AGH University of Science and Technology, Poland)
Arkadii Slinko (University of Auckland, New Zealand)

The Complexity of Losing Voters *(P3-49)*
Tomasz Perek (AGH University of Science and Technology, Poland)
Piotr Faliszewski (AGH University of Science and Technology, Poland)
Maria Silvia Pini (University of Padova, Italy)
Francesca Rossi (University of Padova, Italy)

On Elections with Robust Winners *(P3-50)*
Dmitry Shiryaev (Nanyang Technological University, Singapore)
Lan Yu (Nanyang Technological University, Singapore)
Edith Elkind (Nanyang Technological University, Singapore)

Manipulating Two Stage Voting Rules *(P2-38)*
Nina Narodytska (NICTA and UNSW, Australia)
Toby Walsh (NICTA and UNSW, Australia)

Coalitional Manipulation for Schulze's Rule *(P2-39)*
Serge Gaspers (UNSW and NICTA, Australia)
Thomas Kalinowski (University of Rostock, Germany)
Nina Narodytska (NICTA and UNSW, Australia)
Toby Walsh (NICTA and UNSW, Australia)

Wed. 13:50-15:30 Session: D2 - Virtual Agents I

Room: Governors 2-3E Chair: Stacy Marsella

Shakespearean Spatial Rules *(P3-51)*
Christine Talbot (University of North Carolina at Charlotte, USA)
G. Michael Youngblood (University of North Carolina at Charlotte, USA)

NetworkING: Using Character Relationships for Interactive Narrative Generation *(P1-40)*
Julie Porteous (Teesside University, UK)
Fred Charles (Teesside University, UK)
Marc Cavazza (Teesside University, UK)

Efficient Intent-Based Narrative Generation Using Multiple Planning Agents *(P4-38)*
Jonathan Teutenberg (Independent Researcher, UK)
Julie Porteous (Teesside University, UK)

Virtual Agent Perception Combination in Multi Agent Based Systems *(P2-40)*
Dane M. Kuiper (University of Texas at Dallas, USA)
Rym Z. Wenkstern (University of Texas at Dallas, USA)

Laugh-Aware Virtual Agent and Its Impact on User Amusement *(P2-41)*
Radosław Niewiadomski (Telecom ParisTech, France)
Jennifer Hofmann (Universität Zurich, Switzerland)
Jérôme Urbain (Université de Mons, Belgium)
Tracey Platt (Universität Zurich, Switzerland)
Johannes Wagner (Universität Augsburg, Germany)
Bilal Piot (Supelec, France)
Huseyin Cakmak (Université de Mons, Belgium)
Sathish Pammi (Telecom ParisTech, France)
Tobias Baur (Universität Augsburg, Germany)
Stephane Dupont (Universite de Mons, Belgium)
Matthieu Geist (Supelec, France)
Florian Lingenfelser (Universität Augsburg, Germany)
Gary McKeown (The Queen's University of Belfast, Gt Britain)
Olivier Pietquin (Supelec, France)
Willibald Ruch (Universität Zürich, Switzerland)

Wed. 13:50-15:30 Session: E2 - Challenges and Visions

Room: Governors 1 Chair: Jeff Rosenschein

Systems Resilience: A Challenge Problem for Dynamic Constraint-Based Agent Systems *(P2-42)*
Nicolas Schwind (National Institute of Informatics, Japan)
Tenda Okimoto (Transdisciplinary Research Integration Center, Japan)
Katsumi Inoue (National Institute of Informatics, Japan)
Hei Chan (Transdisciplinary Research Integration Center, Japan)
Tony Ribeiro (The Graduate University for Advanced Studies, Japan)
Kazuhiro Minami (Transdisciplinary Research Integration Center, Japan)
Hiroshi Maruyama (Institute of Statistical Mathematics, Japan)

Enabling Generative, Emergent Artificial Culture *(P1-41)*
Jaroslaw Kochanowicz (Nanyang Technological University, Singapore)
Tan Ah-Hwee (Nanyang Technological University, Singapore)
Daniel Thalmann (Nanyang Technological University, Singapore)

Collaborative Health Care Plan Support *(P3-52)*
Ofra Amir (Harvard University, USA)
Barbara J. Grosz (Harvard University, USA)
Edith Law (Harvard University, USA)
Roni Stern (Harvard University, USA)

A Comprehensive Approach to Trust Management *(P4-39)*
Sandip Sen (University of Tulsa, USA)

Curing Robot Autism: A Challenge *(P4-40)*
Gal A. Kaminka (Bar Ilan University, Israel)

Wed. 13:50-15:30 Session: F2 - Innovative Applications II

Room: Governors 5 Chair: Bo An

Optimal Patrol Strategy for Protecting Moving Targets with Multiple Mobile Resources *(P1-42)*
Fei Fang (University of Southern California, USA)
Albert Xin Jiang (University of Southern California, USA)
Milind Tambe (University of Southern California, USA)

TESLA: An Energy-Saving Agent That Leverages Schedule Flexibility *(P2-43)*
Jun-young Kwak (University of Southern California, USA)
Pradeep Varakantham (Singapore Management University, Singapore)
Rajiv Maheswaran (University of Southern California, USA)
Yu-Han Chang (University of Southern California, USA)
Milind Tambe (University of Southern California, USA)
Burcin Becerik-Gerber (University of Southern California, USA)
Wendy Wood (University of Southern California, USA)

Complex-Demand Knapsack Problems and Incentives in AC Power Systems *(P1-43)*
Lan Yu (Nanyang Technological University, Singapore)
Chi-Kin Chau (Masdar Institute of Science and Technology, UAE)

AgentSwitch: Towards Smart Energy Tariff Selection *(P1-44)*
Sarvapali D. Ramchurn (University of Southampton, UK)
Michael A. Osborne (University of Oxford, UK)
Oliver Parson (University of Southampton, UK)
Talal Rahwan (University of Southampton, UK)
Sasan Maleki (University of Southampton, UK)
Steve Reece (University of Oxford, UK)
Trung D. Huynh (University of Southampton, UK)
Muddasser Alam (University of Southampton, UK)
Joel E. Fischer (University of Nottingham, UK)
Tom Rodden (University of Nottingham, UK)
Luc Moreau (University of Southampton, UK)
Stephen Roberts (University of Oxford, UK)

Two-Sided Online Markets for Electric Vehicle Charging *(P2-44)*
Enrico H. Gerding (University of Southampton, UK)
Sebastian Stein (University of Southampton, UK)
Valentin Robu (University of Southampton, UK)
Dengji Zhao (University of Western Sydney, Australia)
Nicholas R. Jennings (University of Southampton, UK)

Wednesday May 8, Afternoon Poster Session 2

P2-1: AUML Protocols: From Specification to Detailed Design
Yoosef Abushark (RMIT University, Australia)
John Thangarajah (RMIT University, Australia)

P2-2: First Impressions in User-Agent Encounters: the Impact of an Agent's Non-verbal Behavior on Users' Relational Decisions
Angelo Cafaro (Reykjavik University, Iceland)
Hannes H. Vilhjálmsson (Reykjavik University, Iceland)
Timothy Bickmore (Northeastern University, USA)
Dirk Heylen (University of Twente, The Netherlands)
Daniel Schulman (Northeastern University, USA)

P2-3: Benchmarking Smart Spaces Through Autonomous Virtual Agents
Mario Caruso (Sapienza University, Italy)
Francesco Leotta (Sapienza University, Italy)
Massimo Mecella (Sapienza University, Italy)
Stavros Vassos (Sapienza University, Italy)

P2-4: Embedding Agents in Business Applications Using Enterprise Integration Patterns
Stephen Cranefield (University of Otago, New Zealand)
Surangika Ranathunga (University of Otago, New Zealand)

P2-5: Opposites Repel: The Effect of Incorporating Repulsion on Opinion Dynamics in the Bounded Confidence Model
Chad Crawford (The University of Tulsa, USA)
Logan Brooks (The University of Tulsa, USA)
Sandip Sen (The University of Tulsa, USA)

P2-6: Lie to Me: Virtual Agents That Lie
João Dias (Universidade Técnica de Lisboa, Instituto Superior Técnico, Portugal)
Henrique Reis (Universidade Técnica de Lisboa, Instituto Superior Técnico, Portugal)
Ana Paiva (Universidade Técnica de Lisboa, Instituto Superior Técnico, Portugal)

P2-7: Dynamic Facts in Large Team Information Sharing
Adam Eck (University of Nebraska-Lincoln, USA)
Leen-Kiat Soh (University of Nebraska-Lincoln, USA)

P2-8: Blame on Them, Shame on Us: Combining Affective and Normative Behaviour in Intelligent Virtual Agents
Nuno Ferreira (Technical University of Lisbon, Portugal)
Samuel Mascarenhas (Technical University of Lisbon, Portugal)
Ana Paiva (Technical University of Lisbon, Portugal)
John Mc Breen (Wageningen University, The Netherlands)
Nick Degens (Wageningen University, The Netherlands)
Gert Jan Hofstede (Wageningen University, The Netherlands)
Gennaro Di Tosto (Utrecht University, The Netherlands)
Frank Dignum (Utrecht University, The Netherlands)
Giulia Andrighetto (ISCT-CNR, Italy)
Rosaria Conte (ISCT-CNR, Italy)

P2-9: Extensive-form Games with Heterogeneous Populations
Nicola Gatti (Politecnico di Milano, Italy)
Fabio Panozzo (Politecnico di Milano, Italy)
Marcello Restelli (Politecnico di Milano, Italy)

P2-10: Telescope Management for Satellite Tracking: A Decentralized Approach
Feyza Merve Hafizoğlu (University of Tulsa, USA)
Roger Mailler (University of Tulsa, USA)

P2-11: Exploiting Structure and Utilizing Agent-Centric Rewards to Promote Coordination in Large Multiagent Systems
Chris HolmesParker (Oregon State University, USA)
Adrian Agogino (NASA Ames Research Center, USA)
Kagan Tumer (Oregon State University, USA)

P2-12: Learning to Control Complex Tensegrity Robots
Atil Iscen (Oregon State University, USA)
Adrian Agogino (UC Santa Cruz / NASA Ames, USA)
Vytas Sun Spiral (SGT Inc. / NASA Ames, USA)
Kagan Tumer (Oregon State University, USA)

P2-13: RMASbench: Benchmarking Dynamic Multi-Agent Coordination in Urban Search and Rescue
Alexander Kleiner (Linköping University, Sweden)
Alessandro Farinelli (University of Verona, Italy)
Sarvapali Ramchurn (University of Southampton, UK)
Bing Shi (Wuhan University of Technology, China)
Fabio Maffioletti (University of Verona, Italy)
Riccardo Reffato (University of Verona, Italy)

P2-14: MAMA: Multi-Agent MAnagement of Crowds to Avoid Stampedes in Long Queues
Sindhu Kolli (IIIT Hyderabad, India)
Kamalakar Karlapalem (IIIT Hyderabad, India)

P2-15: Governing Intelligent Virtual Agent Behaviour with Norms
Jeehang Lee (University of Bath, UK)
Tingting Li (University of Bath, UK)
Marina De Vos (University of Bath, UK)
Julian Padget (University of Bath, UK)

P2-16: A BDI Game Master Agent for Computer Role-Playing Games
Bao Vo Luong (RMIT University, Australia)
John Thangarajah (RMIT University, Australia)
Fabio Zambetta (RMIT University, Australia)
Mahmud Hasan (RMIT University, Australia)

