AAMAS 2007 POSTER PROGRAM

Wednesday, May 16

1:30 – 3:00 Poster Session 1 (88 posters)

Group a: Embodied Agents and Architectures

"What can I do with this?" - Finding Possible Interactions between Characters and Objects
Pedro Sequeira, Marco Vala, and Ana Paiva

Aborting Tasks and Plans in BDI Agents
John Thangarajah, James Harland, David Morley, and Neil Yorke-Smith

Evaluating a Conversation-Centered Interactive Drama
Manish Mehta, Steven Dow, Michael Mateas, and Blair MacIntyre

Goals in the Context of BDI Plan Failure and Planning
Sebastian Sardina and Lin Padgham

Automatic Annotation of Team Actions in Observations of Embodied Agents
Linus Luotsinen, Hans Fernlund, and Ladislau Boloni

Agents that Remember Can Tell Stories: Integrating Autobiographic Memory into Emotional Agents
Wan Ching Ho, João Dias, Rui Figueiredo, and Ana Paiva

EBDI: An Architecture for Emotional Agents
Hong Jiang, Jose Vidal, and Michael Huhns

Extending Character-based Storytelling with Awareness and Feelings
david pizzi, Marc Cavazza, and Jean-Luc Lugrin

Approximate State Estimation in Multiagent Settings with Continuous or Large Discrete State Spaces
Prashant Doshi

Dynamic Movement and Positioning of Embodied Agents in Multiparty Conversations
Dusan Jan and David Traum

Group b: Argumentation, Negotiation, and Partially Cooperative Systems

Policy Recognition for Multi-Player Tactical Scenarios
Gita Sukthankar and Katia Sycara

Meta-Level Coordination for Solving Negotiation Chains in Semi-Cooperative Multi-Agent Systems
Xiaoqin Zhang and Victor Lesser

Emergence of Global Network Property based on Multi-agent Voting Model
Kosuke Shinoda, Yutaka Matsuo, and Hideyuki Nakashima

Towards Self-Organizing Agent-based Resource Allocation in a Multi-Server Environment
Tino Schlegel and Ryszard Kowalczyk

Dynamics of Contracts-Based Organizations: A Formal Approach Based on Institutions
Yathiraj Udupi and Munindar Singh

Arguing for Gaining Access to Information

Sylvie Doutre, Peter McBurney, Laurent Perrussel, and Jean-Marc Thévenin

A unifying framework for multi-agent agreement problems

Kiran Lakkaraju and Les Gasser

Autonomous Nondeterministic Tour Guides: Improving Quality of Experience with TTD-MDPs

Andrew Cantino, David Roberts, and Charles Isbell

Strategic Delay in Bargaining

Pinata Winoto, Gordon McCalla, and Julita Vassileva

When Price Is Not Enough: Combining Logical and Numerical Issues in Bilateral Negotiation

Azzurra Ragone, Tommaso Di Noia, Eugenio Di Sciascio, and Francesco M. Donini

Group c: Communications, Conversations, and Commitments

Dynamic Semantics for Agent Communication Languages

Michael Rovatsos

Commitment and Extortion

Paul Harrenstein, Felix Brandt, and Felix Fischer

Enacting Protocols by Commitment Concession

Pinar Yolum and Munindar Singh

Temporal Linear Logic as a Basis for Flexible Agent Interactions

Duc Pham and James Harland

Choice and Interoperation in Protocol Enactment

Amit Chopra and Munindar Singh

Joint Conversation Specification and Compliance

Shamimabi Paurobally and Michael Wooldridge

Designing Protocols for Agent Institutions

Huib Aldewereld, Frank Dignum, and John-Jules Meyer

Deriving Agent-Centred Representations of Protocols Described Using Propositional Statecharts

Hywel Dunn-Davies and Jim Cunningham

Toward Verifying Commitment Protocols and their Compositions

Nirmit Desai, Zhengang Cheng, Amit Chopra, and Munindar Singh

Interactive Dynamic Influence Diagrams

Kyle Polich and Piotr Gmytrasiewicz

A Component Based Approach to Standardising Agent Communication

Frank Guerin and Wamberto Vasconcelos

Computing effective communication policies in multiagent systems

Doran Chakraborty and Sandip Sen

Group d: Multiagent Learning

Transfer via Inter-Task Mappings in Policy Search Reinforcement Learning

Matthew Taylor, Shimon Whiteson, and Peter Stone

Multiagent Reinforcement Learning and Self-Organization in a Network of Agents

Sherief Abdallah and Victor Lesser

SMILE: Sound Multiagent Incremental LEarning ;-)

