

DCR 09 Program

08:15 - 08:30 Opening

Session 1: New Approaches in DCR (SC: William Yeoh)

- 08:30 – 08:55 Satomi Baba, Naofumi Nishimura, Atsushi Iwasaki, Makoto Yokoo
Cooperative Problem Solving against Adversary: Quantified Distributed Constraint Satisfaction Problem
- 08:55 – 09:20 Alessandro Farinelli, Alex Rogers, Nick R. Jennings
Bounded Approximate Decentralised Coordination using the Max-Sum Algorithm
- 09:20 – 09:45 Robert Lass, Evan Sultanik, Rachel Greenstadt, William Regli
Robust Distributed Constraint Reasoning
- 09:45 – 10:00 Xavier Olive, Hiroshi Nakashima
Breaking Symmetries in Distributed Constraint Programming Problems

10:00 – 10:30 Coffee Break

Session 2: DCOPs, Search and Extensions (SC: Rachel Greenstadt)

- 10:30 – 10:55 William Yeoh, Roie Zivan, Sven Koenig
Discrepancy-Based Approach for Solving Distributed Constraint Optimization Problems
- 10:55 – 11:20 Alon Grubshtein, Tal Grinshpoun, Amnon Meisels, Roie Zivan
Asymmetric Distributed Constraint Optimization
- 11:20 – 11:45 Christopher Portway, Edmund H. Durfee
The Multi Variable Multi Constrained Distributed Constraint Optimization Framework
- 11:45 – 12:10 Ismel Brito, Pedro Meseguer
Distributed Cluster Tree Elimination

12:10 – 14:10 Lunch Break

Session 3: DCR under Uncertainties (SC: Christian Bessiere)

- 14:10 – 14:35 Thomas Leaute, Boi Faltings
E[DPOP]: Distributed Constraint Optimization under Stochastic Uncertainty using Collaborative Sampling
- 14:35 – 15:00 Matthew Taylor, Manish Jain, Prateek Tandon, Milind Tambe
Using DCOPs to Balance Exploration and Exploitation in Time-Critical Domains

15:00 – 15:30 Coffee Break

Session 4: Applications (SC: Katsutoshi Hirayama)

- 15:30 – 15:55 Roie Zivan, Robin Glinton, Katia Sycara
Distributed Constraint Optimization for large teams of mobile sensing agents
- 15:55 – 16:20 Shanjun Cheng, Anita Raja, Jiang(Linda) Xie, Ivan Howitt
A Distributed Constraint Optimization Algorithm for Dynamic Load Balancing in WLANs
- 16:20 – 16:35 Thomas Leaute, Brammert Ottens, Radoslaw Szymanek
FRODO 2.0: An Open-Source Framework for Distributed Constraint Optimization

Panel Session and Discussion (SC: Roie Zivan)

- 16:35 – 17:30 Topic: DCR Extensions Triggered by Applications
Panel: Boi Faltings, Amnon Meisels, Milind Tambe, Makoto Yokoo