TENTATIVE PROGRAM ECAI 2012 (VERSION 1)

TUESDAY
18:00
Opening Session
Invited Speaker Wolfram Burgard
Probabilistic Techniques for Mobile Robot Navigation
Opening Reception

WEDNESDAY
09:00
Invited Speaker Adrian Darwiche
Generalized Decision Diagrams: The Game is not over yet!

10:00
Coffee

10:30-12:40
Anniversary and Turing Session 1
Opening Remarks
Einar Fredriksson and Maria Fox
European Collaboration in Automated Reasoning
Alan Bundy
Biological, Computational and Robotic Connections with Kant’s Theory of Mathematical Knowledge
Aaron Sloman

Session 1A: Auctions, Mechanism Design and Trust
Almost-truthful Mechanisms for Fair Social Choice Functions
Julien Lesca and Patrice Perny
Multi-unit Auctions with a Stochastic Number of Asymmetric Bidders
Ioannis Vretakas, Sebastian Stein and Nicholas R. Jennings
Multi-unit Double Auction under Group Buying
Dengzi Zhao, Dongmo Zhang and Laurent Perrussel
A Protocol Based on a Game-Theoretic Dilemma to Prevent Malicious Coalitions in Reputation Systems
Grégory Bonnet
Trust-based Solution for Robust Self-configuration of Distributed Intrusion Detection Systems
Karel Bartos and Martin Rehak

Session 1B: Heuristic Search
A New Approach to the Snake-in-the-Box Problem
David Kinny
Speeding Up 2-way Number Partitioning
Jesus Cerquides and Pedro Meseguer
A Study of Local Minimum Avoidance Heuristics for SAT
Thach-Thao Duong, Duc Nghia Pham and Abdul Sattar
ideal Point Guided Iterative Deepening
Javier Coego, Lawrence Mandow and Jose Luis Pérez de la Cruz
Finding and Proving the Optimum: Cooperative Stochastic and Deterministic Search
Jean-Marc Alliot, Nicolas Durand, David Gianazza and Jean-Baptiste Gotteland

Session 1C: Machine Learning
Comparator selection for RPC with many labels
Michel Wilson, Cees Witteveen and Bob Huisman
A Bayesian Multiple Kernel Learning Framework for Single and Multiple Output Regression
Mehmet Gönen
Adversarial Label Flips Attack on Support Vector Machines
Han Xiao, Huang Xiao and Claudia Eckert
Compression-based AODE Classifiers
Giorgio Corani, Alessandro Antonucci and Rocco de Rosa
An Analysis of Chaining in Multi-Label Classification
Krzysztof Jerzy Dembczynski, Willem Waegeman and Eyke Hüllermeier

Session 1D: Planning and Scheduling
Enhancing predictability of schedules by task grouping
Michel Wilson, Cees Witteveen and Bob Huisman
Logic-based Benders Decomposition for Alternative Resource Scheduling with Sequence-Dependent Setups
Tony Tran and J. Christopher Beck
Complexity of Conditional Planning under Partial Observability and Infinite Executions
Jussi Rintanen
Opportunistic Branched Plans to Maximize Utility in the Presence of Resource Uncertainty
Amanda Coles
Preferring Properly: Increasing Coverage while Maintaining Quality in Anytime Temporal Planning
Patrick Eyerich

RuleML
Lunch
ECCAI Fellows Lunch

WEDNESDAY
14:30-16:10
Session 2A: Negotiation and Coordination
An efficient and adaptive approach to negotiation in complex environments
Siqi Chen and Gerhard Weiss
Guiding User Choice During Discussion, Examples and Justifications
Maier Fenster, Inon Zuckerman and Sait Kraus
Negotiating Concurrently with Unknown Opponents in Complex, Real-Time Domains
Colin R. Williams, Valentin Robu, Enrico H. Gerding and Nicholas R. Jennings
Coordinated Exploration with a Shared Goal in Costly Environments
Igor Rochlin, David Sarne and Moshe Laienfeld

Session 2B: Possibilistic Approaches
Hybrid Possibilistic Conditioning for Revision under Weighted Inputs
Salem Benferhat, Célia da Costa Pereira and Andrea G. B. Tettamanzi
Decision-making with Supeno Integrals: DUMI vs. MCDM
Miguel Couceiro, Didier Dubois, Henri Prade and Tamás Waldhaus
Three-valued possibilistic networks