Gauvain Bourgne, Henry Soldano, and Amal El Fallah-Seghrouchni

Theoretical Advantages of Lenient Q-learners: An Evolutionary Game Theory Perspective

Liviu Panait and Karl Tuyls

Reducing the Complexity of Multiagent Reinforcement Learning
Andriy Burkov and Brahim Chaib-draa
Parallel Reinforcement Learning with Linear Function Approximation
Matthew Grounds and Daniel Kudenko
Multiagent Learning in Adaptive Dynamic Systems
Andriy Burkov and Brahim Chaib-draa
Regret Based Dynamics: Convergence in Weakly Acyclic Games
Jason Marden, Gurdal Arslan, and Jeff Shamma
Sharing Experiences to Learn User Characteristics in Dynamic Environments with Sparse Data
David Sarne and Barbara J. Grosz
Reinforcement Learning in Extensive Form Games with Incomplete Information: the Bargaining Case Study
Alessandro Lazaric, Enrique Munoz de Cote, Nicola Gatti, and Marcello Restelli

Group e: Applications and Computational Environments

A Reinforcement Learning Based Distributed Search Algorithm for Hierarchical Peer-to-Peer Information
Haizheng Zhang and Victor Lesser
Estimating Information Value in Collaborative Multi-Agent Planning Systems
David Sarne and Barbara J. Grosz
Information Searching and Sharing in Large-Scale Dynamic Networks
George A. Vouros
Modeling the Provenance of Data in Autonomous Systems
Simon Miles, Steve Munroe, Michael Luck, and Luc Moreau
A Methodology for 3D Electronic Institutions
Anton Bogdanovych, Marc Esteva, Simeon Simoff, Carles Sierra, and Helmut Berger
An Advanced Bidding Agent for Advertisement Selection on Public Displays
Alex Rogers, Esther David, Terry Payne, and Nick Jennings
An Incentive Mechanism for Message Relaying in Unstructured Peer-to-Peer Systems
Cuihong Li, Bin Yu, and Katia Sycara
Bidding Optimally in Concurrent Second-Price Auctions of Perfectly Substitutable Goods
Enrico Gerding, Rajdeep Dash, David Yuen, and Nick Jennings
Overlay Networks for Task Allocation and Coordination in Dynamic Large-Scale Networks of Cooperative Agents
Christina Theocharopoulou, Ioannis Partsakoulakis, George A. Vouros, and Konstantinos Stergiou
Collaboration among a Satellite Swarm
Grégory Bonnet and Catherine Tessier
Solving Large TAEMS Problems Efficiently by Selective Exploration and Decomposition
Jianhui Wu and Edmund Durfee

Group f: Cognitive Models for Agents

Cognitive and Social Simulation of Criminal Behavior
Tibor Bosse, Charlotte Gerritsen, and Jan Treur

Interactions between Market Barriers and Communication Networks in Marketing Systems
Ian Durbach and Jan Hofmeyr
Realistic Cognitive Load Modeling for Enhancing Shared Mental Models in Human-Agent Collaboration
Xiaocong Fan and John Yen
A Computational Model of Human Interaction and Planning for Heterogeneous Multi-Agent Systems
Alexandre Pauchet, Nathalie Chaignaud, Amal El Fallah-Seghrouchni
Forming and Scaffolding Human Coalitions with a Multiagent Framework
Leen-Kiat Soh, Nobel Khandaker
Multiagent Based Construction for Human-like Architecture
Yifeng ZENG, Dennis Plougman Buus, Jorge Cordero Hernandez

Group g: Mechanism Design
Coalition Formation under Uncertainty: Bargaining Equilibria and the Bayesian Core Stability Concept
Georgios Chalkiadakis, Evangelos Markakis, and Craig Boutilier
Eliciting Single-Peaked Preferences Using Comparison Queries
Vincent Conitzer
On the Robustness of Preference Aggregation in Noisy Environments
Ariel Procaccia, Jeffrey Rosenschein, and Gal Kaminka
Requirement Driven Agent Collaboration based on Automated Mechanism Design
Liwei Zheng and Zhi Jin
Constraint Satisfaction Algorithms for Graphical Games
Vishal Soni, Satinder Singh, and Michael Wellman
Factoring Games to Isolate Strategic Interactions
George Davis, Michael Benisch, Kathleen Carley, and Norman Sadeh
Sequential Decision Making in Parallel Two-Sided Economic Search
David Sarne and Teijo Arponen

