



The RoHOW workshop takes place in the Dülfer Saal and the program can be found under <http://ki2015.computational-logic.org/schedule/schedule-tuesday.html>

The other talks will take place in the building of the Fakultät Informatik, Nöthnitzer Strasse 46.

The HIDESt workshop takes place in APB/E08 and the program can be found under <http://ki2015.computational-logic.org/schedule/schedule-tuesday.html>

14:30 - 15:30	<p><b>PUK</b> <span style="float: right;">room <b>APB/2101</b></span></p>
	<p>Start of the workshop</p>
	<p style="text-align: center;"><b>Invited Talk</b></p> <p><b>Robert Mattmüller</b>  <i>Delete Relaxations for Planning with State-Dependent Action Costs</i></p> <p><b>Michael Barry and Rene Schumann</b>  <i>Dynamic and Configurable Mathematical Modelling of a Hydropower Plan</i></p>
<b>BREAK</b>	
16:00 - 19:00	<p><b>PUK</b> <span style="float: right;">room <b>APB/2101</b></span></p>
	<p><b>Stefan Edelkamp, Christoph Greulich, Mihai Pomarlan, Sarah Rashidian and Erion Plaku</b>  <i>Solving Multi-Goal, Multi-Group, and Inspection Problems via Traveling Salesman Tours</i></p>
	<p><b>Jürgen Sauer</b>  <i>Scheduling Regarding Energy Efficiency</i></p> <p><b>Silvan Sievers et al.</b>  <i>Abstraction, Symmetries &amp; Portfolios for Cost-Optimal Planning!?</i></p>
	<p><b>Fachgruppensitzung</b></p>
18 - 20:00	<p><b>Reception</b> <span style="float: right;"><b>William</b></span></p>
	<p><i>Address: Theaterstraße 2, 01067 Dresden</i></p>

The following talks will take place in the building of the Fakultät Informatik, Nöthnitzer Strasse 46.

<b>9.00 - 10:00</b>	<b>Session 1</b> <span style="float: right;">room <b>APB/E2026</b></span>
	<b>Yifan Yang, Jamal Atif and Isabelle Bloch</b> <i>Abductive Reasoning using Tableau Method for High-level Image Interpretation</i>
	<b>Mirco Josefiok and Jürgen Sauer</b> <i>Towards an Expert System for the Field of Neurology based on Fuzzy Logic</i>
<b>BREAK</b>	
<b>10.20 - 11:20</b>	<b>Session 2</b> <span style="float: right;">room <b>APB/E2026</b></span>
	<b>Madhura Thosar</b> <i>Rock, Paper, Scissor: What Can I Use In Place of a Hammer?</i>
	<b>Mentoring session with coffee</b> (as long as needed; planned is 30-60 minutes)
<b>BREAK</b>	

The following talks will take place in the building of the Fakultät Informatik, Nöthnitzer Strasse 46.

<b>DKB &amp; KIK</b>	room APB/E05	<b>NCI</b>	room APB/E06	<b>WLP</b>	room APB/E07
<b>Daan Apeldoorn</b> <i>Learning Rules for Cooperative Solving of Spatio-Temporal Problems</i>		<b>V. Kulikov</b> <i>Framework Theory - A Theory of Cognitive Semantics</i>		<b>Dietmar Seipel</b> <i>Knowledge Engineering for Hybrid Deductive Databases</i>	
<b>Paul Thorn, Christian Eichhorn, Gabriele Kern-Isberner and Gerhard Schurz</b> <i>Qualitative Probabilistic Inference with Default Inheritance</i>		<b>S. Thill</b> <i>Embodied Neuro-cognitive Integration</i>		<b>Stefan Brass and Heike Stephan</b> <i>Bottom-Up Evaluation of Datalog: Preliminary Report</i>	
				<b>Asmaa Afeefi</b> <i>Planning Problems and Fixpoint Semantics</i>	
<b>09:00 - 10:00</b>					

