IAAI-17 Schedule

Monday, February 6

10:00 – 11:00
Robert S. Engelmore Memorial Award Lecture
David Aha (Naval Research Laboratory, USA)

11:30 – 12:30
Transportation: AI Applied to Safer and More Efficient Travel

Risk-Aware Planning: Methods and Case Study on Safe Driving Routes
John Krumm, Eric Horvitz

Predicting Fuel Consumption and Flight Delays for Low-Cost Airlines
Yuji Horiguchi, Yukino Baba, Hisashi Kashima, Masahito Suzuki, Hiroki Kayahara, Jun Maeno

Determining Relative Airport Threats from News and Social Media
Rupinder P. Khandpur, Taoran Ji, Yue Ning, Liang Zhao, Chang-Tien Lu, Erik R. Smith, Christopher Adams, Naren Ramakrishnan

2:00 – 3:30
Deployed AI Systems

Large-Scale Occupational Skills Normalization for Online Recruitment
Faizan Javed, Phuong Hoang, Thomas Mahoney, Matt McNair

Phase-Mapper: An AI Platform to Accelerate High Throughput Materials Discovery
Yexiang Xue, Junwen Bai, Ronan Le Bras, Brendan Rappazzo, Richard Bernstein, Johan Bjorck, Liane Longpre, Santosh K. Suram, Robert B. van Dover, John Gregoire, Carla P. Gomes

Tuesday, February 7

10:00 – 11:00
IAAI-17 Invited Talk: Enabling Autonomous Space Mission Operations with Artificial Intelligence
Jeremy Frank (Intelligent Systems Division, NASA Ames Research Center)

11:30 – 12:30
Health & Wellness: Encouraging and Supporting Healthier Behavior

Constraint-Based Verification of a Mobile App Game Designed for Nudging People to Attend Cancer Screening
Arnaud Gotlieb, Marine Louarn, Mari Nygard, Tomas Ruiz-Lopez, Sagar Sen, Roberta Gori

Calories Prediction from Food Images
Manal Chokr, Shady Elbassuoni

On Designing a Social Coach to Promote Regular Aerobic Exercise
Shiwali Mohan, Anusha Venkatakrishnan, Michael Silva, Peter Pirolli

2:00 – 3:30
Smart Environments: Using AI Systems to Improve Day-to-Day Life

Crowdsensing Air Quality with Camera-Enabled Mobile Devices
Zhengxiang Pan, Han Yu, Chunyan Miao, Cyril Leung
Real-Time Indoor Localization in Smart Homes Using Semi-Supervised Learning
Negar Ghourchian, Michel Allegue-Martinez, Doina Precup

Designing Better Playlists with Monte Carlo Tree Search
Elad Liebman, Piyush Khandelwal, Maytal Saar-Tsechansky, Peter Stone

ParkUs: A Novel Vehicle Parking Detection System
Pietro Carnelli, Joy Yeh, Mahesh Sooriyabandara, Aftab Khan

4:00 – 5:00
Explanations: Trouble Shooting and Question Answering for Both Common and Technical Tasks

UbuntuWorld 1.0 LTS—A Platform for Automated Problem Solving and Troubleshooting in the Ubuntu OS
Tathagata Chakraborti, Kartik Talamadupula, Kshitij P. Fadnis, Murray Campbell, Subbarao Kambhampati

A Logic Based Approach to Answering Questions about Alternatives in DIY Domains
Yi Wang, Joohyung Lee, Doo Soon Kim

Explainable Agency for Intelligent Autonomous Systems
Pat Langley, Ben Meadows, Mohan Sridharanz, Dongkyu Choi

Wednesday, February 8

8:50 – 9:50 AM
AAAI-17/IAAI-17 Joint Invited Talk: Self-Driving Cars and the Future of Mobility
Dmitri Dolgov (Waymo)

10:00 – 11:00
Decision Support: AI for Better Decision Making

Cracks Under Pressure? Burst Prediction in Water Networks Using Dynamic Metrics
Gollakota Kaushik, Abinaya Manimaran, Arunchandar Vasan, Venkatesh Sarangan, Anand Sivasubramaniam

Optimal Sequential Drilling for Hydrocarbon Field Development Planning
Ruben Rodriguez Torrado, Jesus Rios, Gerald Tesauro

Predictive Off-Policy Policy Evaluation for Nonstationary Decision Problems, with Applications to Digital Marketing
Philip S. Thomas, Georgios Theocharous, Mohammad Ghavamzadeh, Ishan Durugkar, Emma Brunskill

11:30 – 12:30
Sense-Making: Using Automated Systems to Pull Out Patterns and Structure from Data

Using Deep and Convolutional Neural Networks for Accurate Emotion Classification on DEAP Dataset
Samarth Tripathi, Shrinivas Acharya, Ranti Dev Sharma, Sudhanshi Mittal, Samit Bhattacharya

A Machine Learning Approach for Semantic Structuring of Scientific Charts in Scholarly Documents
Rabah A. Al-Zaidy, C. Lee Giles

Automated Data Cleansing through Meta-Learning
Ian Gemp, Georgios Theocharous, Mohammad Ghavamzadeh