Group h: Cooperation, Coordination, and Teamwork
Determining Confidence When Integrating Contributions from Multiple Agents
Raphen Becker and Dan Corkill
Exploiting Factored Representations for Decentralized Execution in Multi-agent Teams
Maayan Roth, Reid Simmons, Manuela Veloso
Towards Collaborative Task & Team Maintenance
Gal Kaminka, Ari Yakir, Dan Erusalimchik, and Nirom Cohen-Nov
Agent Coordination by Trade-off between Locally Diffusion Effects and Socially Structural Influences
Yichuan Jiang, Jiuchuan Jiang, and Toru Ishida
Provisioning Heterogeneous and Unreliable Providers for Service Workflows
Sebastian Stein, Nick Jennings, and Terry Payne
The effect of task and environment factors on M.A.S. coordination and reorganization
Mattijs Ghijsen, Wouter Jansweijer, and Bob Wielinga
ARTS: Agent-oriented Robust Transactional System
Mingzhong Wang, Amy Unruh, and Ramamohanarao Kotagiri
Distributed Management of Flexible Times Schedules

Stephen Smith, Anthony Gallagher, Terry Zimmerman, Laura Barbulescu, and Zack Rubinstein
Commitment-Driven Distributed Joint Policy Search
Stefan Witwicki and Edmund Durfee
Distributed Task Allocation in Social Networks
Mathijs de Weerdt, Yingqian Zhang, and Tomas Klos
Towards a Logical Theory of Coordination and Joint Ability
Hojjat Ghaderi, Hector Levesque, and Yves Lesperance
Implementing the Maximum of Monotone Algorithms
Liad Blumrosen

Group i: Formal Models of Agency
An Adversarial Environment Model for Bounded Rational Agents in Zero-Sum Interactions
Inon Zuckerman, Sarit Kraus, Jeffrey Rosenschein, and Gal Kaminka
Incentive Compatible Ranking Systems
Alon Altman and Moshe Tennenholtz
Reasoning about Judgment and Preference Aggregation
Thomas Ågotnes, Wiebe van der Hoek, and Michael Wooldridge
Programming and Simulation of Quantum Search Agents
Matthias Klusch and René Schubotz
A Quantified Epistemic Logic for Reasoning about Multi-Agent Systems
Francesco Belardinelli and Alessio Lomuscio
A General Framework for Reasoning about Rational Agents
Wojtek Jamroga and Nils Bulling

Group j: Societal Aspects
A Formal Road from Institutional Norms to Organizational Structures
Davide Grossi, Frank Dignum, and John-Jules Meyer
Distributed Norm Management in Regulated Multi-Agent Systems
Dorian Gaertner, Andres Garcia-Camino, Pablo Noriega, Juan Antonio Rodriguez-Aguilar, and Wamberto Vasconcelos
Resolving Conflict and Inconsistency in Norm-Regulated Virtual Organizations
Wamberto Vasconcelos, Martin Kollingbaum, and Timothy Norman
Friends No More: Norm Enforcement in Multi-Agent Systems
Adrian Perreau de Pinninck, Carles Sierra, and Marco Schorlemmer

Thursday, May 17

1:30 – 3:00 Poster Session 2 (92 posters)

Group a: Multiagent Learning

A Framework for Agent-Based Distributed Machine Learning and Data Mining
Jan Tozicka, Michael Rovatsos, and Michal Pechoucek

Automatic Feature Extraction for Autonomous General Game Playing Agents
David Kaiser

Batch Reinforcement Learning in a Complex Domain
Shivaram Kalyanakrishnan and Peter Stone

Model-Based Function Approximation in Reinforcement Learning
Nicholas Jong and Peter Stone

Aggregation in multi-agent systems and the problem of truth-tracking
Pigozzi Gabriella and Stephan Hartmann

Adapting in Agent-Based Markets: A Study from TAC SCM
David Pardoe and Peter Stone

Reinforcement Learning with Utility-aware Agents for Market-based Resource Allocation
Eduardo Gomes and Ryszard R. Kowalczyk

