

## Monday, January 6

<b>8:00 am - 8:45 am</b>	<b>Registration</b>
<b>8:45 am - 9:00 am</b>	<b>Opening remarks</b>
<b>9:00 am - 10:00 am</b>	<b>Keynote talk by Shlomo Zilberstein</b> <i>Challenges and New Directions in Planning for Long-Term Autonomy</i>
<b>10:00 am - 10:30 am</b>	<b>Coffee Break</b>
<b>10:30 am - 11:45 am</b>	<b>Special Session – Boolean and pseudo-boolean functions 1</b>
10:30 am - 10:50 am	<i>Approximating Minimum Representations of Key Horn Functions</i> Kristof Bérczi, Endre Boros, Ondřej Čepek, Petr Kučera and Kazuhisa Makino
10:55 am - 11:15 am	<i>On the Size of CNF Formulas with High Propagation Strength</i> Petr Kučera and Petr Savicky
11:20 am - 11:40 am	<i>Compiling SL Representations of Boolean Functions into OBDDs</i> Miloš Chromý and Ondřej Čepek
<b>11:45 am - 1:30 pm</b>	<b>Lunch</b>
<b>1:30 pm - 2:45 pm</b>	<b>Main session 1 – knowledge and logic</b>
1:30 pm - 1:50 pm	<i>On Upper and Lower Bounds for Finite Domain Constraints to Realize Skeptical Inference over Conditional Knowledge Bases</i> Christian Komo and Christoph Beierle
1:55 pm - 2:15 pm	<i>Fast Verifying Proofs of Propositional Unsatisfiability via Window Shifting</i> Jingchao Chen
2:20 pm - 2:40 pm	<i>Partially Preordered Inconsistent Lightweight Ontologies in Possibility Theory</i> Sihem Belabbes and Salem Benferhat
<b>2:45 pm - 3:15 pm</b>	<b>Coffee break</b>
<b>3:15 pm - 5:20 pm</b>	<b>Special Session – AI/robotics and agriculture</b>
3:15 pm - 3:35 pm	<i>Detecting and Monitoring the Progress of Powdery Mildew Disease in Squash Using Hyperspectral Imaging and Artificial Neural Networks</i> Jaafar Abdulridha, Yiannis Ampatzidis, Pamela Roberts and Sri Charan Kakarla
3:40 pm - 4:00 pm	<i>Development of A Multi-Angle Imaging System for Automatic Strawberry Flower Counting</i> Hao Gan, Won Suk Lee, Natalia Peres and Clyde Fraise
4:05 pm - 4:25 pm	<i>Horse Foraging Behavior Detection Using Recurrent Neural Networks</i> Leon Nunes, Yiannis Ampatzidis, Lucas Costa and Marcelo Wallau
4:30 pm - 4:50 pm	<i>Smart Sprayer for Precision Weed Control Using Artificial Intelligence: Comparison of Deep Learning Frameworks</i> Victor Partel, Jinho Kim, Lucas Costa, Panos Pardalos and Yiannis Ampatzidis
4:55 pm - 5:15 pm	<i>Using Genetic Algorithms and Gene Expression Programming to Estimate Evapotranspiration with Limited Meteorological Data</i> Mohammad Valipour, Sandra M. Guzmán, Mohammad Ali Gholami Sefidkouhi and Mahmoud Raeini–Sarjaz
<b>6:30 pm - evening</b>	<b>Water taxi excursion</b>
6:30 pm	meet at hotel lobby
6:40 pm	walk to taxi
7:00 pm	taxi departs