P2-17: JIAC V - A MAS Framework for Industrial Applications
Marco Lützenberger (Technical University of Berlin)
Tobias Küster (Technical University of Berlin, Germany)
Thomas Konnerth (Technical University of Berlin, Germany)
Alexander Thiele (Technical University of Berlin, Germany)
Nils Masuch (Technical University of Berlin, Germany)
Axel Hessler (Technical University of Berlin, Germany)
Jan Keiser (Technical University of Berlin)
Michael Burkhardt (Technical University of Berlin, Germany)
Silvan Kaiser (Technical University of Berlin, Germany)
Sahin Albayrak (Technical University of Berlin, Germany)

P2-18: Distributed Problem Solving in Geometrically-Structured Constraint Networks
Roger Mailler (University of Tulsa, USA)
Huimin Zheng (University of Tulsa, USA)

P2-19: The Price of Independence in Simultaneous Auctions
BrandonA. Mayer (Brown University, USA)
Eric Sodomka (Brown University, USA)
Amy Greenwald (Brown University, USA)

P2-20: Complexity of Optimal Lobbying in Threshold Aggregation
Ilan Nehama (The Hebrew University of Jerusalem, Israel)

P2-21: Discovery, Utilization, and Analysis of Credible Threats for 2X2 Incomplete Information Games in TOM
Jolie Olsen (University of Tulsa, USA)
Sandip Sen (University of Tulsa, USA)

P2-22: Multi-Objective Variable Elimination for Collaborative Graphical Games
Diederik M. Roijers (University of Amsterdam, The Netherlands)
Shimon Whiteson (University of Amsterdam, The Netherlands)
Frans A. Oliehoek (Maastricht University, The Netherlands)

P2-23: MANCaLog: A Logic for Multi-Attribute Network Cascades
Paulo Shakarian (U.S. Military Academy, USA)
Gerardo I. Simari (University of Oxford, UK)
Robert Schroeder (Naval Postgraduate School, USA)

P2-24: Towards a Truck-Driver Model Using a Hysteresis Based Analysis and Verification Approach
Lancelot Six (IFSTTAR, France)
Zahia Guessoum (Lip6, France)
Julien Saunier (IFSTTAR, France)
Sio-Song Ieng (IFSTTAR, France)

P2-25: Goal Velocity Obstacles for Spatial Navigation of Multiple Virtual Agents
Jamie Snape (University of North Carolina at Chapel Hill, USA)
Dinesh Manocha (University of North Carolina at Chapel Hill, USA)

P2-26: Security Games with Contagion: Handling Asymmetric Information
Jason Tsai (University of Southern California, USA)
Yundi Qian (University of Southern California, USA)
Yevgeniy Vorobeychik (Sandia National Laboratories, USA)
Christopher Kiekintveld (University of Texas at El Paso, USA)
Milind Tambe (University of Southern California, USA)

P2-27: Decentralized Semantic Coordination Through Belief Propagation
George A. Vouros (University of Piraeus, Greece)

P2-28: Time Optimized Multi-Agent Path Planning Using Guided Iterative Prioritized Planning
Wenjie Wang (Nanyang Technological University, Singapore)
Wooi Boon Goh (Nanyang Technological University, Singapore)

P2-29: On the Complexity of Undominated Core and Farsighted Solution Concepts in Coalitional Games
Yusen Zhan (Nanjing University, China)
Jun Wu (Hohai University, China)
Chongjun Wang (Nanjing University, China)
Meilin Liu (Wright State University, USA)
Junyuan Xie (Nanjing University, China)

Wednesday May 8: Demo Session 2

D2-1: MUST: MUlti Agent Simulation of Multi-Modal Urban Traffic
Deepika Pathania (International Institute of Information Technology, India)
Bharath Vissapragada (International Institute of Information Technology, India)
Nahil Jain (International Institute of Information Technology, India)
Apeksha Khare (International Institute of Information Technology, India)
Soujanya Lanka (International Institute of Information Technology, India)
Kamalakar Karlapalem (International Institute of Information Technology, India)

D2-2: My Dream Theatre
Henrique Campos (INESC-ID and Instituto Superior Técnico - UTL, Portugal)
Joana Campos (INESC-ID and Instituto Superior Técnico - UTL, Portugal)
João Cabral (INESC-ID and Instituto Superior Técnico - UTL, Portugal)
Carlos Martinho (INESC-ID and Instituto Superior Técnico - UTL, Portugal)
Jeppe Herlev Nielsen (Serious Games Interactive, Denmark)
Ana Paiva (INESC-ID and Instituto Superior Técnico - UTL, Portugal)

D2-3: IRON: A Machine for the Automated Synthesis of Normative Systems
Javier Morales (University of Barcelona & Spanish Council of Scientific Research, Spain)
Maite Lopez-Sanchez (University of Barcelona, Spain)
Juan A. Rodriguez-Aguilar (IIIA-CSIC, Spain)
Michael Wooldridge (University of Oxford, UK)
Wamberto Vasconcelos (University of Aberdeen, UK)

D2-4: Simulating Household Activities to Lower Consumption Peaks
Edouard Amouroux (LIP6, UPMC, France)
François Sempé (Francois Sempé AE, France)
Thomas Huraux (LIP6 UPMC - EDF R&D, France)
Nicolas Sabouret (LIMSI CNRS - SUPELEC, France)
Yvon Haradji (EDF R&D, France)

D2-5: A Social Network Interface to an Interactive Narrative
Julie Porteous (Teesside University, UK)
Fred Charles (Teesside University, UK)
Marc Cavazza (Teesside University, UK)

D2-6: Robin, an Empathic Virtual Buddy for Social Support
Janneke M. van der Zwaan (Delft University of Technology, The Netherlands)
Virginia Dignum (Delft University of Technology, The Netherlands)

D2-7: RMASBench: A Benchmarking System for Multi-Agent Coordination in Urban Search and Rescue
Fabio Maffioletti (University of Verona, Italy)
Riccardo Reffato (University of Verona, Italy)
Alessandro Farinelli (University of Verona, Italy)
Alexander Kleiner (Linköping University, Sweden)
Sarvapali Ramchurn (University of Southampton, UK)
Bing Shi (Wuhan University of Technology, China)

D2-8: StiCo in Action
Bijan Ranjbar-Sahraei (Maastricht University, The Netherlands)
Sjriek Alers (Maastricht University, The Netherlands)
Karl Tuyls (Maastricht University, The Netherlands)
Gerhard Weiss (Maastricht University, The Netherlands)

Thu. 11:00-12:40 Session: A3 - Robotics III

Room: Capitol Ballroom Chair: Paul Scerri

Push and Rotate: Cooperative Multi-Agent Path Planning *(P1-45)*
Boris de Wilde (Delft University of Technology, The Netherlands)
Adriaan W. ter Mors (Delft University of Technology, The Netherlands)
Cees Witteveen (Delft University of Technology, The Netherlands)

Event-Processing in Autonomous Robot Programming *(P2-45)*
Pouyan Ziafati (University of Luxembourg & Utrecht University, Luxembourg)
Mehdi Dastani (Utrecht University, The Netherlands)
John-Jules Meyer (Utrecht University, The Netherlands)
Leendert van der Torre (University of Luxembourg, Luxembourg)

Cooperative Control and Modeling for Narrow Passage Traversal with an Ornithopter MAV and Lightweight Ground Station *(P1-46)*
Ryan C. Julian (University of California, Berkeley, USA)
Cameron J. Rose (University of California, Berkeley, USA)
Humphrey Hu (Carnegie Mellon University, USA)
Ronald S. Fearing (University of California, Berkeley, USA)

Synergy Graphs for Configuring Robot Team Members *(P2-46)*
Somchaya Liemhetcharat (Carnegie Mellon University, USA)
Manuela Veloso (Carnegie Mellon University, USA)

Speeding-up Reinforcement Learning Through Abstraction and Transfer Learning *(P1-47)*
Marcelo Li Koga (Universidade de São Paulo, Brazil)
Valdinei Freire da Silva (Universidade de São Paulo, Brazil)
Fabio Gagliardi Cozman (Universidade de São Paulo, Brazil)
Anna Helena Reali Costa (Universidade de São Paulo, Brazil)

Thu. 11:00-12:40 Session: B3 - Game Theory III

Room: Minnesota Ballroom Chair: Jacob Crandall

Stable Marriage and Roommate Problems with Individual-Based Stability *(P1-48)*
Haris Aziz (NICTA and University of New South Wales, Australia)

Eliciting High Quality Feedback from Crowdsourced Tree Networks Using Continuous Scoring Rules *(P4-41)*
Ratul Ray (Indian Institute of Science, India)
Rohith D. Vallam (Indian Institute of Science, India)
Narahari Y. (Indian Institute of Science, India)

Matchings with Externalities and Attitudes *(P3-53)*
Simina Brânzei (Aarhus University, Denmark)
Tomasz Michalak (Oxford University and Warsaw University, UK & Poland)
Talal Rahwan (University of Southampton, UK)
Kate Larson (University of Waterloo, Canada)
Nicholas R. Jennings (University of Southampton, UK)

Efficient Parking Allocation as Online Bipartite Matching with Posted Prices *(P3-54)*
Reshef Meir (The Hebrew University of Jerusalem, Israel)
Yiling Chen (Harvard University, USA)
Michal Feldman (Harvard University & The Hebrew University of Jerusalem, USA)

False-Name-Proof Matching *(P2-47)*
Taiki Todo (Duke University, USA)
Vincent Conitzer (Duke University, USA)

Thu. 11:00-12:40 Session: C3 - Social & Organizational Structure

Room: Governors 2-3E Chair: Cristiano Castelfranchi

Strategic Considerations in the Design of Committees *(P4-42)*
Edith Elkind (Nanyang Technological University, Singapore)
Dmitrii Pasechnik (Nanyang Technological University, Singapore)
Michael Wooldridge (University of Oxford, UK)

Learning Influence in Complex Social Networks *(P3-55)*
Henry Franks (University of Warwick, UK)
Nathan Griffiths (University of Warwick, UK)
Sarabjot Singh Anand (Algorithmic Insight, India)

On the Tradeoff Between Economic Efficiency and Strategyproofness in Randomized Social Choice *(P2-48)*
Haris Aziz (NICTA and UNSW, Australia)
Felix Brandt (Technische Universität München, Germany)
Markus Brill (Technische Universität München, Germany)

Organizational Design Principles and Techniques for Decision-Theoretic Agents *(P3-56)*
Jason Sleight (University of Michigan, USA)
Edmund H. Durfee (University of Michigan, USA)

Designing Social Choice Mechanisms Using Machine Learning *(P1-49)*
Lirong Xia (Harvard University, USA)

Thu. 11:00-12:40 Session: D3 - Auction & Mechanism Design I

Room: Governors 1 Chair: Enrico Gerding

Ishikawa Play *(P2-49)*
Yoad Lewenberg (The Hebrew University of Jerusalem, Israel)
Zinovi Rabinovich (Mobileye Vision Technologies Ltd, Israel)
Jeffrey S. Rosenschein (The Hebrew University of Jerusalem, Israel)

Which Mechanism for Sponsored Search Auctions with Externalities? *(P4-43)*
Nicola Gatti (Politecnico di Milano, Italy)
Marco Rocco (Politecnico di Milano, Italy)

Using Lotteries to Approximate the Optimal Revenue *(P1-50)*
Paul W. Goldberg (University of Liverpool, UK)
Carmine Ventre (Teesside University, UK)

Redistribution in Online Mechanisms *(P4-44)*
Victor Naroditskiy (University of Southampton, UK)
Sofia Ceppi (Politecnico di Milano, Italy)
Valentin Robu (University of Southampton, UK)
Nicholas R. Jennings (University of Southampton, UK)

Cooperative Energy Exchange for the Efficient Use of Energy and Resources in Remote Communities *(P4-45)*
Muddasser Alam (University of Southampton, UK)
Sarvapali D. Ramchurn (University of Southampton, UK)
Alex Rogers (University of Southampton, UK)