158
338
570
253
409

211
567
210
326
439

240
14
299
16
446

576
35
398
405
85

164

456
360
322
<table>
<thead>
<tr>
<th>Session</th>
<th>Title &amp; Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 2C</td>
<td>Non-monotonic Reasoning</td>
</tr>
<tr>
<td></td>
<td>Maxi-Consistent Operators in Argumentation Srdjan Vesic</td>
</tr>
<tr>
<td></td>
<td>Large-scale Parallel Stratified Defeasible Reasoning Ilias Tachmazidis, Grigoris Antoniou, Giorgos Flouri, Spyros Katoulas and Lee McCluskey</td>
</tr>
<tr>
<td></td>
<td>A Ranking Semantics for First-Order Conditionals Gabriele Kern-Isberner and Matthias Thimm</td>
</tr>
<tr>
<td></td>
<td>Fixed-Parameter Algorithms for Closed World Reasoning Martin Lackner and Andreas Pflandler</td>
</tr>
<tr>
<td>Session 2D</td>
<td>Markov Decision Processes</td>
</tr>
<tr>
<td></td>
<td>Ordinal Decision Models for Markov Decision Processes Paul Wang</td>
</tr>
<tr>
<td></td>
<td>Path-Constrained MDPs: bridging the gap between probabilistic model-checking and MDP planning Florent Tischbi-Königsbach</td>
</tr>
<tr>
<td></td>
<td>Exploiting Expert Knowledge in Factored POMDPs Felix Müller, Christian Spath, Thomas Geier and Susanne Biundo</td>
</tr>
<tr>
<td></td>
<td>Sample-Based Policy Iteration for Constrained DEC-POMDPs Feng Wu, Nicholas R. Jennings and Weaing Chen</td>
</tr>
<tr>
<td>Session 2E</td>
<td>Description Logics (1)</td>
</tr>
<tr>
<td></td>
<td>Introducing Datatypes in DL-Lite Ognjen Säkovic and Diego Calvanese</td>
</tr>
<tr>
<td></td>
<td>DL-Lite with Attributes and Datatypes Alessandro Artale, Roman Kortchakov and Vladislav Rythikov</td>
</tr>
<tr>
<td></td>
<td>Updating inconsistent Description Logic Knowledge bases Maurizio Lenzerini and Domenico Fabio Savo</td>
</tr>
<tr>
<td></td>
<td>Concepts, Agents, and Coalitions in Alternating Time Wojciech Jamroga</td>
</tr>
</tbody>
</table>

**WEDNESDAY**

<table>
<thead>
<tr>
<th>Session 3A</th>
<th>ECCAI Best Dissertation Talks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Honorable mention: Dynamic Magic Sets Mario Alviano</td>
</tr>
<tr>
<td></td>
<td>Honorable mention: The evolution of grounded spatial language Michael Spranger</td>
</tr>
<tr>
<td></td>
<td>Best Dissertation: Approaches to Model Learning for Mobile Manipulation Robots Jürgen Sturm</td>
</tr>
<tr>
<td>Session 3B</td>
<td>Search in Games</td>
</tr>
<tr>
<td></td>
<td>Improving Local Decisions in Adversarial Search Brandon Wilson, Inon Zuckerman, Austin Parker and Dana S. Nau</td>
</tr>
<tr>
<td></td>
<td>Game-theoretic Approach to Adversarial Plan Recognition Vilam Livy, Radek Přibl, Jan Štěborek, Branislav Bosanský and Michal Pechouček</td>
</tr>
<tr>
<td></td>
<td>Multiple-Outcome Proof Number Search Abdallah Saffidine and Tristan Cazenave</td>
</tr>
<tr>
<td>Session 3C</td>
<td>Agent and Game Learning</td>
</tr>
<tr>
<td></td>
<td>Efficient Crowdsourcing of Unknown Experts using Multi-Armed Bandits Long Tran-Thanh, Sebastian Stein, Alex Rogers and Nicholas R. Jennings</td>
</tr>
<tr>
<td></td>
<td>Creating Features from a Learned Grammar in a Simulated Student Nan Li, Abraham Schreiber, William W. Cohen and Kenneth R. Koedinger</td>
</tr>
<tr>
<td></td>
<td>Learning to Play Simplified Boardgames by Observing Yngve Björnsson</td>
</tr>
<tr>
<td>Session 3D</td>
<td>Actions, Change and Causality</td>
</tr>
<tr>
<td></td>
<td>Representing Value Functions with Recurrent Binary Decision Diagrams Daniel Beck and Gerhard Lakemeyer</td>
</tr>
<tr>
<td></td>
<td>Strategic and Epistemic Reasoning for the Game Description Language GDL-II Ji Ruan and Michael Theislerch</td>
</tr>
<tr>
<td></td>
<td>Planning as Quantified Boolean Formula Michael Cashmore, Maria Fox and Enrico Giunchiglia</td>
</tr>
<tr>
<td>Session 3E</td>
<td>Ontologies</td>
</tr>
<tr>
<td></td>
<td>Inconsistency Handling in Datalog+. Ontologies Thomas Lukasiewicz, Maria Vaina Martínez and Gerardo I. Simari</td>
</tr>
<tr>
<td></td>
<td>Large-scale Interactive Ontology Matching: Algorithms and Implementation Ernesto Jiménez-Ruiz, Bernardo Cuenca Grau, Yujiao Zhou and Ian Horrocks</td>
</tr>
<tr>
<td></td>
<td>Context-Aware Access Control for RDF Graph Stores Luca Costabello, Serena Villata and Fabien Gandon</td>
</tr>
</tbody>
</table>