Towards Reinforcement Learning Representation Transfer
Matthew Taylor and Peter Stone

Group b: Auctions and Electronic Markets

A Winner Determination Algorithm for Auction-Based Decentralized Scheduling
Chun Wang, Hamada Ghenniwa, and Weiming Shen

Bidding Algorithms for a Distributed Combinatorial Auction
Benito Mendoza and Jose Vidal

Outperforming the Competition in Multi-Unit Sealed Bid Auctions
Ioannis Vetsikas and Nick Jennings

Winner Determination for Mixed Multi-unit Combinatorial Auctions via Petri Nets
Andrea Giovannucci, Juan Antonio Rodriguez-Aguilar, Jesus Cerquides, and Ulle Endriss

Average-Case Tractability of Manipulation in Elections via the Fraction of Manipulators
Ariel Procaccia and Jeffrey Rosenschein

Marked-Driven Agents with Uncertain and Dynamic Outside Options
Fenghui Ren, Kwang Mong Sim, and Minjie Zhang

Infinitesimal Nash Transfers for Resource Allocation in Strong Social Alliances
Paul-Amaury Matt and Francesca Toni

An Incentive Mechanism for Eliciting Fair Ratings of Sellers in E-Marketplaces
Jie Zhang and Robin Cohen

A Service-Oriented Marketplace approach for Next Generation Service Infrastructures
Donna Griffin and Dirk Pesch

Online Auctions for Bidders with Interdependent Values
Florin Constantin, Takayuki Ito, and David Parkes

Group c: Distributed Constraint Processing

A Complete Distributed Constraint Optimization Method for Non-Traditional Pseudotree Arrangements
James Atlas and Keith Decker

Optimal On-line Scheduling in Stochastic Multi-Agent Systems in Continuous Space and Time
Wim Wiegerinck, Bart van den Broek, and Hilbert Kappen

Robust Coordination to Sustain Throughput of an Unstable Agent Network
Rajesh Gautam and Kazuo Miyashita

Sequential Resource Allocation in Multi-agent Systems with Uncertainties
Jianhui Wu and Edmund Durfee

Periodic Real-Time Resource Allocation for Teams of Progressive Processing Agents
dibangoye gilles, Mouaddib Abdel-Illah, and Brahim Chaib-draa

Reciprocal Negotiation Over Shared Resources in Agent Societies
Sabyasachi Saha and Sandip Sen

Unifying Distributed Constraint Algorithms in a BDI Negotiation Framework
Bao Chau Le Dinh and Kiam Tian Seow

Matrix-Based Representation for Coordination Fault Detection: A Formal Approach
Meir Kalech, Michael Lindner, and Gal Kaminka

Distributed Constraint Propagation for Diagnosis of Faults in Physical Processes
Ana Bazzan and Bruno Silva

Group d: Multiagent Planning

Distributed Path Planning for Mobile Robots using a Swarm of Interacting Reinforcement Learners
Christopher Vigorito

Dynamics Based Control with an Application to Area-Sweeping Problems
Zinovi Rabinovich, Jeffrey Rosenschein, and Gal Kaminka

Graph-Based Multi-agent Replanning Algorithm
Jian Feng Zhang, Xuan Thang Nguyen, and Ryszard Kowalczyk

Towards a Formal Framework for Multi-Objective Multi-Agent Planning
Mouaddib Abdel-Illah, Boussard Matthieu, and Bouzid Maroua

Knowledge and Observations in the Situation Calculus
Ryan Kelly and Adrian Pearce

Conflict Estimation of Abstract Plans for Multi-Agent Systems
Toshiharu Sugawara, Satoshi Kurihara, Toshio Hirotsu, Kensuke Fukuda, and Toshihiro Takada

Diagnosis of plan step errors and plan structure violations
Nico Roos, Cees Witteveen, Adriaan ter Mors, and Xiaoyu Mao