Thu. 11:00-12:40 Session: E3 - Trust, Reliability & Reputation

Room: Governors 3W-4 Chair: Minjie Zhang

A Trust Model Stemmed from the Diffusion Theory for Opinion Evaluation *(P4-46)*
Hui Fang (Nanyang Technological University, Singapore)
Jie Zhang (Nanyang Technological University, Singapore)
Nadia M. Thalmann (Nanyang Technological University, Singapore)

An Evolutionary Model for Constructing Robust Trust Networks *(P4-47)*
Siwei Jiang (Nanyang Technological University, Singapore)
Jie Zhang (Nanyang Technological University, Singapore)
Yew-Soon Ong (Nanyang Technological University, Singapore)

A Fuzzy Logic Based Reputation Model Against Unfair Ratings *(P1-51)*
Siyuan Liu (Nanyang Technological University, Singapore)
Han Yu (Nanyang Technological University, Singapore)
Chunyan Miao (Nanyang Technological University, Singapore)
Alex C. Kot (Nanyang Technological University, Singapore)

Trust-Based Fusion of Untrustworthy Information in Crowdsourcing Applications *(P1-52)*
Matteo Venanzi (University of Southampton, UK)
Alex Rogers (University of Southampton, UK)
Nicholas R. Jennings (University of Southampton, UK)

Reasoning about Uncertain Information and Conflict Resolution Through Trust Revision *(P1-53)*
Murat Şensoy (University of Aberdeen & Ozyegin University, UK & Turkey)
Achille Fokoue (IBM T.J. Watson Research Center, USA)
Jeff Z. Pan (University of Aberdeen, UK)
Timothy J. Norman (University of Aberdeen, UK)
Yuqing Tang (Carnegie Mellon University, USA)
Nir Oren (University of Aberdeen, UK)
Katia Sycara (Carnegie Mellon University, USA)

Thu. 11:00-12:40 Session: F3 - Formal Approaches

Room: Governors 5 Chair: Birna v. Riemsdijk

Evolving Protocols and Agents in Multiagent Systems *(P4-48)*
Scott N. Gerard (North Carolina State University, USA)
Munindar P. Singh (North Carolina State University, USA)

Baseline: Practical Control Variates for Agent Evaluation in Zero-Sum Domains *(P2-50)*
Joshua Davidson (University of Alberta, Canada)
Christopher Archibald (University of Alberta, Canada)
Michael Bowling (University of Alberta, Canada)

Situational Preferences for BDI Plans *(P4-49)*
Lin Padgham (RMIT University, Australia)
Dhirendra Singh (RMIT University, Australia)

Characterizing and Aggregating Agent Estimates *(P2-51)*
H. Van Dyke Parunak (Soar Technology, USA)
Sven A. Brueckner (Soar Technology, USA)
Lu Hong (Loyola University Chicago, USA)
Scott Page (University of Michigan, USA)
Richard Rohwer (SRI, USA)

ParaMoise: Increasing Capabilities of Parallel Execution and Reorganization in an Organizational Model *(P4-50)*
Mateusz Guzek (University of Luxembourg, Luxembourg)
Grégoire Danoy (University of Luxembourg, Luxembourg)
Pascal Bouvry (University of Luxembourg, Luxembourg)

Thursday May 9, Morning Poster Session 3

P3-1: Benchmarking Communication in Actor- and Agent-Based Languages
Rafael C. Cardoso (FACIN-PUCRS, Brazil)
Jomi F. Hübner (DAS-UFSC, Brazil)
Rafael H. Bordini (FACIN-PUCRS, Brazil)

P3-2: Predicting Migration and Opinion Adoption Patterns in Agent Communities
Sreerupa Chatterjee (University of Tulsa, USA)
Feyza Merve Hafizoğlu(University of Tulsa, USA)
Sandip Sen (University of Tulsa, USA)

P3-3: Learning in Real-Time in Repeated Games Using Experts
Jacob W. Crandall (Masdar Institute of Science and Technology, UAE)

P3-4: Addressing Hard Constraints in the Air Traffic Problem through Partitioning and Difference Rewards
William Curran (Oregon State University, USA)
Adrian Agogino (NASA Ames Research Center, USA)
Kagan Tumer (Oregon State University, USA)

P3-5: Voting with Partial Information: What Questions to Ask?
Ning Ding (Hong Kong University of Science and Technology, China)
Fangzhen Lin (Hong Kong University of Science and Technology, China)

P3-6: Overcoming Erroneous Domain Knowledge in Plan-Based Reward Shaping
Kyriakos Efthymiadis (University of York, UK)
Sam Devlin (University of York, UK)
Daniel Kudenko (University of York, UK)

P3-7: An Empirical Study of Trading Agent Robustness
Shai Hertz (Tel Aviv University, Israel)
Mariano Schain (Tel Aviv University, Israel)
Yishay Mansour (Tel Aviv University, Israel)

P3-8: Decentralized Coordination via Task Decomposition and Reward Shaping
Atil Iscen (Oregon State University, USA)
Kagan Tumer (Oregon State University, USA)

P3-9: Scheduling Mobile Exploration Tasks for Environment Learning
Max Korein (Carnegie Mellon University, USA)
Brian Coltin (Carnegie Mellon University, USA)
Manuela Veloso (Carnegie Mellon University, USA)

P3-10: Concurrent Reinforcement Learning as a Rehearsal for Decentralized Planning Under Uncertainty
Landon Kraemer (The University of Southern Mississippi, USA)
Bikramjit Banerjee (The University of Southern Mississippi, USA)

P3-11: Robustness Evaluation of Incentive Mechanisms
Yuan Liu (Nanyang Technological University, Singapore)
Jie Zhang (Nanyang Technological University, Singapore)

P3-12: Learning in Non-Stationary MDPs as Transfer Learning
M. M. Hassan Mahmud (University of Edinburgh, UK)
Subramanian Ramamoorthy (University of Edinburgh, UK)

P3-13: Multiagent POMDPs with Asynchronous Execution
João V. Messias (Instituto Superior Técnico - Universidade Técnica de Lisboa, Portugal)
Matthijs T. J. Spaan (Delft University of Technology, The Netherlands)
Pedro U. Lima (Instituto Superior Técnico - Universidade Técnica de Lisboa, Portugal)

P3-14: Model Based Approach to Detect Emergent Behavior in Multi-Agent Systems
Mohammad Moshirpour (University of Calgary, Canada)
Nariman Mani (Carleton University, Canada)
Armin Eberlein (American University of Sharjah, UAE)
Behrouz H. Far (University of Calgary, Canada)

P3-15: Applying Distributed Optimization for QoS-Security Tradeoff in a Distributed Information System
Hala Mostafa (Raytheon BBN Technologies, USA)
Nathaniel Soule (Raytheon BBN Technologies, USA)
Nicholas Hoff (Raytheon BBN Technologies, USA)
Partha Pal (Raytheon BBN Technologies, USA)
Patrick Hurley (Air Force Research Laboratory, USA)

P3-16: Introducing Alarms in Adversarial Patrolling Games
Enrique Munoz de Cote (National Institute of Astrophysics, Optics and Electronics, Mexico)
Ruben Stranders (University of Southampton, UK)
Nicola Basilico (Politecnico di Milano, Italy)
Nicola Gatti (Politecnico di Milano, Italy)
Nick Jennings (University of Southampton, UK)

P3-17: Maximizing Matching in Double-Sided Auctions
Jinzhong Niu (The City College, The City University of New York, USA)
Simon Parsons (Brooklyn College, The City University of New York, USA)

P3-18: Dynamic Information Transfer and Sharing Model in Agent Based Evacuation Simulations
Masaru Okaya (Meijo University, Japan)
Mary Southern (University of Minnesota, USA)
Tomoichi Takahashi (Meijo University, Japan)

P3-19: On the Rationality of Cycling in the Theory of Moves Framework
Jolie Olsen (University of Tulsa, USA)
Sandip Sen (University of Tulsa, USA)

P3-20: Bases of Social Power for Agents
Gonçalo Pereira (INESC-ID and Instituto Superior Técnico and Universidade Técnica de Lisboa, Portugal)
Rui Prada (INESC-ID and Instituto Superior Técnico and Universidade Técnica de Lisboa, Portugal)
Pedro A. Santos (INESC-ID and Instituto Superior Técnico and Universidade Técnica de Lisboa, Portugal)

P3-21: Deliberating about Voting Dimensions
Daniele Porello (Laboratory for Applied Ontology (ISTC-CNR), Italy)

P3-22: Graphical Models in Continuous Domains for Multiagent Reinforcement Learning
Scott Proper (Oregon State University, USA)
Kagan Tumer (Oregon State University, USA)

P3-23: Segmentation of Hand Gestures Using Motion Capture Data
Ajay Sundar Ramakrishnan (University of California Davis, USA)
Michael Neff (University of California Davis, USA)

P3-24: A Macroscopic Model for Multi-Robot Stigmergic Coverage
Bijan Ranjbar-Sahraei (Maastricht University, The Netherlands)
Gerhard Weiss (Maastricht University, The Netherlands)
Karl Tuyls (Maastricht University, The Netherlands)

P3-25: Preferences with Qualitative Thresholds and Methods for Individual and Collective Decisions
Samy Sá (Universidade Federal do Ceará, Brazil)
João Alcântara (Universidade Federal do Ceará, Brazil)

P3-26: Enabling Human-Robot Collaboration via Argumentation
Elizabeth Sklar (City University of New York, USA)
Mohammad Q. Azhar (City University of New York, USA)
Todd Flyr (City University of New York, USA)
Simon Parsons (City University of New York, USA)

P3-27: Social Capital: The Power of Influencers in Networks
Karthik Subbian (University of Minnesota, USA)
Dhruv Sharma (University of Minnesota, USA)
Zhen Wen (IBM T.J. Watson Research Center, USA)
Jaideep Srivastava (University of Minnesota, USA)

P3-28: Planning of Diverse Trajectories for UAV Control Displays
Jan Tožička (FEE CTU in Prague, Czech Rep)
David Šišlák (FEE CTU in Prague, Czech Rep)
Michal Pěchouček (FEE CTU in Prague, Czech Rep)

P3-29: Agent-Based Evolving Societies
Loïs Vanhée (Utrecht Universiteit, The Netherlands)
Jacques Ferber (LIRMM, France)
Frank Dignum (University of Utrecht, The Netherlands)

P3-30: Multi-Agent RRT*: Sampling-based Cooperative Pathfinding
Michal Čáp (Czech Technical University in Prague, Czech Rep)
Peter Novák (Delft University of Technology, The Netherlands)
Jiří Vokřínek (Czech Technical University in Prague, Czech Rep)
Michal Pěchouček (Czech Technical University in Prague, Czech Rep)

P3-31: "What If There Was No Oxygen?": Responding to Hypothetical Questions in an Intelligent Tutoring Agent
Neil Yorke-Smith (American University of Beirut & University of Cambridge, Lebanon)
Stijn Heymans (SRI International, USA)
Vinay Chaudhri (SRI International, USA)

P3-32: Affect Detection from Semantic and Metaphorical Interpretation of Virtual Drama
Li Zhang (University of Northumbria, UK)
John Barnden (University of Birmingham, UK)
Ming Jiang (University of Leeds, UK)

P3-33: Multiagent Negotiation on Multiple Issues with Incomplete Information
Ronghuo Zheng (Carnegie Mellon University, USA)
Nilanjan Chakraborty (Carnegie Mellon University, USA)
Tinglong Dai (Carnegie Mellon University, USA)
Katia Sycara (Carnegie Mellon University, USA)