**THURSDAY**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Invited Speaker Tom Mitchell</td>
</tr>
<tr>
<td></td>
<td>Never Ending Learning</td>
</tr>
</tbody>
</table>

**16:10-16:45**

**Coffee**

**16:45-18:00**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title &amp; Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 3A</td>
<td>ECCAI Best Dissertation Talks</td>
</tr>
<tr>
<td></td>
<td>Honorable mention: Dynamic Magic Sets Mario Alviano</td>
</tr>
<tr>
<td></td>
<td>Honorable mention: The evolution of grounded spatial language Michael Spranger</td>
</tr>
<tr>
<td></td>
<td>Best Dissertation: Approaches to Model Learning for Mobile Manipulation Robots Jürgen Sturm</td>
</tr>
<tr>
<td>Session 3B</td>
<td>Search in Games</td>
</tr>
<tr>
<td></td>
<td>Improving Local Decisions in Adversarial Search Brandon Wilson, Inon Zuckerman, Austin Parker and Dana S. Nau</td>
</tr>
<tr>
<td></td>
<td>Game-theoretic Approach to Adversarial Plan Recognition Vilam Livy, Radek Přibl, Jan Štěborek, Branislav Bosanský and Michal Pechouček</td>
</tr>
<tr>
<td></td>
<td>Multiple-Outcome Proof Number Search Abdallah Saffidine and Tristan Cazenave</td>
</tr>
<tr>
<td>Session 3C</td>
<td>Agent and Game Learning</td>
</tr>
<tr>
<td></td>
<td>Efficient Crowdsourcing of Unknown Experts using Multi-Armed Bandits Long Tran-Thanh, Sebastian Stein, Alex Rogers and Nicholas R. Jennings</td>
</tr>
<tr>
<td></td>
<td>Creating Features from a Learned Grammar in a Simulated Student Nan Li, Abraham Schreiber, William W. Cohen and Kenneth R. Koedinger</td>
</tr>
<tr>
<td></td>
<td>Learning to Play Simplified Boardgames by Observing Yngve Björnsson</td>
</tr>
<tr>
<td>Session 3D</td>
<td>Actions, Change and Causality</td>
</tr>
<tr>
<td></td>
<td>Representing Value Functions with Recurrent Binary Decision Diagrams Daniel Beck and Gerhard Lakemeyer</td>
</tr>
<tr>
<td></td>
<td>Strategic and Epistemic Reasoning for the Game Description Language GDL-II Ji Ruan and Michael Theislerch</td>
</tr>
<tr>
<td></td>
<td>Planning as Quantified Boolean Formula Michael Cashmore, Maria Fox and Enrico Giunchiglia</td>
</tr>
<tr>
<td>Session 3E</td>
<td>Ontologies</td>
</tr>
<tr>
<td></td>
<td>Inconsistency Handling in Datalog+. Ontologies Thomas Lukasiewicz, Maria Vaina Martínez and Gerardo I. Simari</td>
</tr>
<tr>
<td></td>
<td>Large-scale Interactive Ontology Matching: Algorithms and Implementation Ernesto Jiménez-Ruiz, Bernardo Cuenca Grau, Yujiao Zhou and Ian Horrocks</td>
</tr>
<tr>
<td></td>
<td>Context-Aware Access Control for RDF Graph Stores Luca Costabello, Serena Villata and Fabien Gandon</td>
</tr>
</tbody>
</table>