**BREAK**

<b>DKB &amp; KIK</b>	room APB/E05	<b>NCI</b>	room APB/E06	<b>WLP</b>	room APB/E07
<b>Haythem Ismail and Nourhan Ehab</b> <i>Algebraic Semantics for Graded Propositions</i>		<b>D. Porello, M. Cristani and R. Ferrari</b> <i>Integrating Ontologies and Computer Vision for Classification of Objects in Images</i>		<b>Adrian Rebola Pardo</b> <i>Refutationally Complete Hierarchic Theorem Proving with Definitions</i>	
<b>Massimiliano Giacomini, Thomas Linsbichler and Stefan Woltran</b> <i>On the Functional Completeness of Argumentation Semantics</i>		<b>F. van der Velde and M. de Kamps</b> <i>Ambiguity Resolution in a Neural Blackboard Architecture for Sentence Structure</i>		<b>Maged Shalaby, Slim Abdennadher, Nada Sharaf and Ghada Fakhry</b> <i>Learning Instance-Level Constraints in Folksonomies for Semi-supervised Clustering using CHR</i>	
				<b>Marija Kulas</b> <i>A Practical view on Renaming</i>	
<b>10:20 - 11:20</b>					

**BREAK**

11:40 - 12:00

**DKB & KIK** room APB/E05

**Bora Kumova**  
*Approximate Reasoning with Fuzzy-Syllogistic Systems*

**NCI** room APB/E06

**WLP** room APB/E07

**Sergio Antoy and Michael Hanus**  
*Default Rules in Functional Logic Programs*

12:00 - 13:00

**Invited Talk** (joint session with NCI@KI2015) room APB/E05

**Herbert Jaeger**  
*Shaping the Dynamics of Recurrent Neural Networks by Conceptors*

**WLP** room APB/E07

**GLP-meeting**

**LUNCH BREAK**

14:30 - 15:40

**Invited Talk** (joint session with NCI@KI2015 and WLP 2015) room APB/1004

**Steffen Hölldobler**  
*Human Reasoning, Logic Programs, and Connectionist Systems*  
**Closing**

18:00 - 20:00

**Reception** **William**

*Address: Theaterstraße 2, 01067 Dresden*

Conference Program

Wednesday, September 23, 2015

08:45 - 10:15	<b>Opening</b> (15 minutes) <span style="float: right;">room APB/E023</span>
	<b>Keynote</b>
	<b>Francesca Rossi</b> <i>Safety Constraints and Ethical Principles in Collective Decision Making Systems</i>
	<b>BREAK</b>
10:45 - 12:25	<b>Session 1</b> <span style="float: right;">room APB/E023</span>
	<b>Silvan Sievers, Martin Wehrle, Malte Helmert and Michael Katz</b> <i>An Empirical Case Study on Symmetry Handling in Cost-Optimal Planning as Heuristic Search</i>
	<b>Diedrich Wolter and Arne Kreutzmann</b> <i>Analogical Representation of RCC-8 for Neighborhood-Based Qualitative Spatial Reasoning</i>
	<b>Konstantin Yakovlev, Egor Baskin and Ivan Hramoin</b> <i>Grid-based Angle-constrained Path Planning</i>
	<b>Stefan Edelkamp and Paul Wichern</b> <i>Packing Irregular-Shaped Objects for 3D Printing</i>
	<b>Sebastian Stock, Masoumeh Mansouri, Federico Pecora and Joachim Hertzberg</b> <i>Hierarchical Hybrid Planning in a Mobile Service Robot</i>
	<b>LUNCH BREAK</b>
14:00 - 15:40	<b>Session 2</b> <span style="float: right;">room APB/E023</span>
	<b>Maximilian Jenders, Thorben Lindhauer, Gjergji Kasneci, Ralf Krestel and Felix Naumann</b> <i>A Serendipity Model For News Recommendation</i>
	<b>Ann-Katrin Becker, Jochen Sprickerhof, Martin Günther and Joachim Hertzberg</b> <i>Abducing Hypotheses about Past Events from Observed Environment Changes</i>
	<b>Stefan Oehmcke, Oliver Zielinski and Oliver Kramer</b> <i>Event Detection in Marine Time Series Data</i>
	<b>Justin Heinermann and Oliver Kramer</b> <i>Short-Term Wind Power Prediction with Combination of Speed and Power Time Series</i>
	<b>BREAK</b>
16:00 - 17:00	<b>Session 3</b> <span style="float: right;">room APB/E023</span>
	<b>Marc Finthammer and Christoph Beierle</b> <i>Towards a More Efficient Computation of Weighted Conditional Impacts for Relational Probabilistic Knowledge Bases under Maximum Entropy Semantics</i>
	<b>Christoph Beierle, Florian Brons and Nico Potyka</b> <i>A Software System Using a SAT Solver for Reasoning Under Complete, Stable, Preferred, and Grounded Argumentation Semantics</i>
	<b>Kinzang Chhogyal, Abhaya Nayak and Abdul Sattar</b> <i>On the KL Divergence of Probability Mixtures for Belief Contraction</i>
17:40	<b>GI KI Fachgruppenmeeting</b> <span style="float: right;">room APB/E023</span>

