Twenty-Eighth AAAI Conference on Innovative Applications of Artificial Intelligence (IAAI-16)

Schedule

Saturday, February 13

AAAI-16 Opening Reception and ASU Lab Tours
6:00 – 7:30 (Reception, Hyatt Phoenix)
6:30 – 9:30 (Lab Tours, Arizona State University)

Sunday, February 14

8:30 – 8:55
AAAI Welcome and Opening Remarks, AAAI Organizational Awards/Honors, Senior Member Blue Sky Awards

9:00 – 9:50
AAAI Presidential Address: Thomas G. Dietterich

10:00 – 11:00
Machine Learning/Data Mining I: Tourism and Climate

Wikipedia in the Tourism Industry: Forecasting Demand and Modeling Usage Behavior
Pejman Khadivi, Naren Ramakrishnan

A Hidden Markov Model Approach to Infer Timescales for High-Resolution Climate Archives
Mai Winstrup

11:30 – 12:30
Application I: Software Diagnosis and Testing

Data-Augmented Software Diagnosis
Amir Elmishali, Roni Stern, Meir Kalech

Automated Regression Testing Using Constraint Programming
Arnaud Gotlieb, Mats Carlsson, Marius Liaeen, Dusica Marijan, Alexandre Petillon

2:00 – 3:30
Computational Sustainability

Optimizing Energy Costs in a Zinc and Lead Mine
Alan Kinsella, Alan F. Smeaton, Barry Hurley, Barry O’Sullivan, Helmut Simonis

Deployed: Deploying PAWS: Field Optimization of the Protection Assistant for Wildlife Security
Fei Fang, Thanh Nguyen, Rob Pickles, Wai Y. Lam, Gopalasamy R. Clements, Bo An, Amandeep Singh, Milind Tambe, Andrew Lemieux
4:00 – 5:00
IAAI-16 Invited Talk: Naveen Rao (Nervana, Inc.)
*Rethinking Computation: Substrates for Machine Intelligence*

5:10 – 6:10
IAAI-16 Invited Talk: Andreas Krause (ETH Zurich)
*From Proteins to Robots: Learning to Optimize with Confidence*

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**Monday, February 15**

8:50 – 9:50
AAAI-16 Invited Talk: Susan Murphy (University of Michigan)
*Learning Treatment Policies in Mobile Health*

10:00 – 11:00
**Machine Learning/Data Mining II: Digital Libraries**

- Document Type Classification in Online Digital Libraries
  *Cornelia Caragea, Jian Wu, Sujatha Das Gollapalli, C. Lee Giles*

- MetaSeer.STEM: Towards Automating Meta-Analyses
  *Venkata Kishore Neppalli, Cornelia Caragea, Robin Mayes, Kim Nimon, Fred Oswald*

11:30 – 12:30
**Application II: Autonomous Vehicle and Challenge Paper**

- An Autonomous Override System to Prevent Airborne Loss of Control
  *Sweewarman Balachandran, Ella Atkins*

  *Challenge Problem Paper: Infusing Human Factors into Algorithmic Crowdsourcing*
  *Han Yu, Chunyan Miao, Zhiqi Shen, Jun Lin, Cyril Leung, Qiang Yang*

2:00 – 3:30
**Machine Learning/Data Mining III: Healthcare**

- Automated Volumetric Intravascular Plaque Classification Using Optical Coherence Tomography (OCT)
  *Ronny Shalev, Daisuke Nakamura, Setsu Nishino, Andrew Rollins, Hiram Bezerra, David Wilson, Soumya Ray*

  *Deployed: Deploying nEmesis: Preventing Foodborne Illness by Data Mining Social Media*
  *Adam Sadilek, Henry Kautz, Lauren DiPrete, Brian Labus, Eric Portman, Jack Teitel, Vincent Silenzio*

4:00 – 5:00
AAAI-16 Invited Talk: Nick Bostrom (Oxford University)
*What We Should Think about Regarding the Future of Machine Intelligence*

5:10 – 6:10
IAAI-16 Robert S. Engelmore Memorial Award Lecture: Reid G. Smith (i2k Connect)
*A Quarter Century of AI Applications: What We Knew Then versus What We Know Now*
Tuesday, February 16

8:50 – 9:50
IAAI-16 / AAAI-16 Joint Invited Talk: Demis Hassabis (Google DeepMind)

10:00 – 11:00
Cyber Security and Ontology I: Manufacturing

Data Driven Game Theoretic Cyber Threat Mitigation
John James Robertson, Vivin Paliath, Jana Shakarian, Amanda Thart, Paulo Shakarian

Automated Capture and Execution of Manufacturability Rules using Inductive Logic Programming
Abha Moitra, Ravi Palla, Arvind Rangarajan

11:30 – 12:30
Ontology II: Automotive

Deployed: Ontology Re-Engineering: A Case Study from the Automotive Industry
Nestor Rychtyckyj, Baskaran Sankaranarayanan, P Sreenivasa Kumar, Deepak Khemani, Venkatesh Raman