**11:30-12:00**

**ECCAI General Assembly**

**12:00-14:00**

**Visit to IBM Research**
<table>
<thead>
<tr>
<th>Session 4A: Computational Social Choice</th>
<th>Session 4B: Data Mining</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weighted Manipulation for Four-Candidate Llull Is Easy</td>
<td>Symmetries in Itemset Mining</td>
</tr>
<tr>
<td>Piotr Faliszewski, Edith Hemaspaandra and Hannie Schnaar</td>
<td>Said Jabbour, Lakhdar Sais, Yakoub Salhi and Karim Tabia</td>
</tr>
<tr>
<td>Combining Voting Rules Together</td>
<td>Extending Set-Based Dualization: Application to Pattern Mining</td>
</tr>
<tr>
<td>Nina Naroditskaya, Toby Walsh and Lirong Xia</td>
<td>Lhouari Nourine and Jean-Marc Petit</td>
</tr>
<tr>
<td>Choosing Combinatorial Social Choice by Heuristic Search</td>
<td>Hierarchical and Overlapping Co-Clustering of mRNA-mRNA Interactions</td>
</tr>
<tr>
<td>Minyi Li and Quoc Bao Vo</td>
<td>Gianluca Pio, Michelangelo Cori, Corrado Logli, Domenica D’Elia and Donato Malerba</td>
</tr>
<tr>
<td>Online Voter Control in Sequential Elections</td>
<td>Multirelational Consensus Clustering with Nonnegative Decompositions</td>
</tr>
<tr>
<td>Edith Hemaspaandra, Lane A. Hemaspaandra and Jörg Rothe</td>
<td>Liviu Badia</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session 4C: Planning (1)</th>
<th>Session 4D: Spatial and Temporal Reasoning</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Exploiting Structures of Classical Planning Problems: Generalising Entanglements</td>
<td>SAT vs. Search for Qualitative Temporal Reasoning</td>
</tr>
<tr>
<td>Lukas Chrapa and Lee McCluskey</td>
<td>Jinho Huang</td>
</tr>
<tr>
<td>Macros, Reactive Plans and Compact Representations</td>
<td>Nearness Rules and Scaled Proximity</td>
</tr>
<tr>
<td>Christer Bäckström, Anders Jonsson and Peter Jonsson</td>
<td>Özgür Töre, Rolf Grütter and Ralf Möller</td>
</tr>
<tr>
<td>From Macro Plans to Automata Plans</td>
<td>Combining DRA and CYC into a Network Friendly Calculus</td>
</tr>
<tr>
<td>Christer Bäckström, Anders Jonsson and Peter Jonsson</td>
<td>Malumbo Chipofya</td>
</tr>
<tr>
<td>Engineering Efficient Planners with SAT</td>
<td>Convex Solutions of RCC8 Networks</td>
</tr>
<tr>
<td>Jussi Rintanen</td>
<td>Steven Schockaert and Sanjiang Li</td>
</tr>
<tr>
<td>Propositional Planning as Optimization</td>
<td>Interval Temporal Logics over Finite Linear Orders: the Complete Picture</td>
</tr>
<tr>
<td>Andreas Sideris and Yannis Dimopoulos</td>
<td>Davide Bresolin, Dario Dell’Onica, Angelo Montanari, Pietro Sala and Guido Sciavicco</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session 5A: Constraints, Satisfiability and Learning</th>
<th>Session 5B: Description Logics (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improving Local Search for Random 3-SAT Using Quantitative Configuration Checking</td>
<td>Verification of Description Logic Knowledge and Action Bases</td>
</tr>
<tr>
<td>Chuan Luo, Kaie Su and Shaowei Cai</td>
<td>Babak Bagheri Hariri, Diego Calvanese, Giuseppe De Giacomo, Ricardo De Masellis, Paolo Felli and Marco Montali</td>
</tr>
<tr>
<td>A SAT-Based Approach for Discovering Frequent, Closed and Maximal Patterns in a Sequence</td>
<td>ExploitExplosion: Uniform Interpolation in General EL Terminologies</td>
</tr>
<tr>
<td>Emmanuel Coquery, Said Jabbour, Lakhdar Sais and Yakoub Salhi</td>
<td>Nadescha Nikitina and Sebastian Rudolph</td>
</tr>
<tr>
<td>Inconsistency Measurement based on Variables in Minimal Unsatisfiable Subsets</td>
<td>Complexity of Branching Temporal Description Logics</td>
</tr>
<tr>
<td>Guohui Xiao and Yue Ma</td>
<td>Victor Gutiérrez-Basulto, Jean Christoph Jung and Carsten Lutz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session 5C: Reasoning over Structured Data</th>
<th>Session 5D: Hybrid Reasoning and Learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extending Set-Based Dualization: Application to Pattern Mining</td>
<td>Hybrid Regression-Classification Models for Algorithm Selection</td>
</tr>
<tr>
<td>Lhouari Nourine and Jean-Marc Petit</td>
<td>Lars Kotthoff</td>
</tr>
<tr>
<td>Extending Set-Based Dualization: Application to Pattern Mining</td>
<td></td>
</tr>
</tbody>
</table>
Reconciling OWL and Non-monotonic Rules for the Semantic Web
Matthias Knorr, Pascal Hitzler and Frederick Maier