Thursday May 9: Demo Session 3

D3-1: AgentSwitch: Towards Smart Energy Tariff Selection
Sarvapali D. Ramchurn (University of Southampton, UK)
Michael A. Osborne (University of Oxford, UK)
Oliver Parson (University of Southampton, UK)
Talal Rahwan (University of Southampton, UK)
Sasan Maleki (University of Southampton, UK)
Steve Reece (University of Oxford, UK)
Trung D. Huynh (University of Southampton, UK)
Muddasser Alam (University of Southampton, UK)
Joel E. Fischer (University of Nottingham, UK)
Tom Rodden (University of Nottingham, UK)
Luc Moreau (University of Southampton, UK)
Stephen Roberts (University of Oxford, UK)

D3-2: GAMA: Multi-Level and Complex Environment for Agent-Based Models and Simulations
Alexis Drogoul (UMMISCO, IRD, Vietnam)
Edouard Amouroux (LIP6, UPMC, France)
Philippe Caillou (LRI, Université Paris Sud, France)
Benoit Gaudou (IRIT, Université Toulouse 1, France)
Arnaud Grignard (UMMISCO, IRD, Vietnam)
Nicolas Marilleau (UMMISCO, IRD, France)
Patrick Taillandier (Université Rouen, France)
Maroussia Vavasseur (IRIT, Université Toulouse 1, France)
Duc-An Vo (UMMISCO, IRD, Vietnam)
Jean-Daniel Zucker (UMMISCO, IRD, Vietnam)

D3-3: OctoSLAM: A 3D Mapping Approach to Situational Awareness of Unmanned Aerial Vehicles
Joscha-David Fossel (Maastricht University, The Netherlands)
Daniel Hennes (Maaastricht University, The Netherlands)
Sjriek Alers (Maastricht University, The Netherlands)
Daniel Claes (Maastricht University, The Netherlands)
Karl Tuyls (Maastricht University, The Netherlands)

D3-4: Industrial Process Optimisation with JIAC
Marco Lützenberger (Technical University of Berlin, Germany)
Tobias Küster (Technical University of Berlin, Germany)
Thomas Konnerth (Technical University of Berlin, Germany)
Alexander Thiele (Technical University of Berlin, Germany)
Nils Masuch (Technical University of Berlin, Germany)
Axel Hessler (Technical University of Berlin, Germany)
Jan Keiser (Technical University of Berlin, Germany)
Michael Burkhardt (Technical University of Berlin, Germany)
Silvan Kaiser (Technical University of Berlin, Germany)
Jakob Tonn (Technical University of Berlin, Germany)
Sahin Albayrak (Technical University of Berlin, Germany)

D3-5: Learning Agent Models in SeSAm
Robert Junges (Örebro University, Sweden)
Franziska Klügl (Örebro University, Sweden)

D3-6: Game-Theoretic Patrol Strategies for Transit Systems: The TRUSTS System and Its Mobile App
Samantha Luber (Microsoft, USA)
Zhengyu Yin (University of Southern California, USA)
Francesco Delle Fave (University of Southern California, USA)
Albert Xin Jiang (University of Southern California, USA)
Milind Tambe (University of Southern California, USA)
John P. Sullivan (LA County Sheriff's Department, USA)

D3-7: Diversity Beats Strength? A Hands-on Experience with 9X9 Go
Leandro Soriano Marcolino (University of Southern California, USA)
Douglass Chen (University of Southern California, USA)
Albert Xin Jiang (University of Southern California, USA)
Milind Tambe (University of Southern California, USA)

D3-8: An Argumentation-Based Dialogue System for Human-Robot Collaboration
Mohammad Q. Azhar (Borough of Manhattan Community College, The City University of New York, USA)
Simon Parsons (The Graduate Center & Brooklyn College, The City University of New York, USA)
Elizabeth Sklar (The Graduate Center & Brooklyn College, The City University of New York, USA)

D3-9: HRTeam: A Framework to Support Research on Human/Multi-Robot Interaction
Elizabeth Sklar (The City University of New York - Brooklyn College, USA)
Simon Parsons (The City University of New York - Brooklyn College, USA)
A. Tuna Özgelen (The City University of New York - The Graduate Center, USA)
Eric Schneider (The City University of New York - Hunter College, USA)
Michael Costantino (The City University of New York - College of Staten Island, USA)
Susan L. Epstein (The City University of New York - Hunter College, USA)

Thu. 13:50-15:30 Session: A4 - Simulation

Room: Governors 3W-4 Chair: Jaime Sichman

Modeling How Thinking About the Past and Future Impacts Network Traffic with the GOSMR Architecture *(P1-54)*
Kevin Gold (MIT Lincoln Laboratory, USA)
Zachary J. Weber (MIT Lincoln Laboratory, USA)
Ben Priest (MIT Lincoln Laboratory, USA)
Josh Ziegler (Air Force Institute of Technology, USA)
Karen Sittig (Massachusetts Institute of Technology, USA)
William W. Streilein (MIT Lincoln Laboratory, USA)
Mark Mazumder (MIT Lincoln Laboratory, USA)

Homophily, Popularity and Randomness: Modelling Growth of Online Social Network *(P1-55)*
Syed Muhammad Ali Abbas (Manchester Metropolitan University Business School, UK)

The Impact of Culture on Crowd Dynamics: An Empirical Approach *(P4-51)*
Natalie Fridman (Academic College of Management, Israel)
Gal A. Kaminka (Bar Ilan University, Israel)
Avishay Zilka (Bar Ilan University, Israel)

Using Ego-Centered Affordances in Multi-Agent Traffic Simulation *(P2-52)*
Feirouz Ksontini (IFSTTAR, IM, LEPSIS - LAMIH CNRS 8201, France)
Zahia Guessoum (University of Paris-VI, LIP6, MAS Team, France)
René Mandiau (University of Valenciennes LAMIH CNRS 8201, France)
Stéphane Espié (IFSTTAR, IM, France)

A Flexible Approach to Multi-Level Agent-Based Simulation with the Mesoscopic Representation *(P1-56)*
Laurent Navarro (Thales / Université Pierre et Marie Curie, France)
Vincent Corruble (Université Pierre et Marie Curie (Paris 6), France)
Fabien Flacher (Thales, France)
Jean-Daniel Zucker (UMMISCO, IRD, France)

Thu. 13:50-15:30 Session: B4 - Game Theory IV

Room: Minnesota Ballroom Chair: Toby Walsh

Towards a Deeper Understanding of Cooperative Equilibrium: Characterization and Complexity *(P2-53)*
Nan Rong (Cornell University, USA)
Joseph Y. Halpern (Cornell University, USA)

Equilibrium Analysis in Cake Cutting *(P4-52)*
Simina Brânzei (Aarhus University, Denmark)
Peter Bro Miltersen (Aarhus University, Denmark)

Double-Oracle Algorithm for Computing an Exact Nash Equilibrium in Zero-Sum Extensive-Form Games *(P3-57)*
Branislav Bošanský (Czech Technical University in Prague, Czech Rep)
Christopher Kiekintveld (University of Texas at El Paso, USA)
Viliam Lisý (Czech Technical University in Prague, Czech Rep)
Jiří Čermák (Czech Technical University in Prague, Czech Rep)
Michal Pěchouček (Czech Technical University in Prague, Czech Rep)

Computing Socially-Efficient Cake Divisions *(P3-58)*
Yonatan Aumann (Bar-llan University, Israel)
Yair Dombb (Bar-llan University, Israel)
Avinatan Hassidim (Bar-llan University, Israel)

No Agent Left Behind: Dynamic Fair Division of Multiple Resources *(P1-57)*
Ian Kash (Microsoft Research Cambridge, UK)
Ariel D. Procaccia (Carnegie Mellon University, USA)
Nisarg Shah (Carnegie Mellon University, USA)

Thu. 13:50-15:30 Session: C4 - Normative Systems

Room: Governors 2-3E Chair: Paolo Torroni

Emergence of Social Norms Through Collective Learning in Networked Agent Societies *(P3-59)*
Chao Yu (University of Wollongong, Australia)
Minjie Zhang (University of Wollongong, Australia)
Fenghui Ren (University of Wollongong, Australia)
Xudong Luo (Sun Yat-sen University, China)

Automated Synthesis of Normative Systems *(P4-53)*
Javier Morales (Universitat de Barcelona & Spanish Council of Scientific Research, Spain)
Maite Lopez-Sanchez (Universitat of Barcelona, Spain)
Juan A. Rodriguez-Aguilar (Spanish Council of Scientific Research, Spain)
Michael Wooldridge (University of Oxford, UK)
Wamberto Vasconcelos (University of Aberdeen, UK)

Monitoring Norm Violations in Multi-Agent Systems *(P1-58)*
Nils Bulling (Clausthal University of Technology, Germany)
Mehdi Dastani (Utrecht University, The Netherlands)
Max Knobbout (Utrecht University, The Netherlands)

Agent Reasoning for Norm Compliance: A Semantic Approach *(P2-54)*
M. Birna van Riemsdijk (Delft University of Technology, The Netherlands)
Louise A. Dennis (University of Liverpool, UK)
Michael Fisher (University of Liverpool, UK)
Koen V. Hindriks (Delft University of Technology, The Netherlands)

A Real-Time Semantics for Norms with Deadlines *(P2-55)*
Koen V. Hindriks (Delft University of Technology, The Netherlands)
M. Birna van Riemsdijk (Delft University of Technology, The Netherlands)

Thu. 13:50-15:30 Session: D4 - Auction & Mechanism Design II

Room: Governors 1 Chair: Enrico Gerding

Mechanisms for Hostile Agents with Capacity Constraints *(P3-60)*
Prashanth Lakshmanrao Ananthapadmanabharao (SequeL Team, INRIA Lille - Nord Europe, France)
Horabailu Laxminarayana Prasad (Indian Institute of Science, India)
Nirmit Desai (IBM Research, India)
Shalabh Bhatnagar (Indian Institute of Science, India)

Mergers and Collusion in All-Pay Auctions and Crowdsourcing Contests *(P4-54)*
Omer Lev (The Hebrew University of Jerusalem, Israel)
Maria Polukarov (University of Southampton, UK)
Yoram Bachrach (Microsoft Research, UK)
Jeffrey S. Rosenschein (The Hebrew University of Jerusalem, Israel)

Optimal Internet Auctions with Costly Communication *(P1-59)*
Yuqian Li (Duke University, USA)
Vincent Conitzer (Duke University, USA)

Mechanisms for Multi-Unit Combinatorial Auctions with a Few Distinct Goods *(P1-60)*
Piotr Krysta (University of Liverpool, Greece)
Orestis Telelis (Athens University of Economics and Business, Greece)
Carmine Ventre (Teesside University, UK)

VCG-Equivalent in Expectation Mechanism: General Framework for Constructing Iterative Combinatorial Auction Mechanisms *(P4-55)*
Atsushi Iwasaki (Kyushu University, Japan)
Etsushi Fujita (Kyushu University, Japan)
Taiki Todo (Kyushu University, Japan)
Miao Yao (Kyushu University, Japan)
Makoto Yokoo (Kyushu University, Japan)

Thu. 13:50-15:30 Session: E4 - Formal Theories

Room: Governors 5 Chair: Mehdi Dastani

A Logic of Probabilistic Knowledge and Strategy *(P3-61)*
Xiaowei Huang (University of New South Wales, Australia)
Cheng Luo (University of New South Wales, Australia)

Diagnosability in Concurrent Probabilistic Systems *(P4-56)*
Xiaowei Huang (University of New South Wales, Australia)

Automatic Verification of Parameterised Multi-Agent Systems *(P2-56)*
Panagiotis Kouvaros (Imperial College London, UK)
Alessio Lomuscio (Imperial College London, UK)