Integrating Motivation with Planning
Alexandra Coddington

Group e: Environments and Implementation Techniques

Implementing Commitment-Based Interactions
Michael Winikoff

Normative System Games
Thomas Ågotnes, Wiebe van der Hoek, and Michael Wooldridge
Operational Semantics of Multiagent Interactions
Juan Manuel Serrano and Sergio Saugar
Modular Interpreted Systems
Thomas Ågotnes and Wojtek Jamroga
A Platform for Massive Agent-based Simulation and its Evaluation
Gaku Yamamoto, Hideki Tai, and Hideyuki Mizuta
The IRM4S model: the Influence/Reaction principle for multiagent based simulation
Fabien Michel
A WSA-Based Architecture for Building Multi-Agent Systems
Aluizio Haendchen Filho, Hércules do Prado, and Carlos J. P. de Lucena
Mass Programmed Agents for Simulating Human Strategies in Large Scale Systems
Michal Chalamish, David Sarne, and Sarit Kraus
Breaking into industry: tool support for multiagent systems
Simon Lynch and Keerthi Rajendran
Deterministic Nonlinear Modeling of Ant Algorithm with Logistic Multi-Agent System
Rodolphe Charrier, François Charpillet, and Christine Bourjot
Practical Extensions in Agent Programming Languages
Mehdi Dastani, Dirk Hobo, and John-Jules Meyer
Predictive Fault Tolerance in Multi-Agent Systems: a Plan-Based Replication Approach
Alessandro Almeida, Samir Aknine, Jean-Pierre Briot, and Jacques Malenfant
Filters for Semantic Service Composition in Service-oriented Multiagent Systems
Alberto Fernández and Sascha Ossowski
Towards Reflective Mobile Agents for Resource-Constrained Mobile Devices
Conor Muldoon, Gregory O'Hare, and John Bradley
Prediction Horizons in Polyagent Models
Van Parunak, Ted Belding, and Sven Brueckner
Towards Simulating Billions of Agents in Thousands of Seconds
I. V. Aprameya Rao, Manish Jain, and Kamalakar Karlapalem
Building Small-Worlds in Unstructured p2p Networks Using a Multi-Agent Bayesian Inference Mechanism
Prithviraj Dasgupta

Group f: Formal Models of Agency

A Temporal Epistemic Logic with a Reset Operation
Alessio Lomuscio and Bozena Wozna
Agents, Beliefs, and Plausible Behavior in a Temporal Setting
Nils Bulling and Wojtek Jamroga
A Grounded Specification Language for Agent Programs
Mehdi Dastani, M. Birna van Riemsdijk, and John-Jules Meyer
Contextual Deliberation of Cognitive Agents in Defeasible Logic
Guido Governatori, Mehdi Dastani, Antonino Rotolo, Insu Song, and Leendert van der Torre
A Design Framework for Generating BDI-agents from Goal Models

Loris Penserini, Anna Perini, Angelo Susi, Mirko Morandini, and John Mylopoulos

The A&A Approach for Developing Cognitive MAS: Conceptual Framework and Prototyping Technologies
Alessandro Ricci, Mirko Viroli, and Andrea Omicini

From Desires to Intentions through Dialectical Analysis
Nicolás Rotstein, Alejandro García, and Guillermo Simari

Convergence and Rate of Convergence of a Simple Ant Model
Amine Boumaza and Bruno Scherrer

Delegation and Mental States
Emiliano Lorini, Nicolas Troquard, Andreas Herzig, and Cristiano Castelfranchi

Model-Based Belief Merging without Distance Measures
Verónica Borja and Pilar Pozos

Group g: Argumentation and Negotiation

A Multilateral Multi-Issue Negotiation Protocol
Miniar Hemaissia, Amal El Fallah-Seghrouchni, Christophe Labreuche, and Juliette Mattioli

Approximate and Online Multi-Issue Negotiation
Shaheen Fatima, Michael Wooldridge, and Nick Jennings

A Randomized Method for the Shapley Value for the Voting Game
Shaheen Fatima, Michael Wooldridge, and Nick Jennings

A Unified and General Framework for Argumentation-Based Negotiation
Leila Amgoud, Yannis Dimopoulos, and Pavlos Moraitis

Learning and Joint Deliberation through Argumentation in Multi-Agent Systems
Santiago Ontanon and Enric Plaza

Arguing and Explaining Classifications
Leila Amgoud and Mathieu Serrurier

Searching for Joint Gains in Automated Negotiations Based on Multi-Criteria Decision Making Theory
Bao Vo and Lin Padgham

Group h: Social Aspects

Dynamically Learning Sources of Trust Information: Experience vs. Reputation
Karen Fullam and K. Suzanne Barber

Rumors and Reputation: Evaluating Multi-Dimensional Trust within a Decentralized Reputation System
Steven Reece, Alex Rogers, Stephen Roberts, and Nick Jennings

