

IAAI-12 Accepted Papers

Deployed Papers

Advisor Agent Support for Issue Tracking in Medical Device Development
Touby Drew, Maria Gini

A Real-Time Decision Support System for High Cost Oil-Well Drilling
Operations
Odd Erik Gundersen, Frode Sørmo, Agnar Aamodt, Pål Skalle

Statistical Anomaly Detection for Train Fleets
Anders Holst, Markus Bohlin, Jan Ekman, Ola Sellin, Björn Lindström, Stefan
Larsen

Transcription System Using Automatic Speech Recognition for the Japanese
Parliament (Diet)
Tatsuya Kawahara

eBird: A Human/Computer Learning Network for Biodiversity Conservation and
Research
Steve Kelling, Jeff Gerbracht, Daniel Fink, Carl Lagoze, Weng-Keen Wong, Jun
Yu, Theodoros Damoulas, Carla Gomes

Using AI Local Search to Improve an OR Optimizer
F. Morgado, R. L. Saldanha, J. Roussado, L. Albino, E. Morgado, J. P. Martins

Applying Automated Language Translation at a Global Enterprise Level
Nestor Rychtyckj, Craig Plesco

Mechanix: A Sketch-Based Tutoring System for Statics Courses
Stephanie Valentine, Francisco Vides, George Lucchese, David Turner, Hong-
hoe Kim, Wenzhe Li, Julie Linse, Tracy Hammond

Emerging Applications

Applying Constraint Programming to Incorporate Engineering Methodologies
into the Design Process of Complex Systems
Odellia Boni, Fabiana Fournier, Nir Mashkif, Yehuda Naveh, Aviad Sela, Uri
Shani, Zvi Lando, Alon Modai

Using Quantitative Information to Improve Analogical Matching between
Sketches
Maria D. Chang, Kenneth D. Forbus

A Methodology for Deploying the Max-Sum Algorithm and a Case Study on
Unmanned Aerial Vehicles

F. M. Delle Fave, A. Farinelli, A. Rogers, N. R. Jennings

Toward Habitable Assistance from Spoken Dialogue Systems
Susan L. Epstein, Rebecca J. Passonneau, Tiziana Ligatorio, Joshua Gordon

Integrating Learner Help Requests Using a POMDP in an Adaptive Training System
Jeremiah T. Folsom-Kovarik, Gita Sukthankar, Sae Schatz

Using POMDPs to Control an Accuracy-Processing Time Trade-Off in Video Surveillance
Komal Kapoor, Christopher Amato, Nisheeth Srivastava, Paul Schrater

Intelligent Computation of Reachability Sets for Space Missions
Erik Komendera, Daniel Scheeres, Elizabeth Bradley

Using a Critic to Promote Less Popular Candidates in a People-to-People Recommender System
A. Krzywicki, W. Wobcke, X. Cai, M. Bain, A. Mahidadia, P. Compton, Y. S. Kim

Local Search for Designing Noise-Minimal Rotorcraft Approach Trajectories
Robert A. Morris, K. Brent Venable, Marco Pegoraro, James Lindsey

Learning Driver's Behavior to Improve the Acceptance of Adaptive Cruise Control
Avi Rosenfeld, Zevi Bareket, Claudia V. Goldman, Sarit Kraus, David J. LeBlanc, Omer Tsimoni

Multi-Agent Simulation of En-Route Human Air-Traffic Controller
David Sislák, Premysl Volf, Michal Pechoucek, Christopher T. Cannon, Duc N. Nguyen, William C. Regli

QuickPup: A Heuristic Backtracking Algorithm for the Partner Units Configuration Problem
Erich C. Teppan, Gerhard Friedrich, Andreas A. Falkner

Cost-Sensitive Risk Stratification in the Diagnosis of Heart Disease
Selen Uguroglu, Jaime Carbonell, Mark Doyle, Robert Biederman

Statistical Relational Learning to Predict Primary Myocardial Infarction from Electronic Health Records
Jeremy C. Weiss, David Page, Sriraam Natarajan, Peggy L. Peissig, Catherine McCarty

TRUSTS: Scheduling Randomized Patrols for Fare Inspection in Transit Systems
Zhengyu Yin, Albert Xin Jiang, Matthew P. Johnson, Milind Tambe, Christopher

Kiekintveld, Kevin Leyton-Brown, Tuomas Sandholm, John P. Sullivan