**Session SC: Multi-Disciplinary Approaches**

Towards a Complete Classical Music Companion
Andreas Arzt, Gerhard Widmer, Sebastian Böck, Reinhard Sonnenlitter and Harald Froschl

When intelligence is just a matter of copying
William Correa, Henri Prade and Gilles Richard

Solving Raven’s IQ-tests: An AI and Cognitive Modelling Approach
Marco Ragni and Stefanie Neubert

Best Reply Dynamics for scoring rules
Reyhané Reyhani and Mark C. Wilson

**Session SD: Perception and Robotics**

Improving Video Activity Recognition using Object Recognition and Text Mining
Tanvi S. Motwani and Raymond J. Mooney

Detecting Human Patterns in Laser Range Data
Theodoros Varvoudakas, Ioannis Giots and Stasinos Konstantopoulos

Routing for continuous monitoring by multiple micro UAVs in disaster scenarios
Vera Mersheeva and Gerhard Friedrich

Planning with Semantic Attachments: An Object-Oriented View
Andreas Hertle, Christian Dornhege, Thomas Keller and Bernhard Nebel

**Session SE: Argumentation**

What Does it Take to Enforce an Argument? Minimal Change in Abstract Argumentation
Ringo Baumann

A Probabilistic Semantics for Abstract Argumentation
Matthias Thimm

An empirical study of argumentation schemes for deliberative dialogue
Alice Tonio, Timothy J. Norman and Katia Sycara

Agent Strategies for ABA-based Information-seeking and Inquiry Dialogues
Xuwei Fan and Francesca Toni

**PAIS 2**

Cooperatives for Demand Side Management
Ramachandra Kota, Georgios Chaliakidas, Valentin Robu, Alex Rogers and Nicholas R. Jennings

Wind Speed Forecasting using Spatio-temporal Indicators
Orlando Odhos and Luis Torga

Predicting the Power Output of Distributed Renewable Energy Resources within a Broad Geographical Region
Athanasios Aris Panagopoulos, Georgios Chaliakidas and Effichis Koutoulis

A Reinforcement Learning Approach to Optimize the Longitudinal Behavior of a Partial Autonomous Driving Assistance System
Olivier Pietquin and Fabio Tango

**System Demonstrations and Poster Session**

**System Demonstrations**

An Infrastructure for Human Inclusion in MAS
Pablo Almajarco, Tomas Trescak, Inmaculada Rodriguez and Maite Lopez-Sanchez

Training Crisis Managers with PANDORA
Liz Bacon, Amedeo Costa, Luca Coraci, Gabriella Cortellessa, Riccardo De Benedictis, Sara Grilli, Jure Polutnik and Keith Strickland

FlowOpt: Bridging the Gap Between Optimization Technology and Manufacturing Planners
Roman Barták, Milan Jaska, Ladišav Novák, Vladimir Rovensky, Tomáš Skalicky, Martin Culy, Contsheahan and Dang Thanh-Tung

WintEst: Interacting with Social Networks of Smart Objects for Sharing Cultural Heritage and Supporting Sustainability
Luca Console, Giulia Bianino, Francesca Carmagnola, Federica Cena, Elisha Chiabrandò, Roberta Fumari, Cristina Gena, Pierluigi Grillo, Silvia Likavec, Ilaria Lombardi, Michele Miti, Claudia Picardi, Daniele Thesieier Dupré, Fabiana Venero, Rossana Simeoni, Fabrizio Antonelli, Vincenzo Cuciti, Matteo Demichelis, Fabrizio Franceschini, Marina Geymonat, Alessandro Marcengo, Dario Mana, Michele Mirabelli, Monica Peretto, Amón Rapp, Franco Fassio, Piercarlo Grimaldi and Fabio Torta