Presumptive Selection of Trust Evidence
Pierpaolo Dondio and Stephen Barrett

Agent-based Model of Impact of Socioeconomic Stressors: A DYNAMIC Network Perspective
Shah Jamal Alam, Ruth Meyer, and Emma Norling

Reducing the complexity of logics for multiagent systems
Marcin Dziubinski, Rineke Verbrugge, and Barbara Keplicz

A Model of a Trust-Based Recommendation System on a Social Network
Frank Walter, Stefano Battiston, and Frank Schweitzer

Strategy Recommender Agents (ALEX)-The Methodology

Ronald Ruiz Ordoñez, Josep Lluis de la Rosa I Esteva, and Javier Guzman-Obando

InterPol: A Policy Framework for Managing Trust and Privacy in Referral Networks
Yathiraj Udupi and Munindar Singh

SSDPOP: Improving the Privacy of DCOP with Secret Sharing
Rachel Greenstadt, Michael Smith, and Barbara J. Grosz

Towards Provably Secure Trust and Reputation Systems in E-Marketplaces
Reid Kerr and Robin Cohen

Mechanisms for Norm Emergence in Multi-Agent Societies
Bastin Tony Roy Savarimuthu, Maryam Purvis, Stephen Cranefield, and Martin Purvis

Social Comparison in Crowds: A Short Report
Gal Kaminka and Natalie Fridman

Socially Embedded Multi Agent Based Simulation of Financial Market
Kiyoshi Izumi, Hiroki Matsui, and Yutaka Matsuo

Robust Methods for Tracking Intelligent Agents Playing in an Artificial Financial Market
Nachi Gupta, Raphael Hauser, and Neil Johnson

Preservation of Obligations in a Temporal and Deontic Framework
Jan Broersen and Julien Brunel

Integrating Authority, Deontics, and Communications within a Joint Intention Framework
Marcus Huber, Sanjeev Kumar, David McGee, and Sean Lisse

Making Social Choices from Individuals' CP-nets
Keith Purrington and Edmund Durfee

Reputation in the Joint Venture Game
Philip Hendrix and Barbara J. Grosz

Group i: Applications and Computational Environments

An Efficient Heuristic Approach for Security against Multiple Adversaries
Praveen Paruchuri, Jonathan Pearce, Milind Tambe, Fernando Ordonez, and Sarit Kraus

An Agent-Based Approach for Privacy-Preserving Recommender Systems
Richard Cissee and Sahin Albayrak

On the Benefits of Cheating by Self-Interested Agents in Vehicular Networks
Raz Lin, Sarit Kraus, and Yuval Shavitt

Physics Inspired Multiagent Model for Vehicle Platooning
Jean-Michel Contet, Franck Gechter, Pablo Gruer, and Abder Koukam

Towards Valuation-Aware Agent-Based Traffic Control
Heiko Schepperle, Klemens Böhm, and Simone Forster

Friday, May 18

1:30 – 3:00 Poster Session 3 (75 posters)

Group a: Perceptual and Embedded Agents

IFSA: Incremental Feature-Set Augmentation
Mazda Ahmadi, Matthew Taylor, and Peter Stone

On Discovery and Learning of PSR Models for Agents with Continuous Actions and Observations
David Wingate and Satinder Singh

Speeding Up Moving-Target Search
Sven Koenig, Maxim Likhachev, and Xiaoxun Sun

Towards Using Multiple Cues for Robust Object Recognition
Sarah Aboutalib and Manuela Veloso

Group b: Mechanism Design and Game Theory

A Computational Characterization of Multiagent Games with Fallacious Rewards
Ariel Procaccia and Jeffrey Rosenschein

A Near-Optimal Strategy for a Heads-Up No-Limit Texas Hold'em Poker Tournament
Peter Bro Miltersen and Troels Bjerre Sørensen

Better Automated Abstraction Techniques for Imperfect Information Games, with Application to Texas HoldEm
Andrew Gilpin and Tuomas Sandholm

Empirical Game-Theoretic Analysis of the TAC Supply Chain Game
Patrick Jordan, Christopher Kiekintveld, and Michael Wellman

An Adaptive Strategy for Minority Games
Ka-man Lam and Ho-fung Leung

Routing Games with an Unknown Set of Active Players
Ashlagi Itai, Monderer Dov, and Moshe Tennenholtz