A Synergistic and Extensible Framework for Multi-Agent System Verification *(P4-57)*
Josie Hunter (Oregon State University, USA)
Franco Raimondi (MiddleSex University, UK)
Neha Rungta (NASA Ames Research Center, USA)
Richard Stocker (University of Liverpool, UK)

Hierarchical Planning about Goals and Commitments *(P3-62)*
Pankaj R. Telang (North Carolina State University, USA)
Felipe Meneguzzi (Pontifical Catholic University of Rio Grande do Sul, Brazil)
Munindar P. Singh (North Carolina State University, USA)

Thu. 13:50-15:30 Session: F4 - Learning I

Room: Capitol Ballroom Chair: Sandip Sen

Smart Exploration in Reinforcement Learning Using Absolute Temporal Difference Errors *(P2-57)*
Clement Gehring (McGill University, Canada)
Doina Precup (McGill University, Canada)

Addressing the Policy-bias of Q-Learning by Repeating Updates *(P2-58)*
Sherief Abdallah (British University in Dubai, UAE)
Michael Kaisers (Maastricht University, The Netherlands)

Teaching on a Budget: Agents Advising Agents in Reinforcement Learning *(P2-59)*
Lisa Torrey (St. Lawrence University, USA)
Matthew E. Taylor (Washington State University, USA)

Object Focused Q-Learning for Autonomous Agents *(P1-61)*
Luis C. Cobo (Georgia Institute of Technology, USA)
Charles L. Isbell Jr. (Georgia Institute of Technology, USA)
Andrea L. Thomaz (Georgia Institute of Technology, USA)

Learning Exploration Strategies in Model-Based Reinforcement Learning *(P2-60)*
Todd Hester (University of Texas at Austin, USA)
Manuel Lopes (INRIA Bordeaux Sud-Ouest, France)
Peter Stone (University of Texas at Austin, USA)

Thursday May 9, Afternoon Poster Session 4

P4-1: Seeding Influential Nodes in Non-Submodular Models of Information Diffusion
Elliot Anshelevich (Rensselaer Polytechnic Institute, USA)
Ameya Hate (Rensselaer Polytechnic Institute, USA)
Malik Magdon-Ismail (Rensselaer Polytechnic Institute, USA)

P4-2: Rating Players in Games with Real-Valued Outcomes
Christopher Archibald (University of Alberta, Canada)
Neil Burch (University of Alberta, Canada)
Michael Bowling (University of Alberta, Canada)
Matthew Rutherford (University of Denver, USA)

P4-3: Memory and the Design of Migrating Virtual Agents
Ruth Aylett (Heriot-Watt University, UK)
Michael Kriegel (Heriot-Watt University, UK)
Iain Wallace (Heriot-Watt University, UK)
Elena Segura (SICS, Sweden)
Johanna Mercurio (SICS, Sweden)
Stina Nylander (SICS, Sweden)

P4-4: On the Analysis of Joining Communities of Agent-Based Web Services
Jamal Bentahar (Concordia University, Canada)
Babak Khosravifar (McGill University, Canada)
Kathleen Clacens (University of Namur, Belgium)
Christophe Goffart (University of Namur, Belgium)
Philippe Thiran (University of Namur, Belgium)

P4-5: Bi-Directional Double Auction for Financial Market Simulation
Meng Chang (Aston University, UK)
Minghua He (Aston University, UK)
Aniko Ekart (Aston University, UK)
Xudong Luo (Sun Yat-Sen University, UK)
Shichao Zhang (Guangxi Normal University, China)

P4-6: Towards Ridesharing with Passenger Transfers
Brian Coltin (Carnegie Mellon University, USA)
Manuela Veloso (Carnegie Mellon University, USA)

P4-7: Biasing the Behavior of Organizationally Adept Agents
Daniel Corkill (University of Massachusetts, Amherst, USA)
Chongjie Zhang (University of Massachusetts, Amherst, USA)
Bruno da Silva (University of Massachusetts, Amherst, USA)
Yoonheui Kim (University of Massachusetts, Amherst, USA)
Daniel Garant (University of Massachusetts, Amherst, USA)
Victor R. Lesser (University of Massachusetts, Amherst, USA)
Xiaoqin Zhang (University of Massachusetts, Dartmouth, USA)

P4-8: Self-Checking Logical Agents
Stefania Costantini (University of L'Aquila, Italy)

P4-9: You Are Who You Hang Out With: Agents With Dynamic Identity
Joana Dimas (Technical University of Lisbon, Portugal, Portugal)
Rui Prada (Technical University of Lisbon, Portugal, Portugal)

P4-10: Minimal Concession Strategy for Reaching Fair, Optimal and Stable Marriages
Patricia Everaere (Université Lille 1, France)
Maxime Morge (Université Lille 1, France)
Gauthier Picard (École Nationale Supérieure des Mines de Saint-Étienne, France)

P4-11: Deontic Logic Programs
Ricardo Gonçalves (Universidade Nova de Lisboa, Portugal)
José Júlio Alferes (Universidade Nova de Lisboa, Portugal)

P4-12: An Agent for Optimizing Airline Ticket Purchasing
William Groves (University of Minnesota, USA)
Maria Gini (University of Minnesota, USA)

P4-13: Generating and Ranking Commitment Protocols
Akin Günay (Bogazici University, Turkey)
Michael Winikoff (Otago University, New Zealand)
Pinar Yolum (Bogazici University, Turkey)

P4-14: Reinforcement Social Learning of Coordination in Cooperative Multiagent Systems
Jianye Hao (The Chinese University of Hong Kong, China)
Ho-fung Leung (The Chinese University of Hong Kong, China)

P4-15: DeGED: An Efficient Divide-and-Coordinate Algorithm for DCOP
Daisuke Hatano (Kobe University, Japan)
Katsutoshi Hirayama (Kobe University, Japan)

P4-16: Schulze and Ranked-Pairs Voting Are Fixed-Parameter Tractable to Bribe, Manipulate, and Control
Lane A. Hemaspaandra (University of Rochester, USA)
Rahman Lavaee (University of Rochester, USA)
Curtis Menton (University of Rochester, USA)

P4-17: "Can I ask you a favour?" - A Relational Model of Socio-Cultural Behaviour
Samuel Mascarenhas (Universidade Tecnica de Lisboa, Portugal)
Rui Prada (Universidade Tecnica de Lisboa, Portugal)
Ana Paiva (Universidade Tecnica de Lisboa, Portugal)
Nick Degens (Wageningen University, The Netherlands)
Gert Jan Hofstede (Wageningen University, The Netherlands)

P4-18: Modeling Human Adversary Decision Making in Security Games: An Initial Report
Thanh H. Nguyen (University of Southern California, USA)
James Pita (University of Southern California, USA)
Rajiv Maheswaran (University of Southern California, USA)
Milind Tambe (University of Southern California, USA)
Amos Azaria (Bar-Ilan University, Israel)
Sarit Kraus (Bar Ilan University & University of Maryland, College Park, Israel & USA)

P4-19: An Agent Design for Repeated Negotiation and Information Revelation with People
Noam Peled (Bar Ilan University, Israel)
Ya'akov Kobi Gal (Ben-Gurion University, Israel)
Sarit Kraus (Bar Ilan University, Israel)

P4-20: CHAINME: Fast Decentralized Finding of Better Supply Chains
Toni Penya-Alba (IIIA-CSIC, Spain)
Jesus Cerquides (IIIA-CSIC, Spain)
Juan A. Rodriguez-Aguilar (IIIA-CSIC, Spain)
Meritxell Vinyals (University of Southampton, UK)

P4-21: Resistance to Bribery when Aggregating Soft Constraints
Maria Silvia Pini (University of Padova, Italy)
Francesca Rossi (University of Padova, Italy)
Kristen Brent Venable (Tulane University and IHMC, USA)

P4-22: Quality-Control Mechanism Utilizing Worker's Confidence for Crowdsourced Tasks
Yuko Sakurai (Kyushu University and JST PRESTO, Japan)
Tenda Okimoto (Transdisciplinary Research Integration Center, Japan)
Masaaki Oka (Kyushu University, Japan)
Masato Shinoda (Nara Women's University, Japan)
Maokoto Yokoo (Kyushu University, Japan)

P4-23: Using Response Probability to Build System Redundancy in Multiagent Systems
Annie S. Wu (University of Central Florida, USA)
R. Paul Wiegand (University of Central Florida, USA)
Ramya Pradhan (University of Central Florida, USA)

P4-24: Exact Algorithms for Weighted and Unweighted Borda Manipulation Problems
Yongjie Yang (Universität des Saarlandes, Germany)
Jiong Guo (Universität des Saarlandes, Germany)

P4-25: A Reputation-aware Decision-making Approach for Improving the Efficiency of Crowdsourcing Systems
Han Yu (Nanyang Technological University, Singapore)
Zhiqi Shen (Nanyang Technological University, Singapore)
Chunyan Miao (Nanyang Technological University, Singapore)
Bo An (Institute of Computing Technology, Chinese Academy of Sciences, China)

P4-26: Do Underlying Attitudes Affect Users' Subjective Experiences? The Case of an Empathic Agent
Janneke M. van der Zwaan (Delft University of Technology, The Netherlands)
Virginia Dignum (Delft University of Technology, The Netherlands)

Thursday May 9: Demo Session 4

D4-1: NetArg: An Agent-Based Social Simulator with Argumentative Agents
Simone Gabbriellini (University of Bologna, Italy)
Paolo Torroni (University of Bologna, Italy)

D4-2: Mechanical Design and Computational Aspects for Locomotion and Reconfiguration of the ModRED Modular Robot
Prithviraj Dasgupta (University of Nebraska-Omaha, USA)
José Baca (University of Nebraska-Omaha, USA)
S. G. M. Hossain (University of Nebraska-Lincoln, USA)
Ayan Dutta (University of Nebraska-Omaha, USA)
Carl Nelson (University of Nebraska-Lincoln, USA)

D4-3: An Approach to Team Programming with Markup for Operator Interaction
Nathan Brooks (Carnegie Mellon University, USA)
Ewart de Visser (Perceptronics Solutions, Inc., USA)
Timur Chabuk (Perceptronics Solutions, Inc., USA)
Elan Freedy (Perceptronics Solutions, Inc., USA)
Paul Scerri (Carnegie Mellon University, USA)

D4-4: Coordinating Maintenance Planning Under Uncertainty
Joris Scharpff (Delft University of Technology, The Netherlands)
Matthijs T.J. Spaan (Delft University of Technology, The Netherlands)
Leentje Volker (Delft University of Technology, The Netherlands)
Mathijs M. De Weerdt (Delft University of Technology, The Netherlands)

D4-5: iCO2 - Promoting Eco-Driving Practice through Multiuser Challenge Optimization
Marconi Madruga (National Institute of Informatics, Japan)
Helmut Prendinger (National Institute of Informatics, Japan)

D4-6: Formation Control for Cooperative Localization of MAV Swarms
Arjun Iyer (Franklin W. Olin College of Engineering, USA)
Luis Rayas (Franklin W. Olin College of Engineering, USA)
Andrew Bennett (Franklin W. Olin College of Engineering, USA)

D4-7: Deployment of Multi-Agent Algorithms for Tactical Operations on UAV Hardware
Martin Selecký (Czech Technical University in Prague, Czech Rep)
Michal Štolba (Czech Technical University in Prague, Czech Rep)
Tomáš Meiser (Czech Technical University in Prague, Czech Rep)
Michal Čáp (Czech Technical University in Prague, Czech Rep)
Antonín Komenda (Czech Technical University in Prague, Czech Rep)
Milan Rollo (Czech Technical University in Prague, Czech Rep)
Jiří Vokřínek (Czech Technical University in Prague, Czech Rep)
Michal Pěchouček (Czech Technical University in Prague, Czech Rep)

