

WARA-2010: AAI Workshop on Abstraction, Reformulation, and Approximation
July 12, 2010 • Atlanta, GA

Workshop Schedule

9:00 - 9:05	Opening Remarks <i>Gregory Provan and Ashish Sabharwal</i>
Session 1: ARA for Constraint Satisfaction Problems I	
9:05 - 9:30	Toward a Generalization and a Reformulation of Goods in SAT: Preliminary Report: <i>Djamal Habet, Philippe Jegou</i>
9:30 - 9:55	From Unsolvable to Solvable: An Exploration of Simple Changes <i>Susan L. Epstein, Xi Yun</i>
9:55 - 10:20	Fast d-DNNF Compilation with sharpSAT <i>Christian Muise, Sheila McIlraith, J. Christopher Beck, Eric Hsu</i>
10:20 - 11:00	<i>Coffee Break I</i>
Session 2: ARA in Machine Learning	
11:00 - 11:25	Evolutionary Tile Coding: An automated state abstraction algorithm for reinforcement learning: <i>Stephen Lin, Robert Wright</i>
11:25 - 11:50	Effects of Faulty Knowledge Engineering on Structured Classification Learning: <i>Joshua Jones, Ashok Goel</i>
11:50 - 12:15	Automatic Methods for Continuous State Space Abstraction <i>Steven Edelkamp, Robert Wright</i>
12:15 - 14:15	<i>Lunch Break</i>
Session 3: ARA for Reasoning in Combinatorial Search Spaces	
14:15 - 14:40	Abstracting Markov Networks <i>Lorenza Saitta, Christel Vrain</i>
14:40 - 15:05	Approximate Inference for Clusters in Solution Spaces <i>Lukas Kroc, Ashish Sabharwal, Bart Selman</i>
15:05 - 15:30	Parallel Best-First Search: The Role of Abstraction <i>Ethan Burns, Seth Lemons, Wheeler Ruml, Rong Zhou</i>
15:30 - 16:00	<i>Coffee Break II</i>
Session 4: ARA for Constraint Satisfaction Problems II	
16:00 - 16:25	Formulating Template Consistency in Inductive Logic Programming as a Constraint Satisfaction Problem: <i>Roman Bartak, Ondrej Kuzelka, Filip Zelezny</i>
16:25 - 16:45	Reformulation of Global Constraints in Answer Set Programming <i>Christian Drescher, Toby Walsh</i>
16:45 - 17:15	Open Discussion <i>The Role and Future of ARA in AI</i>