MoDiBot – Mobile Diagnostic Robot
Cristina Cristalli, Giacomo Angioni, Luca Lattanzio, Birgit Graf, Florian Weisshart and Georg Arbeiter

Metaheuristic-Aided Software Features Assembly
José del Sagrado, Isabel M.de Águila and Francisco J. Orellana

Designing KDO-Workflows via HTN-Planning
Jörg-Uwe Kietz, Floarea Serban, Abraham Berstein and Simon Fischer

Confidence: Ubiquitous Care System to Support Independent Living
Mitja Lustrek, Bostjan Kaluza, Bozida Cvetkovic, Erik Dovgan, Hristijan Gjoreski, Violeta Mirchevska and Matjaž Gams

Autonomous Construction with a Mobile Robot in a Resource-limited Environment: a Demonstration of the Integration of Perception, Planning and Action
Stéphane Magnenat, Alexey Gribovskiy and Francesco Mondada

WissKI: A Virtual Research Environment for Cultural Heritage
Martin Scholz and Guenter Goers

AGENTFLY: Multi-Agent Simulation of Air-Traffic Management
David Sisak, Premyl Volf, Dusan Pavlicek and Michal Pechoucek

ECAI Posters

A Stubborn Set Algorithm for Optimal Planning
Yusuf Alkazraji, Martin Wehrle, Robert Mattmüller and Malte Helmert

Preemption Operators
Philippe Besnard, Eric Grigorie and Sébastien Ramon

Reasoning for Agreement Technologies
Guido Boella and Leon Van der Torre

An Adaptive Clustering Model that Integrates Expert Rules and k-gram Statistics for Coreference
Razvan Bunescu

Mining extremes: Severe Rainfall and Climate Change
Dabashish Das, Evan Kodra, Zoran Obradovic and Auroop Ganguly

CAKES: Cross-lingual Wikipedia Knowledge Enrichment and Summarization
Valeria Fionda and Giuseppe Pirro

A Novel Way to Connect BnB-ADOPT++ with Soft AC
Patricia Gutierrez and Pedro Meseguer
Approximation of Steiner Minimum Trees in Planar Graphs Using Euclidian Steiner Minimum Trees

Synonymy Extraction From Semantic Networks Using String and Graph Kernel Methods

Katia Lida Kermanidis, Panagiotis Pandis, Costas Boletsis and Dimitra Chasanidou

Self-Assessing Agents for Explaining Language Change: A Case Study in German

An Alternative Eager Encoding of the All-Different Constraint over Bit-Vectors

Discovering Cross-language Links in Wikipedia through Semantic Relatedness

Zhangquan Zhou, Guilin Qi, Chang Liu, Pascal Hitzler and Raghava Mutharaju

On computing correct processes and repairs using partial behavioral models

Evolutionary Clustering on CUDA

Pavel Krömer, Jan Platys and Václav Sindař

Practical Reformulations With Table Constraints

Ruben Martínez, Vasco Manquinho and Indr Lycyn

Ontologising Semantic Relations into a Relationship Thesaurus

Hugo Gonzalo Oliveira and Paulo Gomes

Advances in Distributed Branch and Bound

Lars Otten and Rina Dechter

Intermediary Local Consistencies

Thierry Petit

The Consistency of Majority Rule

Daniele Porello

Probabilistic Path-Disruption Games

Anja Roy and Jörg Rothe

Towards a Declarative Spatial Reasoning System

Carl Schultz and Mehul Bhatt

An Alternative Eager Encoding of the All-Different Constraint over Bit-Vectors

Pavel Surynek

VDF-aware MCTS

David Tolpin and Solomon Eyal Shimony

Approximation of Steiner Minimum Trees in Planar Graphs Using Euclidian Steiner Minimum Trees