D4-8: Diverse Trajectory Planning for UAV Control Displays
Jan Tožička (Czech Technical University in Prague, Czech Rep)
Jan Balata (Czech Technical University in Prague, Czech Rep)
Zdeněk Mikovec (Czech Technical University in Prague, Czech Rep)

Fri. 11:00-12:20 Session: A5 - Distributed Problem Solving

Room: Governors 2-3E Chair: Pradeep Varakantham

Distributed Gibbs: A Memory-Bounded Sampling-Based DCOP Algorithm *(P2-61)*
Duc Thien Nguyen (Singapore Management University, Singapore)
William Yeoh (New Mexico State University, USA)
Hoong Chuin Lau (Singapore Management University, Singapore)

Reduction of Economic Inequality in Combinatorial Domains *(P2-62)*
Ulle Endriss (University of Amsterdam, The Netherlands)

Taxation Search in Boolean Games *(P3-63)*
Vadim Levit (Ben-Gurion University of the Negev, Israel)
Tal Grinshpoun (Ben-Gurion University of the Negev, Israel)
Amnon Meisels (Ben-Gurion University of the Negev, Israel)
Ana L. C. Bazzan (PPGC / UFRGS, Brazil)

Improved Max-Sum Algorithm for DCOP with n-ary Constraints *(P1-62)*
Yoonheui Kim (University of Massachusetts at Amherst, USA)
Victor Lesser (University of Massachusetts at Amherst, USA)

Fri. 11:00-12:20 Session: C5 - Teamwork, Coalition, Coordination

Room: Minnesota Ballroom Chair: Amal El Fallah Seghrouchni

Dynamic Weighted Voting Games *(P1-63)*
Edith Elkind (Nanyang Technological University, Singapore)
Dmitrii Pasechnik (Nanyang Technological University, Singapore)
Yair Zick (Nanyang Technological University, Singapore)

Taxation and Stability in Cooperative Games *(P1-64)*
Yair Zick (Nanyang Technological University, Singapore)
Maria Polukarov (University of Southampton, UK)
Nicholas R. Jennings (University of Southampton, UK)

Ad Hoc Teamwork for Leading a Flock *(P4-58)*
Katie Genter (University of Texas at Austin, USA)
Noa Agmon (Bar Ilan University, Israel)
Peter Stone (University of Texas at Austin, USA)

Producing Efficient Error-Bounded Solutions for Transition Independent Decentralized MDPs *(P2-63)*
Jilles S. Dibangoye (INRIA, France)
Christopher Amato (Massachusetts Institute of Technology, USA)
Arnaud Doniec (Université Lille Nord de France, France)
François Charpillet (INRIA, France)

Fri. 11:00-12:20 Session: D5 - Negotiation & Cooperation

Room: Governors 1 Chair: Carles Sierra

Optimizing Complex Automated Negotiation Using Sparse Pseudo-Input Gaussian Processes *(P3-64)*
Siqi Chen (Maastricht University, The Netherlands)
Haitham Bou Ammar (Maastricht University, The Netherlands)
Karl Tuyls (Maastricht University, The Netherlands)
Gerhard Weiss (Maastricht University, The Netherlands)

Accepting Optimally in Automated Negotiation with Incomplete Information *(P1-65)*
Tim Baarslag (Delft University of Technology, The Netherlands)
Koen V. Hindriks (Delft University of Technology, The Netherlands)

On the Verification and Computation of Strong Nash Equilibrium *(P3-65)*
Nicola Gatti (Politecnico di Milano, Italy)
Marco Rocco (Politecnico di Milano, Italy)
Tuomas Sandholm (Carnegie Mellon University, USA)

Competing Intermediary Auctions *(P4-59)*
Lampros C. Stavrogiannis (University of Southampton, UK)
Enrico H. Gerding (University of Southampton, UK)
Maria Polukarov (University of Southampton, UK)

Fri. 11:00-12:20 Session: E5 - Human-Robot Interaction & Reasoning

Room: Governors 3W-4 Chair: Koen Hindriks

Bounded Planning for Strategic Goals with Incomplete Information and Perfect Recall *(P2-64)*
Xiaowei Huang (University of New South Wales)

Using Conflict Resolution to Inform Decentralized Learning *(P4-60)*
Shanjun Cheng (Altisource, USA)
Anita Raja (The University of North Carolina at Charlotte, USA)
Victor Lesser (University of Massachusetts, Amherst, USA)

Efficient Budget Allocation with Accuracy Guarantees for Crowdsourcing Classification Tasks *(P4-61)*
Long Tran-Thanh (University of Southampton, UK)
Matteo Venanzi (University of Southampton, UK)
Alex Rogers (University of Southampton, UK)
Nicholas R. Jennings (University of Southampton, UK)

Using Informative Behavior to Increase Engagement in the TAMER Framework *(P4-62)*
Guangliang Li (University of Amsterdam The Netherlands)
Hayley Hung (University of Amsterdam The Netherlands)
Shimon Whiteson (University of Amsterdam The Netherlands)
W. Bradley Knox (MIT Media Lab, USA)

Fri. 11:00-12:20 Session: F5 - Learning II

Room: Capitol Ballroom Chair: Jacob Crandall

Distributed Relational Temporal Difference Learning *(P4-63)*
Qiangfeng Peter Lau (National University of Singapore, Singapore)
Mong Li Lee (National University of Singapore, Singapore)
Wynne Hsu (National University of Singapore, Singapore)

Cooperating with a Markovian Ad Hoc Teammate *(P4-64)*
Doran Chakraborty (Microsoft, USA)
Peter Stone (The University of Texas at Austin, USA)

A Learning Agent for Heat-Pump Thermostat Control *(P2-65)*
Daniel Urieli (The University of Texas at Austin, USA)
Peter Stone (The University of Texas at Austin, USA)

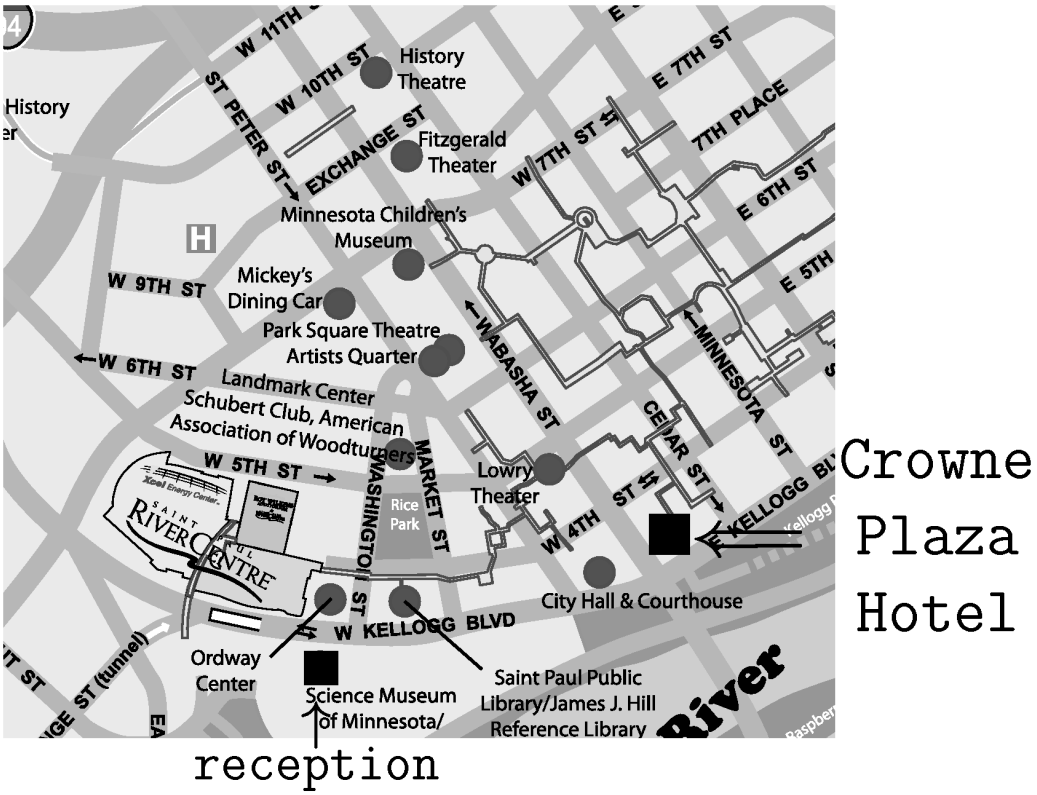
Coordinating Multi-Agent Reinforcement Learning with Limited Communication *(P4-65)*
Chongjie Zhang (University of Massachusetts, Amherst, USA)
Victor Lesser (University of Massachusetts, Amherst, USA)

Social Events

Tuesday. May 7, 19:00 - 21:30 - Opening Reception

Location: Science Museum of Minnesota, 120 W. Kellogg Blvd., St. Paul, MN 55102

Light hors d'oeuvres and access to the Science Museum exhibit floors.



Wednesday, May 8, 12:40-13:50 - Women Lunch

Room: Great River II and III

Thursday, May 9, 18:30-21:30 - Banquet and Award Ceremony

Room: Great River

Sit-down dinner with live music and award ceremony.

Keynote Speakers

Wednesday, May 8, 8:45-9:45

Room: Minnesota Ballroom Chair: Takayuki Ito

A Multi-Agent Systems "Turing Challenge"

Barbara J. Grosz (Harvard University, USA)

Abstract: I recently argued that Turing, were he alive now, would conjecture differently than he did in 1950, and I suggested a new "Turing challenge" question, – Is it imaginable that a computer (agent) team member could behave, over the long term and in uncertain, dynamic environments, in such a way that people on the team will not notice it is not human. [4]. In the last several decades, the field of multi-agent systems has developed a vast array of techniques for cooperation and collaboration as well as for agents to handle adversarial or strategic situations. Even so, current generation agents are unlikely to meet this new challenge except in very simple situations. The need for agents to work better with people has become greater and more widespread, as evidenced by the Human-Agent Interaction Design and Models Workshop at this conference and an upcoming conference on Human Computation and Crowdsourcing. Research in these arenas approaches human-computer collaborations from different perspectives, but shares many challenges. Meeting these challenges requires new algorithms and novel plan representations. This talk will explore the implications of this new "Turing question" and examine several challenges that arise in the design both of agents supporting people and of systems in which people assist computers in their work. These challenges include determining a division of labor that respects the complementary strengths of people and computer agents, development of methods for information sharing, defining incentive mechanisms for such settings, and designing empirical methodologies for evaluating agents in open mixed networks [3]. I will describe recent work by my group on interruption management, plan recognition, and test-beds for empirical studies of human-computer collaborations aimed at addressing these challenges, and will discuss our current work on developing intelligent agents able to work as a team supporting health care providers and patients to improve care coordination and in the communication of medical information.

Bio: Barbara J. Grosz is Higgins Professor of Natural Sciences in the School of Engineering and Applied Sciences at Harvard University. From 2001-2011, she served as dean of science and then dean of the Radcliffe Institute for Advanced Study at Harvard. Grosz is known for her seminal contributions to the fields of natural-language processing and multi-agent systems. She developed some of the earliest computer dialogue systems and established the research field of computational modeling of discourse. Her work on models of collaboration helped establish that field and provides the framework for several collaborative multi-agent and human-computer interface systems. Grosz is a member of the National Academy of Engineering, the American Philosophical Society, and the American Academy of Arts and Sciences and a fellow of the Association for the Advancement of Artificial Intelligence (AAAI), the Association for Computing Machinery, and the American Association for the Advancement of Science. In 2009, she received the ACM/AAAI Allen Newell Award for "fundamental contributions to research in natural language processing and in multi-agent systems, for her leadership in the field of artificial intelligence, and for her role in the establishment and leadership of interdisciplinary institutions." She served as president of the AAAI from 1993-1995 and on the Boards of IJCAI (Chair 1989-91) and IFAAMAS.