## Tuesday, January 7

9:00 am - 10:00 am	<p><b>Keynote talk by Lisa Hellerstein</b> <i>Sequential Ordering of Binary Tests in Stochastic Environments</i></p>
10:00 am - 10:30 am	<p><b>Coffee Break</b></p>
10:30 am - 12:10 pm	<p><b>Special Session – Boolean and pseudo-boolean functions 2</b></p>
10:30 am - 10:50 am	<p><i>Another Way to Browse the Search Space For Some Transformations from CSP to SAT</i> Richard Ostrowski, Lionel Paris and Adrien Varet</p>
10:55 am - 11:15 am	<p><i>Bounds for the Probability of the Union of Events</i> Joonhee Lee and Endre Boros</p>
11:20 am - 11:40 am	<p><i>On the Conditional Expectation Given Boolean Functions of Events in the <math>n</math>-Space</i> Jinwook Lee and Andras Prekopa</p>
11:45 pm - 1:45 pm	<p><b>Lunch</b></p>
1:45 pm - 3:00 pm	<p><b>Main session 2 – combinatorial problems</b></p>
1:45 pm - 2:05 pm	<p><i>Testing Unsatisfiability of Constraint Satisfaction Problems via Tensor Products</i> Daya Gaur and Muhammad Khan</p>
2:10 pm - 2:30 pm	<p><i>VC-Dimensions of Nondeterministic Finite Automata for Words of Equal Length</i> Bjørn Kjos-Hanssen, Clyde James Felix, Sun Young Kim, Ethan Lamb and Davin Takahashi</p>
2:35 pm - 3:55 pm	<p><i>Finding Read-Once Refutations in 2CNF Formulas and Variants - a Parameterized Perspective</i> K. Subramani and Piotr Wojciechowski</p>
3:00 pm - 3:30 pm	<p><b>Coffee break</b></p>
3:30 pm - 4:45 pm	<p><b>Main session 3 – learning and games</b></p>
3:30 pm - 3:50 pm	<p><i>Altruism in Coalition Formation Games</i> Anna Maria Kerkmann and Jörg Rothe</p>
3:55 pm - 4:15 pm	<p><i>The Complexity of Controlling Condorcet, Fallback, and <math>k</math>-Veto Elections by Replacing Candidates or Voters</i> Marc Neveling, Jörg Rothe and Roman Zorn</p>
4:20 pm - 4:40 pm	<p><i>Lower Bounds for Adversarially Robust PAC Learning</i> Dimitrios I. Diochnos, Saeed Mahloujifar and Mohammad Mahmoody</p>
6:30 pm - evening	<p><b>Conference banquet with a keynote talk by William Hahn</b> <i>Compressed Inference: Machine Learning on Random Projections</i></p>
6:30 pm	<p>bar opens</p>
7:15 pm	<p>seating is open</p>

## Wednesday, January 8

<b>9:00 am - 10:00 am</b>	<b>Keynote talk by Aaron Roth</b> <i>The Ethical Algorithm</i>
<b>10:00 am - 10:30 am</b>	<b>Coffee break</b>
<b>10:30 am - 11:45 am</b>	<b>Main session 4 – network classifiers</b>
10:30 am - 10:50 am	<i>Empirical Bounds on Linear Regions of Deep Rectifier Networks</i> Thiago Serra and Srikumar Ramalingam
10:55 am - 11:15 am	<i>Topological Measurement of Deep Neural Networks Using Persistent Homology</i> Satoru Watanabe and Hayato Yamana
11:20 am - 11:40 am	<i>Interpretability of Bayesian Network Classifiers: OBDD Approximation and Polynomial Threshold Functions</i> Karine Chubarian and György Turán
<b>11:45 am - 1:30 pm</b>	<b>Lunch</b>
<b>1:30 pm - 2:45 pm</b>	<b>Main session 5 – other models</b>
1:30 pm - 1:50 pm	<i>Making Recommendations when Users Experience Fatigue</i> Theja Tulabandhula and Yunjuan Wang
1:55 pm - 2:15 pm	<i>Hybrid Quantum-Classical Algorithms for Solving the Weighted CSP</i> Hong Xu, Kexuan Sun, Sven Koenig, Itay Hen and T. K. Satish Kumar
2:20 pm - 2:40 pm	<i>Privacy for the Distributed Stochastic Algorithm with Breakouts</i> Julien Vion, Rene Mandiau, Sylvain Piechowiak and Marius Silaghi
<b>2:45 pm</b>	<b>Adjourn</b>