Bjoern Zincker

Reasoning with Fuzzy-EL+ Ontologies Using MapReduce

Zhangquan Zhou, Guolin Qi, Chang Liu, Pascal Hitzler and Raghava Mutharaju

LSA for Mining Hidden Information in Action Game Semantics

Katia Lida Kermanidis, Panagiotis Pandis, Costas Boletsis and Dimitra Chasanidou

WeMRT: Web-Mining for Translation

Mathieu Roche and Dana Mihaila-Gabaravecsvi

Master Orientation Tool

Alexandru Surpatean, Evgeni Smirnov and Nicolai Manie

An approach to multi-agent planning with incomplete information

Efficient Norm Emergence Through Experimental Dynamic Punishment

Samhar Mahmoud, Nathan Griffiths, Jeroen Keppers and Michael Luck

Partial Cooperation in Multi-agent Local Search

Alon Grubshtein, Roie Zivan and Amnon Meisels

Conservative Social Laws

Thomas Aznotes, Weibe van der Hoek and Michael Wooldridge

Approximate Tradeoffs on Matroids

Laurent Gourvès, Jérôme Monnot and Lydia Tlilane

An approach to multi-agent planning with incomplete information

Alejandro Torrence, Eva Onaindia and Óscar Sapena

Approximate Tradeoffs on Matroids

Laurent Gourvès, Jérôme Monnot and Lydia Tlilane

An approach to multi-agent planning with incomplete information

Alejandro Torrence, Eva Onaindia and Óscar Sapena

Towards a Declarative Spatial Reasoning System

Carl Schultz and Mehul Bhatt

An Alternative Eager Encoding of the All-Different Constraint over Bit-Vectors

Pavel Surynek

VDF-aware MCTS

David Tolpin and Solomon Eyal Shimony

Approximation of Steiner Minimum Trees in Planar Graphs Using Euclidian Steiner Minimum Trees

Bjoern Zincker

Reasoning with Fuzzy-EL+ Ontologies Using MapReduce

Zhangquan Zhou, Guolin Qi, Chang Liu, Pascal Hitzler and Raghava Mutharaju

LSA for Mining Hidden Information in Action Game Semantics

Katia Lida Kermanidis, Panagiotis Pandis, Costas Boletsis and Dimitra Chasanidou

WeMRT: Web-Mining for Translation

Mathieu Roche and Dana Mihaila-Gabaravecsvi

Master Orientation Tool

Alexandru Surpatean, Evgeni Smirnov and Nicolai Manie

An approach to multi-agent planning with incomplete information

Efficient Norm Emergence Through Experimental Dynamic Punishment

Samhar Mahmoud, Nathan Griffiths, Jeroen Keppers and Michael Luck

Partial Cooperation in Multi-agent Local Search

Alon Grubshtein, Roie Zivan and Amnon Meisels

Conservative Social Laws

Thomas Aznotes, Weibe van der Hoek and Michael Wooldridge

Approximate Tradeoffs on Matroids

Laurent Gourvès, Jérôme Monnot and Lydia Tlilane

An approach to multi-agent planning with incomplete information

Alejandro Torrence, Eva Onaindia and Óscar Sapena
Session 6D: Constraint Satisfaction, Optimisation and Programming
Joint Assessment and Restoration of Power Systems
Pascal Van Hentenryck, Nabeel Gillani and Carleton Coffrin
An O((\log n)^2) BC Algorithm for the Conjunction of an alldifferent and a linear inequality...
Nicolas Beldiceanu, Mats Carlsson, Thierry Petit and Jean-Charles Régis-Gain
A Path-Optimal GAC Algorithm for Table Constraints
Christophe Lecoutre, Chavalit Likvitvatavanong and Roland H. C. Yap
Here, There, But Not Everywhere: An Extended Framework for Qualitative Constraint Satisfaction
Weiming Liu and Sanjiang Li
Deciding Membership in a Class of Polyhedra
Salvatore Ruggieri

Session 6E1: Automated Reasoning
Implementing and Evaluating Provers for First-order Modal Logics
Christoph Benzmüller, Jens Otten and Thomas Raths
Efficient Reasoning in Multiagent Epistemic Logics
Gerhard Lakemeyer and Yves Lespérance
Knowledge-Based Programs as Plans: The Complexity of Plan Verification
Jérôme Lang and Bruno Zarattini

Session 6E1: Frontiers in AI
(Frontiers in AI) Recent Advances in Imprecise-Probabilistic Graphical Models
Gert de Cooman, Jasper De Bock and Arthur Van Camp
(Frontiers in AI) Developmental Mechanisms for Autonomous Life-Long Learning in Robots
Pierre-Yves Oudeyer

FRIDAY
14:30-16:30

Session 7A: Frontiers in AI
(Frontiers in AI) Executable Logic for Dialogical Argumentation
Elizabeth Black and Anthony Hunter
(Frontiers in AI) Computational Creativity: The Final Frontier?
Simon Colton and Geraint A. Wiggins
(Frontiers in AI) Lifted Probabilistic Inference
Kristian Kersting
(Frontiers in AI) Robot Skill Learning
Jan Peters, Katharina Hölling, Jens Köber, Duy Nguyen-Tuong and Oliver Körner