Thursday, May 9, 8:45-9:45

Room: Minnesota Ballroom Chair: Catholijn Jonker

Agents of Value

Batya Friedman (University of Washington, USA)

Agents, be they human or technological, act on behalf of others in the world. Autonomous software agents may also act as representations (as in simulations) of human concerns. To do so both effectively and ethically, these agents must in some meaningful way understand and account for what those for whom they act consider important in life. At stake is no less than the risk of designing technologies that undermine important human values. Yet, with our limited view, it is not at all obvious how to design agent technologies so that they are more likely to support the actions, relationships, institutions, and experiences that human beings care deeply about. In this invited speech I will explore the question of how to design agent technology to be sensitive to human values and concerns. I will draw from over two decades of design work and theory development in Value Sensitive Design. Along the way, I will touch on how agent technologies instantiate human values, the locus of value tensions in multi-agent systems, and key value tensions. From there, I will turn to methods from value sensitive design – direct and indirect stakeholder analyses, value scenarios, Envisioning Cards – which can be used to improve sensitivity to human values in agent technology research and design work. I will end with a few research challenges for which cutting edge agent technology design has provocative implications for human futures. Throughout, I will take an interactional stance: that agent technologies shape human experience and our very being; and through our experiences and being, we continually re-imagine those very technologies

Bio: Batya Friedman is a Professor in The Information School, Adjunct Professor in the Department of Computer Science, and Adjunct Professor in the Department of Human-Centered Design and Engineering at the University of Washington where she directs the Value Sensitive Design Research Lab. Dr. Friedman pioneered value sensitive design (VSD), an approach to account for human values in the design of information systems. First developed in human-computer interaction, VSD has since been used in information management, human-robotic interaction, computer security, civil engineering, applied philosophy, and land use and transportation. Her work has focused on a wide range of values, some include privacy in public, trust, freedom from bias, moral agency, sustainability, safety, calmness, freedom of expression, and human dignity; along with a range of technologies such as web browsers, urban simulation, robotics, open source tools, mobile computing, implantable medical devices, social media, ubiquitous computing and computing infrastructure. Dr. Friedman is currently working on multi-lifespan information system design and on methods for envisioning – imagining new ideas for leveraging information systems to shape our futures. Voices from the Rwanda Tribunal is an early project in this multi-lifespan information system design program. In 2012 Batya Friedman received the ACM-SIGCHI Social Impact Award and the University Faculty Lecturer award at the University of Washington. She received both her B.A. and Ph.D. from the University of California at Berkeley.

Award Winners Plenary Talks

Wednesday, May 9, 16:30-17:30

Room: Minnesota Ballroom Chair: Michael Wooldridge

ACM/SIGART Autonomous Agents Research Award

Multiagent Systems, and the Search for Appropriate Foundations
Jeffrey S. Rosenschein (The Hebrew University of Jerusalem, Israel)

Abstract: Over 25 years ago, faced with a request to provide a short description of my research, I ventured that my work focused on the use of economic theory, voting theory, and game theory to establish appropriate foundations for Multiagent Systems (though the original wording was slightly different). That has remained an accurate description of my research, and it is a description that I still use. In this talk, I will discuss how this meta-description found instantiation in a wide range of my research group's work, the ways in which my perspective has changed over the years, and my understanding of our short-term and long-term challenges in Multiagent Systems. Along the way, I will elaborate on some specific observations, about research in the field and the field itself, including: (i) Some of the disruptions that have occurred in MAS, including the move to include self-motivated agents as an important subject for research, and the acceptance of mechanism design as a legitimate topic to be included in artificial intelligence; (ii) Some of the wider trends in AI that have had a more minor impact on MAS; (iii) Ways in which intuitions about interaction have driven my formal research; (iv) The heterogeneous origins of the field, and the lasting impact that has had on its development.

Bio: Jeff Rosenschein is the Samuel and Will Strauss Professor of Computer Science in the School of Engineering and Computer Science at the Hebrew University of Jerusalem; he currently serves as Head of the School, and is director of its Multiagent Systems Research Group. He received his undergraduate degree in Applied Mathematics from Harvard University (1979), and his Master's degree (1982) and PhD (1986) in Computer Science from Stanford University. He has published widely in the field of Multiagent Systems, including co-authoring the book "Rules of Encounter", MIT Press, 1994, which influenced the adoption of game-theoretic techniques within the field of artificial intelligence; he was a co-winner of the IFAAMAS Influential Paper Award (2007). He is co-editor-in-chief of the Journal of Autonomous Agents and Multiagent Systems, is on the Advisory Board of the Journal of Artificial Intelligence Research, is a Fellow of the Association for the Advancement of Artificial Intelligence, and received the Rector's Prize for Excellence in Research and Teaching in 2011 from Hebrew University.

ACM/SIGART Autonomous Agents Research Award. The ACM SIGART Autonomous Agents Research Award is an annual award for excellence in research in the area of autonomous agents. The award recognizes researchers in autonomous agents whose current work is an important influence on the field. The award is an official ACM award, funded by an endowment created by ACM SIGART from the proceeds of previous Autonomous Agents conferences.

Professor Rosenschein is honoured for his pioneering work on the use of game theory in multi-agent systems. Among Professor Rosenschein's many contributions in this area are techniques for automated negotiation, computational social choice, multi-agent planning, and mechanism design in computational settings. In addition, Professor Rosenschein has a substantial track record of community service, having been general co-chair for the AAMAS conference in 2003, president of the International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS), and serving as co-editor-in-chief for the journal "Autonomous Agents and Multi-Agent Systems."

Thursday, May 9, 16:30-17:30

Room: Minnesota Ballroom Chair: Michael Winikoff

2012 IFAAMAS Victor Lesser Distinguished Dissertation Award

Cultural Diversity for Virtual Characters: Investigating Behavioral Aspects across Cultures

Birgit Endrass (Augsburg University, Germany)

Abstract: Virtual Agents are designed to resemble humans and to behave in a natural way. In the last decade considerable efforts have been made to enhance their believability by incorporating human factors such as personality or emotions. Only recently, attempts have been made to integrate cultural background into multiagent virtual character systems. The majority of approaches is model-based: well-established theories from the social sciences are taken as a basis and structured for their usage in computational models. That way, the causality of culture and corresponding behavior is formalized in a generalizable manner and can thus be applied to different social situations. However, model-based systems often remain on an abstract level as literature provides behavioral tendencies rather than concrete behaviors for implementation. Other approaches, mainly used for the integration of individual factors, use human data such as video corpora that serve as a basis for simulation. This data-driven approach allows the extraction of concrete human behaviors but might be hard to adapt to settings different from the one recorded. In this talk a hybrid approach is presented that combines the advantages of a model-based and a data-driven approach for the integration of culture into a multiagent system and is exemplified for the German and Japanese cultures. Therefore, cultural profiles were developed from the research literature for prototypical agent behavior, while statistical data was gained from a large video corpus recorded in the target cultures that provides a deeper insight into how concrete behavioral differences manifest themselves. For the generation process, culture had to be integrated as a parameter in addition to the typical challenges of behavior generation in multiagent systems. Approaches were identified that had already overcome similar challenges successfully for other human factors, although they have not been applied to culture yet. To generate natural dialog behavior, a distributed plan-based approach was applied for the production of goal-directed dialog utterances dependent on cultural background that ensures autonomous behavior by generating intentional dialog behavior for each character individually. For the realization of nonverbal behaviors, a Bayesian network was employed which allows dealing with uncertain knowledge resulting from the fact that there is no clear mapping between cultural background and nonverbal behaviors. After integration into a 3D environment with culture-specific virtual characters, perception studies were conducted for different cultures. Results reveal that human observers tend to prefer character behavior that was designed to resemble their own cultural background. The integration of cultural background into the behavioral models of virtual characters can not only enhance their acceptance by a certain group of users but could also be used for cultural training scenarios or the localization of computer games and learning environments in future applications.

2012 IFAAMAS Victor Lesser Distinguished Dissertation Award. This award is named for Professor Victor Lesser, a long standing member of the AAMAS community who has graduated a large number of outstanding PhD students in the area. Selection is based on originality, depth, impact and written quality, supported by quality publications. Previous winners of this award were Daniel Villatoro (2011), Bo An (2010), Andrew Gilpin (2009), Ariel Procaccia (2008), Radu Jurca (2007), and Vincent Conitzer (2006). Dr. Endrass's thesis was supervised by Prof. Dr. Elisabeth André. The two runner-ups are: Dr. Bradley Knox, whose thesis titled "Learning from Human-Generated Reward" was supervised by Prof. Peter Stone and Dr. Akshat Kumar, whose thesis titled "Exploiting Domain Structure in Multiagent Decision-Theoretic Planning and Reasoning" was supervised by Prof. Shlomo Zilberstein.

Friday, May 10, 9:00-10:00

Room: Minnesota Ballroom Chair: Onn Shehory

IFAAMAS Influential Paper Award

InMind and OutMind Societal Order. Cognition & Self-Organization: The role of MAS

Cristiano Castelfranchi (Institute of Cognitive Sciences and Technologies, Roma, Italy)

Abstract: Building on the papers of the 90s, my problem is the multiple-relation between Goal-directed Cognitive Agents, Social Order, and Self-organization. What we are unavoidably building with computer networks, AI, and Agent technologies are Socio-Cognitive-Technical Systems: Socio-Technical System in fact means that any new technology implies/requires/introduces not only new skills and competences, but new expectations, goals, beliefs; new *scripts*, with their roles, norms; new form of interaction and conventions among the social actors. So we have to specify the cognitive and interactive side of the new system. Moreover, this new complex Socio-Technical (and mental) System cannot be just planned and designed. It is dynamically emerging and self-organizing: it is a spontaneous Social Order (von Hayek); a dynamic equilibrium not necessarily *good* for the goals of the actors. What we need is not just a top-down organization and control. Both in order to support and mediate human interaction and organization and to emulate them in efficient open MAS systems, we have to (partially) *understand* and to reproduce features of human social mind (like commitments, norms, mind reading, power, trust, institutional effects, ...) and of social macro-phenomena. In particular we have to model *immergence* and *cognitive emergence*; the mental *mediators* of societal phenomena and their partial understanding and awareness in the actors. But also what we socially construct without understanding it. How is it possible that intentional agents do not intend the functions of their collective behavior? Which the relationship between emergent functions and intended goals? Not only the MAS supported social order cannot just be top-down, but it must allow autonomy and flexibility, and true *conventions* and *norms* with their intrinsic possible violation. Compliance to norms and commitments is assumed to be and to have to be guaranteed in E-institutions. Why? N-violation (rules, roles, ...) can be adaptive, functional. But to really be adaptive should be just accidental; it should be based on some "understanding" and giving-priority to the "goal" of that norm or task or request or prescription. It should be based on some Over-help. However, how to support "trust" within those self-organizing, changing, and normatively not-rigid system? Only MAS can solve this theoretical and technical problems; by changing the Social Sciences methods, data, and modeling tools. By modeling Emergence but also Immergence and Cognitive Emergence, and different level and kinds of orders; how minds become coordination artifacts; different kinds and levels of cooperation. And in particular the relation between mental representations and learning and self-organizing autonomous systems. Can we Program with the "Invisible Hand"? Will the "Invisible Hand" - governing human society - be implemented in the emergent intelligence of a Self-organizing open MA systems? MAS will play several crucial roles: - Experimental methods and platforms for the Social and political sciences; - New conceptual, theoretical and modeling tools; - Infrastructure for Self-organizing but monitored and governed Organizations: MA implementation, Ag mediation and support; - Participation, transparency, information; mediamorphosis of knowledge institutions; - Simulation for understanding, predicting and deciding about real social dynamics; - MA coordination for feedbacks from intelligent sensors, stakeholders, people, ... to authorities and control institutions.