Requirement Driven Agent Collaboration based on Automated Mechanism Design
Liwei Zheng and Zhi Jin

Coalition Structure Generation with Worst Case Guarantees Based on Cardinality Structure
She-Xiong Su, Shan-Li Hu, and Chun-Yi Shi

Approval Voting: Local Search Heuristics and Approximation Algorithms for the Minimax Solution
Rob LeGrand, Evangelos Markakis, and Aranyak Mehta

Group c: Cooperative Distributed Problem Solving

A Globally Optimal Algorithm for TTD-MDPs
Sooraj Bhat, David Roberts, Mark Nelson, Charles Isbell, and Michael Mateas

A Q-Decomposition and Bounded RTDP Approach to Resource Allocation
Plamondon Pierrick, Brahim Chaib-draa, and Abder Rezak Benaskeur

Combinatorial Resource Scheduling for Multiagent MDPs
Dmitri Dolgov, Michael James, and Michael Samples

Organizational Self-Design in Semi-dynamic Environments
Sachin Kamboj and Keith Decker

DisLRP$_\alpha$: α-approximation in Generalized Mutual Assignment
Katsutoshi Hirayama

A Swarm Based Approximated Algorithm to the Extended Generalized Assignment Problem (E-GAP)
Paulo Ferreira Jr., Felipe Boffo, and Ana Bazzan

A Statistical Decision-Making Model for Choosing between Multiple Alternatives
Shulamit Reches, Shavit Talman, and Sarit Kraus

Dynamic Task Allocation within an Open Service-Oriented MAS Architecture
Ivan Jureta, Stephane Faulkner, Youssef Achbany, and Marco Saerens

Managing the Pedigree and Quality of Information in Dynamic Information Sharing Environments
Bin Yu, Srikanth Kallurkar, Ganesh Vaidyanathan, and Donald Steiner

Understanding Decentralised Control of Resource Allocation in a Minimal Multi-Agent System
Mariusz Jacyno, Seth Bullock, Michael Luck, and Terry Payne

Developing MAS with Automatic Agent Generation and Dynamic Task Allocation Mechanisms
Xiaoqin Zhang, Haiping Xu, and Bhavesh Shrestha

Building coalitions Involving Agents and Humans: Reports from Agent-Based Participatory Simulations
Paul Guyot and Shinichi Honiden

Multi-task Overlapping Coalition Parallel Formation Algorithm
Chao-feng Lin and Shan-Li Hu

Agents that Collude to Evade Taxes
Luis Antunes, Joao Balsa, and Helder Coelho

Achieving Cooperation among Selfish Agents in the Air Traffic Management Domain using Signed Money
Geert Jonker, Frank Dignum, and John-Jules Meyer

An Event-Driven Approach for Agent-Based Business Process Enactment
Payal Chakravarty and Munindar Singh

Executing Multi-Robot Cases through a Single Coordinator
Raquel Ros and Manuela Veloso

Distributed Coordination in Uncertain Multiagent Systems
Rajiv Maheswaran, Craig Rogers, Romeo Sanchez, and Pedro Szekely

On Agent Based Quantum Matchmaking
Matthias Klusch

Group d: Multiagent Planning

Graphical Models for Online Solutions to Interactive POMDPs
Prashant Doshi, Yifeng Zeng, and Qiongyu Chen

Letting Loose a SPIDER on a Network of POMDPs: Generating Quality Guaranteed Policies
Pradeep Varakantham, Janusz Marecki, Milind Tambe, and Makoto Yokoo

On Opportunistic Techniques for Solving Decentralized MDPs with Temporal Constraints
Janusz Marecki and Milind Tambe

Q-value Functions for Decentralized POMDPs
Frans Oliehoek and Nikos Vlassis
Utility-Based Plan Recognition: An Extended Abstract
Dorit Avrahami-Zilberbrand and Gal Kaminka
Planning and Defeasible Reasonning
Diego Garcia, Alejandro García, and Guillermo Simari
Distributed Intrusion Detection in Partially Observable Markov Decision Processes
Doran Chakraborty and Sandip Sen
Subjective Approximate Solutions for Decentralized POMDPs
Anton Chechetka and Katia Sycara
Modeling Plan Coordination in Multiagent Decision Processes
Ping Xuan

