

IAAI-15 Accepted Papers

Deployed Case Studies

Activity Planning for a Lunar Orbital Mission

John L. Bresina

Robust System for Identifying Procurement Fraud

Amit Dhurandhar, Rajesh Ravi, Bruce Graves, Gopikrishnan Maniachari, Markus Ettl

Position Assignment on an Enterprise Level Using Combinatorial Optimization

Leonard Kinnaird-Heether, Chris Dorman

Graph Analysis for Detecting Fraud, Waste, and Abuse in Healthcare Data

Juan Liu, Eric Bier, Aaron Wilson, Tomo Honda, Sricharan Kumar, Leilani Gilpin, John Guerra-Gomez, Daniel Davies

Planned Protest Modeling in News and Social Media

Sathappan Muthiah, Bert Huang, Jaime Arredondo, David Mares, Lise Getoor, Graham Katz, Naren Ramakrishnan

Process Diagnosis System (PDS) – A 30 Year History

Edward D Thompson, Ethan Frolich, James C Bellows, Benjamin E Bassford, Edward J Skiko, Mark S Fox

Emerging Applications

Named Entity Recognition in Travel-Related Search Queries

Brooke Cowan, Sven Zethelius, Brittany Luk, Teodora Baras, Prachi Ukarde, Daodao Zhang

Automated Problem List Generation from Electronic Medical Records in IBM

Watson

Murthy Devarakonda, Ching-Huei Tsou

Using Qualitative Spatial Logic for Validating Crowd-Sourced Geospatial Data

Heshan Du, Hai Nguyen, Natasha Alechina, Brian Logan, Michael Jackson, John Goodwin

Day-Ahead Hail Prediction Integrating Machine Learning with Storm-Scale Numerical Weather Models

David John Gagne II, Amy McGovern, Jerald Brotzge, Michael Coniglio, James Correia Jr., Ming Xue

Capturing Human Route Preferences From Track Information: New Results

Johnathan Gohde, Mark Boddy, Hazel Shackleton, Steve Johnston

Design and Experiment of a Collaborative Planning Service for NetCentric
International Brigade Command
Christophe Guettier, Willy Lamal, Israël Mayk, Jacques Yelloz

Aggregating User Input in Ecology Citizen Science Projects
Greg Hines, Alexandra Swanson, Margaret Kosmala, Chris Lintott

Leveraging Ontologies to Improve Model Generalization Automatically with Online
Data Sources
Sasin Janpuangtong, Dylan A. Shell

HACKAR: Helpful Advice for Code Knowledge and Attack Resilience
Ugur Kuter, Mark Burstein, J. Benton, Daniel Bryce, Jordan Thayer, Steve McCoy

A Robust and Extensible Tool for Data Integration Using Data Type Models
Andres Quiroz, Eric Huang, Luca Ceriani

Maestoso: An Intelligent Educational Sketching Tool for Learning Music Theory
Paul Tael, Laura Barreto, Tracy Hammond

Preventing HIV Spread in Homeless Populations Using PSINET
Amulya Yadav, Leandro Soriano Marcolino, Eric Rice, Robin Petering, Hailey
Winetrobe, Harmony Rhoades, Milind Tambe, Heather Carmichael

SKILL: A System for Skill Identification and Normalization
Meng Zhao, Faizan Javed, Ferosh Jacob, Matt McNair

Challenge Papers

Elementary School Science and Math Tests as a Driver for AI: Take the Aristo
Challenge!
Peter Clark

Time-Varying Clusters in Large-Scale Flow Cytometry
Jeremy Hyrkas, Daniel Halperin, Bill Howe

The Winograd Schema Challenge: Evaluating progress in commonsense reasoning
Leora Morgenstern, Charles Ortiz