Bio: Full professor of "Cognitive Sciences" at the University of Siena, Department of Communication Science (now retired) and Prof. of Psychology & Economics, LUISS Univ. Rome. Director of the Institute of Cognitive Sciences and Technologies-ISTC of the National

Research Council, in Roma (since june 2011). Cognitive scientist, with a background in linguistics and psychology, he is active in both the Multi-Agent Systems, the Social Simulation, and the Cognitive Science communities. Program chair of the First International Joint Conference on Autonomous Agents and Multi-Agent Systems AAMAS-2002; General co-chair of the International Joint Conference on Autonomous Agents and Multi-Agent Systems AAMAS-2009; chair of several international workshops in these fields; advisory member of several international conferences and societies (like Cognitive Science; IFMAS); member of the editorial board of "J of Autonomous Agents and MAS", of "Cognitive Science Quarterly"; promoter of the Italian Association for Cognitive Sciences, and of the special interest group on Agents of the AI*IA. Fellow of the European Coordinating Committee for Artificial Intelligence, for "Pioneering work in the field," August 2003. Award "Mind and Brain" 2008. Univ of Torino. Invited speaker at IJCAI'97 & IJCAI'13; invited speaker at Cognitive Science European Conference and many other conferences and workshops in AI, logic, philosophy, linguistics, psychology, economics. Research fields of interest include cognitive approach to communication (semantics and pragmatics); cognitive agent theory and architecture; multi-agent systems; agent-based social simulation; social cognition and emotions; cognitive foundations of complex social phenomena (dependence, power, cooperation, norms, organization, social functions, etc.).

IFAAMAS Influential Paper Award. The International Foundation for Autonomous Agents and Multi-Agent Systems set up an influential paper award in 2006 to recognize publications that have made seminal contributions to the field. Such papers represent the best and most influential work in the area of autonomous agents and multi-agent systems. These papers might, therefore, have proved a key result, led to the development of a new sub-field, demonstrated a significant new application or system, or simply presented a new way of thinking about a topic that has proved influential. The award is open to any paper that was published at least 10 years before the award is made. The paper can have been published in any journal, conference, or workshop. The award is sponsored by the Agent Theories, Architectures and Languages foundation.

Cristiano Castelfranchi is the winner of the 2013 IFAAMAS Influential Paper Award, in recognition of his distinguished contributions to the field as exemplified by the following two influential papers:

- Cristiano Castelfranchi, "Modelling social action for AI agents." Artificial Intelligence, Volume 103, Issues 1-2, August 1998, Pages 157-182.
- Cristiano Castelfranchi, "Commitment: From individual intentions to groups and organizations." First International Conference on Multi-Agent Systems, pages 41-49, 1995.

Awards Nominations

Best Paper Nominations

Weighted Electoral Control *(Session C1)*
Piotr Faliszewski (AGH University of Science and Technology, Poland)
Edith Hemaspaandra (Rochester Institute of Technology, USA)
Lane A. Hemaspaandra (University of Rochester, USA)

Game-Theoretic Randomization for Security Patrolling with Dynamic Execution Uncertainty *(Session B1)*
Albert Xin Jiang (University of Southern California, USA)
Zhengyu Yin (University of Southern California, USA)
Chao Zhang (University of Southern California, USA)
Milind Tambe (University of Southern California, USA)
Sarit Kraus (Bar-Ilan University, Israel)

Mechanisms for Multi-Unit Combinatorial Auctions with a Few Distinct Goods *(Session D4)*
Piotr Krysta (University of Liverpool, Greece)
Orestis Telelis (Athens University of Economics and Business, Greece)
Carmine Ventre (Teesside University, UK)

Best Challenges and Visions papers nominations

Collaborative Health Care Plan Support *(Session E2)*
Ofra Amir (Harvard University, USA)
Barbara J. Grosz (Harvard University, USA)
Edith Law (Harvard University, USA)
Roni Stern (Harvard University, USA)

Curing Robot Autism: A Challenge *(Session E2)*
Gal A. Kaminka (Bar Ilan University, Israel)

Systems Resilience: A Challenge Problem for Dynamic Constraint-Based Agent Systems *(Session E2)*
Nicolas Schwind (National Institute of Informatics, Japan)
Tenda Okimoto (Transdisciplinary Research Integration Center, Japan)
Katsumi Inoue (National Institute of Informatics, Japan)
Hei Chan (Transdisciplinary Research Integration Center, Japan)
Tony Ribeiro (The Graduate University for Advanced Studies, Japan)
Kazuhiro Minami (Transdisciplinary Research Integration Center, Japan)
Hiroshi Maruyama (Institute of Statistical Mathematics, Japan)

Best student papers nominations

Cooperative Energy Exchange for the Efficient Use of Energy and Resources in Remote Communities *(Session D3)*
Muddasser Alam (University of Southampton, UK)
Sarvapali D. Ramchurn (University of Southampton, UK)
Alex Rogers (University of Southampton, UK)

An Evolutionary Model for Constructing Robust Trust Networks *(Session E3)*
Siwei Jiang (Nanyang Technological University, Singapore)
Jie Zhang (Nanyang Technological University, Singapore)
Yew-Soon Ong (Nanyang Technological University, Singapore)

Efficient Parking Allocation as Online Bipartite Matching with Posted Prices *(Session B3)*
Reshef Meir (The Hebrew University of Jerusalem, Israel)
Yiling Chen (Harvard University, USA)
Michal Feldman (Harvard University & The Hebrew University of Jerusalem, USA)

Towards a Deeper Understanding of Cooperative Equilibrium: Characterization and Complexity *(Session B4)*
Nan Rong (Cornell University, USA)
Joseph Y. Halpern (Cornell University, USA)

Best SPC member nominations

For their outstanding efforts in handling the PC members and reviewing of the AAMAS 2013 submissions the following people (in alphabetical order) have been nominated for Best SPC member of AAMAS 2013:

- Vicent Botti (Universidad Politecnica de Valencia)
- Craig Boutilier (University of Toronto)
- Pradeep Varakantham (Singapore Management University)

The nominees were selected for the quality of their meta-reviews, for their way of motivating PC members to write high quality reviews and initiating a high quality debate, for their high quality reviews, and their general troubleshooting skills.

Best PC member nominations

For their outstanding efforts in reviewing the AAMAS 2013 submissions the following people (in alphabetical order) have been nominated for Best SPC member of AAMAS 2013:

- Stephane Airiau (Universit Paris-Dauphine)
- Ule Endriss (University of Amsterdam)
- Atsushi Iwasaki (Kyushu University)

The nominees were selected for the quality of their reviews, responding to the rebuttal where appropriate, and their efforts to have a high quality discussion about the paper with the other reviewers. Finally, the sheer amount of reviews was taken into account.

AAMAS 2013 Organizing Committee

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Maria Gini (University of Minnesota, USA)
Onn Shehory (IBM Haifa Research Lab)

Program Chairs:
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Catholijn Jonker (Delft University of Technology, The Netherlands)

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Alessandro Farinelli (University of Verona, Italy)

General Information

Venue: The conference will take place at the Crowne Plaza St. Paul Riverfront Hotel, 11 East Kellogg Boulevard, St. Paul, MN 55101. Phone: 651-292-1900, Fax: 651-605-0189

Registration and Information Desk: The registration and information desk operates in the lower level next to the escalator.

Opening hours:

Monday, May 6:	8:00-17:30
Tuesday, May 7:	8:00-17:30
Wednesday, May 8:	8:00-17:30
Thursday, May 9:	8:00-17:30
Friday, May 10:	8:00-12:00

Badges: Please wear your badge at all times, including the social events.

Insurance: The conference provides no insurance and does not take responsibility for any loss, accident, or illness that might occur during the conference or in the course of travel to or from the meeting site.

Bank, Currency, and Credit Cards: Credit cards are accepted at most hotels, restaurants, and shops. ATM machines are widely available.

Wireless Internet: Wireless internet is available to conference participants in all meeting rooms and public areas of the Crowne Plaza.

Voltage: The electricity in the US is 110 Volts, AC, 60 Hertz. Outlets may need an adaptor for overseas visitors to use their personal appliances.

Weather/Time Information: The average temperature for Saint Paul in the middle of May is a high of 70 F (21 C) and a low of 49 F (9.4 C). The weather is highly variable. Temperatures in the mid 80s (or 30s) are not unheard of for this time of the year. Most days are sunny but intense rainstorms can arrive with little warning. Humidity is medium. Dressing in layers is advisable.

Saint Paul is in the US Central Daylight Time zone (GMT -5).

Getting to the hotel from the airport

Transportation available from the airport includes

- Shuttle: Go to the Supershuttle's visit St. Paul link and book online. You get a roundtrip for $24. There is an even better deal with an exclusive van price of $80 for a group of up to 10 arriving on the same flight. It requires one person to have reserved on a credit card. The discount code for this is 6Q9MG if somebody calls for reservations at 1-800-258-3826, but they add a $2 reservation fee. It is the same for walkups with the Visit St. Paul discount, or that code.
- Taxi: There are multiple taxis at both Terminals.
- Public Transportation: From Terminal 1, take city bus #54 towards St. Paul. Fare is $2.25 (peak) or $1.75 (off-peak). Exact change is required. To reach the bus stop from the main terminal, take the tram towards car rental/light rail. From Terminal 2, you must transfer to Terminal 1 using the light rail (no charge).

  The bus ride is about 20 minutes. Get off at 5th Street and Market. Cross the street and

walk along 5th Street. Pass St. Peter street and turn right on Wabasha Street. 1 block later you reach 4th street. Ahead on the left you'll see the Crown Plaza hotel with flags.

For additional city bus information visit `http://metrotransit.org`.

Emergency Telephone Number: 911 is the emergency services telephone number for fire, ambulance, and police. It can be dialed from any phone without a coin or a card.

Call for Participation (AAMAS'14)

The 13th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2014) `http://aamas2014.lip6.fr` will be held at the Marriott Rive Gauche Hotel in Paris, France, May 5-9, 2014.

AAMAS 2014, the thirteenth conference in the AAMAS series, seeks high-quality submissions of full papers, limited to 8 pages in length. Submissions will be rigorously peer reviewed and evaluated on the basis of originality, soundness, significance, presentation, understanding of the state of the art, and overall quality of their technical contribution. Reviews will be double blind; authors must avoid including anything that can be used to identify them. Please note that submitting an abstract is required to submit a full paper. However, the abstracts will not be reviewed and full (8 page) papers must be submitted for the review process to start. All work must be original, i.e., it must not have appeared in a conference proceedings, book, or journal. In addition to submissions in the main track, AAMAS 2014 will be soliciting papers in three special tracks. The review process for the special tracks will be similar to the main track, but with program committee members specially selected for that track. All accepted papers for the special tracks will be included in the proceedings.

Important dates:
Electronic Abstract Submission: October 8, 2013 (11:59 PM HST)
Full Paper and Extended Abstract Submission: October 11, 2013 (11:59 PM HST)
Rebuttal Phase: November 29 - December 2, 2013 (11:59 PM HST)
Author Notification: December 20, 2013

General Chairs: Ana Bazzan (Universidade Federal do Rio Grande do Sul, Brazil), Michael Huhns (University of South Carolina, USA)

Program Chairs: Alessio Lomuscio (Imperial College London, UK), Paul Scerri (Carnegie Mellon University, USA)

Local Arrangements Chair: Amal El Fallah Seghrouchni (University Pierre and Marie Curie, France)

Full call for papers is in the conference proceedings.