acm SIGAI

AI Matters

Annotated Table of Contents

Welcome to AI Matters Issue 4
Kiri L. Wagstaff, Editor

Full article: http://doi.acm.org/10.1145/2757001.2757002

A welcome from the Editor of AI Matters and a summary of issue 4 highlights.

The Protégé Project: A Look Back and a Look Forward
Mark A. Musen and the Protégé Team

Full article: http://doi.acm.org/10.1145/2757001.2757003

The Editors of AI Matters invited this reflection on the Protégé project when Stanford University's Protégé team received the "Ten Years" Award at the International Semantic Web Conference for the most influential paper that had been presented at the meeting ten years previously.

Who is Watching You Eat?: A Noir Preferences Thriller
Judy Goldsmith, Nicholas Mattei, and Robert H. Sloan

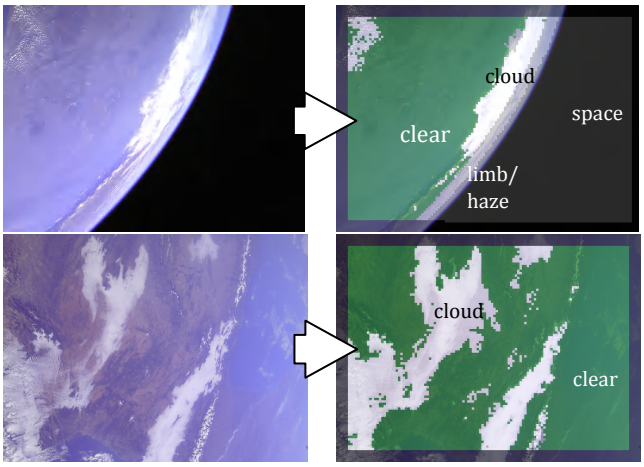
Full article: http://doi.acm.org/10.1145/2757001.2757004

Understanding food and restaurant preferences is a hot topic for start-ups and the basis for many explanatory examples in preference handling and machine learning. We weave together a broad overview of preferences with a novel short story that (over)states the grave danger to both individuals and society of sharing our food preferences.

Study, Design, and Evaluation of Exploration Strategies for Autonomous Mobile Robots
Alberto Quattrini Li

Full article: http://doi.acm.org/10.1145/2757001.2757005

I focus on techniques that drive autonomous mobile robots around environments to be explored. Specifically, I theoretically analyze the optimal behavior and the worst and average cases for single-robot exploration. Further, I practically design a semantic-based multirobot exploration system and experimentally assess some of the factors affecting the exploration performance.



Onboard Machine Learning Classification of Images by a Cubesat in Earth Orbit.
David R. Thompson, Alphan Altinok, Benjamin J. Bornstein, Steve A. Chien, Joshua Doubleday, John Bellardo, and Kiri L. Wagstaff

Full image and details:
http://doi.acm.org/10.1145/2757001.2757010

Ensemble Stream Model for Data-Cleaning in Sensor Networks
Vasanth Iyer, S.S. Iyengar, and Niki Pissinou

Full article: http://doi.acm.org/10.1145/2757001.2757006

More recently the need to process larger amounts of sensor data has motivated the field of stream data mining. Commonly the computational goal is to create a learning process which is linear in the number of examples. We examine an explicit non-parametric overlap feature extraction computational framework for wireless data driven applications. The data fitness for a desired QoD is achieved by tuning the number of trees in the ensemble.

N Formation of the ACM SIGAI Bay Area Chapter

Steve Omohundro, George Gregory, and Tuna Oezer

Full article: http://doi.acm.org/10.1145/2757001.2757007

A description of the first ACM SIGAI chapter's formation and activities.

N ACM/SIGAI Autonomous Agents Research Award for Dr. Catherine Pelachaud

Full article: http://doi.acm.org/10.1145/2757001.2757008

The selection committee for the ACM/SIGAI Autonomous Agents Research Award is pleased to announce that Dr. Catherine Pelachaud, Director of Research at CNRS at Telecom ParisTech, is the recipient of the 2015 award.

E Student Travel Award Recipients for the 2015 AAAI/SIGAI Doctoral Consortium

Maria Jung Barrett, Boon Ping Lim, Claudia Schulz, and Guni Sharon

Full article: http://doi.acm.org/10.1145/2757001.2757009

SIGAI provides travel funding to support students from institutions outside the U.S. to attend the AAAI/SIGAI Doctoral Consortium. The Doctoral Consortium (DC) provides an opportunity for a group of Ph.D. students to discuss and explore their research interests and career objectives with a panel of established researchers in artificial intelligence.

Upcoming Conferences

Registration discount for SIGAI members.

K-CAP 2015: International Conference. on Knowledge Capture. Palisades, NY, Oct. 7-10, 2015. Submission deadline: Jun. 1 (paper); Aug. 1 (poster).

ASE 2015: IEEE/ACM International Conference on Automated Software Engineering. Lincoln, Nebraska, Nov. 2015.

WI-IAT 2015: IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology. Singapore, Dec. 6-9, 2015.

IUI 2016: International Conference on Intelligent User Interfaces. Sonoma, CA. Mar. 7-10, 2016. Submission deadline: Oct. 9 (abstract); Oct. 14 (paper), 2015.

HRI 2016: ACM/IEEE International Conference on Human-Robot Interaction. Christchurch, New Zealand. Mar. 7-10, 2016.

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Edition DOI: 10.1145/2757001

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