Session 7B: Preferences
The Possible Winner Problem with Uncertain Weight
Dorothea Baumeister, Magnus Roos, Jörg Rothé, Lena Schend and Lirong Xia
Bounded single-peaked width and proportional representation
Denis Cornez, Lucie Gauland and Olivier Spanjaard
Fair Division of Indivisible Goods under Risk
Charles Lumet, Sylvain Bouquet and Michel Lemaître
Justifying Dominating Options when Preferential Information is Incomplete
Christophe Labreuche, Nicolas Maudet and Wassilia Ouendane
Importance-based Semantics of Polynomial Comparative Preference Inference
Nic Wilson

Session 7C: Natural Language Processing (2)
Preference Extraction from Negotiation Dialogues
Anais Cadilhar, Nicholas Asher, Farhad Benamara, Vladimir Popescu and Mohammad Sack
Relation Mining in the Biomedical Domain using Entity-Level Semantics
Katerina Tymoshenko, Swapan Somasundaran, Vinodkumar Prabhakaran and Vinay Shet
Disambiguating Road Names in Test Route Descriptions using Exact All-Hop Shortest Path Algorithm
Xiao Zhang, Baojun Qiu, Prasenjit Mitra, Sen Xu, Alexander Klippel and Alan M. MacSachren
Combining Bootstrapping and Feature Selection for Improving a Distributional Thesaurus
Oliver Ferret
Using Learning to Rank Approach for Parallel Corpora Based Cross Language Information Retrieval
Hosein Azerbaynd, Azadeh Shakerly and Hesham Faiiz

Session 7D: Planning (2)
Symbolic A* Search with Pattern Databases and the Menge-and-Shrink Abstraction
Stefan Edelkamp, Peter Kissmann and Álvaro Torralba
AindyHerd: Parallel Planning with a Portfolio
Richard Valenzano, Hootan Nakhost, Martin Müller, Jonathan Schaeffer and Nathan Sturtevant
Width and Serialisation of Classical Planning Problems
Nir Lipovetsky and Hector Geffner
Case-Based Planning for Problems with Real-valued Fluents: Kernel Functions for Plan Retrieval
Afonso E. Gerevini, Alessandro Saetti and Ivan Serina
Tunneling and Decomposition-Based State Reduction for Optimal Planning
Raz Nissim, Udi Apsel and Ronen Brafman

Session 7E: Reinforcement Learning
Argumentation-Based Reinforcement Learning for RoboCup Soccer Keepaway
Yang Gao, Francesca Toni and Robert Craven
A Reinforcement-Learning Algorithm for Sampling Design in Markov-Random Fields
Mathieu Bonneau, Nathalie Peyrand and Régis Sabadain
Heuristically Accelerated Reinforcement Learning: Theoretical and Experimental Results
Reinaldo A.C. Bianchi, Carlos H. C. Ribeiro and Ann H. R. Costa
Towards Generalizing the Success of Monte-Carlo Tree Search beyond the Game of Go
António Gusmão and Tapani Raiko
Nested Monte-Carlo Tree Search for Online Planning in Large MDPs
Hendrik Baier and Mark H. M. Winands

Session 7F: Game-theoretic and Economic Foundations
An Anytime Algorithm for Finding the epsilon Core in Nontransferable Utility Coalitional Games
Weiming Liu and Sanjiang Li
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Talks</th>
</tr>
</thead>
</table>
| 16:30-17:00 | CLOSING SESSION | Greg Hines, Talal Rahwan and Nicholas R. Jennings  
Delegating Decisions in Strategic Settings  
Sarit Kraus and Michael Wooldridge  
Hard and Easy k-Typed Compact Coalitional Games: The Knowledge of Player Types Marks the Boundary  
Gianluigi Greco, Antonella Guzzo and Luigi Pontieri  
Iterative Algorithm for Solving Two-player Zero-sum Extensive-form Games with Imperfect Information  
Branislav Bosansky, Christopher Kiekintveld, Viliam Lisy and Michal Pechoucek  
A Robust Approach to Addressing Human Adversaries in Security Games  
James Pita, Richard John, Rajiv Maheswaran, Milind Tambe and Sarit Kraus |

Regular Talks will be 25min (i.e. 20 min talk + 5 min questions)  
Frontiers Talks will be 30 min (i.e. 25 min talk + 5 min questions)  
Talks in the Anniversary and Turing Session will be 40 min (i.e. 30 min talk + 10 min questions)