Group e: Ontologies

A Formal Model for Situated Semantic Alignment
Manuel Atencia and Marco Schorlemmer
A Multi-Agent System for Building Dynamic Ontologies
Kévin Ottens, Marie-Pierre Gleizes, and Pierre Glize
Argumentation over Ontology Correspondences in MAS
Loredana Laera, Ian Blacoe, Valentina Tamma, Terry Payne, Jérôme Euzenat, and Trevor Bench-Capon
Learning Consumer Preferences Using Semantic Similarity
Reyhan Aydogan and Pinar Yolum
Cooperative Evolution of Service Ontologies
Murat Sensoy and Pinar Yolum
An Ontology-Based Approach to Interoperability for Bayesian Agents
Elder Santos, Moser Fagundes, and Rosa Vicari
Models: An Experience on ART Testbed
Anarosa Brandão, Laurent Vercouter, Sara Casare, and Jaime Sichman

Group f: Agent Learning, Evolution, and Emergent Behavior

Using Priorities to Simplify Behavior Coordination
Brent Eskridge and Dean Hougen
Advice Taking in Multiagent Reinforcement Learning
Michael Rovatsos and Alexandros Belesiotis
Confidence-Based Policy Learning from Demonstration Using Gaussian Mixture Models
Sonia Chernova and Manuela Veloso
Forecasting Market Prices in a Supply Chain Game
Christopher Kiekintveld, Jason Miller, Patrick Jordan, and Michael Wellman
Conditional Random Fields for Activity Recognition
Douglas Vail, Manuela Veloso, and John Lafferty
Effective Tag Mechanisms for Evolving Coordination
Sandip Sen and Matt Matlock
Self-Organizing Social and Spatial Networks under What-if Scenarios
Il-Chul Moon and Kathleen Carley

Group g: Argumentation and Negotiation

Children in the Forest: towards a canonical problem of spatio-temporal collaboration

Yi Luo and Ladislau Boloni
Hypotheses Refinement under Topological Communication Constraints
Gauvain Bourgne, Gael Hette, Nicolas Maudet, and Suzanne Pinson
On the Relevance of Utterances in Formal Inter-agent Dialogues
Simon Parsons, Peter McBurney, Elizabeth Sklar, and Michael Wooldridge
A Generative Inquiry Dialogue System
Elizabeth Black and Anthony Hunter
Negotiation by Abduction and Relaxation
Chiaki Sakama and Katsumi Inoue
The LOGIC Negotiation Model
Carles Sierra and John Debenham
Multi-Agent Information System Using Mobile Agent Negotiation Based on a Flexible Transport Ontology
Hayfa Zgaya and Slim Hammadi
Negotiation Partners Selection Mechanism Based on Context-Dependent Similarity Relations
Jakub Brzostowski and Ryszard Kowalczyk
A Pareto Optimal Model for Automated Multi-attribute Negotiations
Guoming Lai, Katia Sycara, and Cuihong Li
Exchanging Reputation Values among Heterogeneous Agent Reputation
Using Iterative Narrowing to Enable Multi-Party Negotiations with Multiple Interdependent Issues
Hiromitsu Hattori, Mark Klein, Takayuki Ito
AutoMed -- An Automated Mediator for Bilateral Negotiations under Time Constraints
Michal Chalamish and Sarit Kraus
Workflow Coordination for Service-Oriented Multiagent Systems
Jiangbo Dang, Jingshan Huang, and Michael Huhns
An Equal Excess Negotiation Algorithm for Coalition Formation
Hrishikesh Goradia and Jose Vidal

Group h: Applications and Computational Environments
Distributed Agent-Based Air Traffic Flow Management
Kagan Tumer and Adrian Agogino
Computing the Banzhaf Power Index in Network Flow Games
Yoram Bachrach and Jeffrey Rosenschein
Scaling-Up Shopbots - a Dynamic Allocation-Based Approach
David Sarne, Sarit Kraus, and Takayuki Ito
Locating RF Emitters with Large UAV Teams
Paul Scerri, Robin Glinton, Sean Owens, Steven Okamoto, and Katia Sycara
Moving Target Search in Grid Worlds
Cagatay Undeger and Faruk Polat
An Agent-Based Model that Relates Investment in Education to Economic Prosperity
Yuqing Tang, Simon Parsons, and Elizabeth Sklar
An Agent-Based Methodology for Analyzing and Visualizing Educational Assessment
Elizabeth Sklar, Jordan Salvit, Christopher Camacho, William Liu, and Valerie Andrewlevich