Conference Program

Thursday, September 24, 2015

09:00 - 10:15	<b>Keynote</b> <b>Molham Aref</b> <i>Declarative Probabilistic Programming</i>	room APB/E023
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**BREAK**

10:45 - 12:25	<b>Session 4</b> <b>Markus Schneider, Wolfgang Ertel and Guenther Palm</b> <i>Kernel Feature Maps from Arbitrary Distance Metrics</i> <b>Tim Vor der Brück and Steffen Eger</b> <i>Deriving a Primal Form for the Quadratic Power Kernel</i> <b>Lisa Posch, Arnim Bleier, Philipp Schaer and Markus Strohmaier</b> <i>The Polylingual Labeled Topic Model</i> <b>Myriam Bounhas, Henri Prade and Gilles Richard</b> <i>Oddness-based Classifiers for Boolean or Numerical Data</i> <b>Affan Pervez and Dongheui Lee</b> <i>A Componentwise Simulated Annealing EM Algorithm for Mixtures</i>	room APB/E023
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**LUNCH BREAK**

14:00 - 14:30	<b>Industry Talk</b> (30 minutes) <b>Roland Judas (Arago)</b> <i>Welcome Smart Machines. Please don't fire us!</i>	room APB/E023
	<b>Poster Session</b>	Foyer

**BREAK**

16:00 - 17:00	<b>Session 5</b> <b>Richard Cubek, Wolfgang Ertel and Günther Palm</b> <i>A Critical Review on the Symbol Grounding Problem as an Issue of Autonomous Agents</i> <b>Raïssa Yapan Dougnon, Philippe Fournier-Viger, Jerry Chun-Wei Lin and Roger Nkambou</b> <i>Accurate Online Social Network User Profiling</i> <b>Takumi Toyama and Daniel Sonntag</b> <i>Towards Episodic Memory Support for Dementia Patients by Recognizing Objects, Faces and Text in Eye Gaze</i>	room APB/E023
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18:30	<b>Dinner</b>	<b>Schloss Eckberg</b>
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Conference Program

Friday, September 25, 2015

09:00 - 10:15	<b>Keynote</b> <b>Ross D. King</b> <i>Automating Chemistry and Biology using Robot Scientists</i>	room APB/E023
<b>BREAK</b>		
10:45 - 12:25	<b>Session 6</b>  <b>Silvan Sievers and Malte Helmert</b> <i>A Doppelkopf Player Based on UCT</i> <b>Moritz Göbelbecker</b> <i>Assisting With Goal Formulation for Domain Independent Planning</i> <b>David Speck, Manuela Ortlieb and Robert Mattmüller</b> <i>Necessary Observations in Nondeterministic Planning</i> <b>Johannes Aldinger, Robert Mattmüller and Moritz Göbelbecker</b> <i>Complexity of Interval Relaxed Numeric Planning</i> <b>Shashank Shekhar and Deepak Khemani</b> <i>Improving Heuristics On-the-fly for Effective Search in Plan Space</i>	room APB/E023
<b>LUNCH BREAK</b>		
14:00 - 15:00	<b>Session 7</b>  <b>M. Fareed Arif, Carlos Mencia and Joao Marques-Silva</b> <i>Efficient Axiom Pinpointing with EL2MCS</i> <b>Francesco Kriegel</b> <i>Axiomatization of General Concept Inclusions in Probabilistic Description Logics</i> <b>Shasha Feng, Michel Ludwig and Dirk Walther</b> <i>Deciding Subsumers of Least Fixpoint Concepts w.r.t. General EL-TBoxes</i>	room APB/E023
15:00	<b>Farewell</b>	<b>Foyer</b>