



AI Matters

Annotated Table of Contents

O Welcome to AI Matters Issue 3

Kiri Wagstaff, Editor

Full article: <http://doi.acm.org/10.1145/2735392.2735393>

A welcome from the Editor of AI Matters and a summary of issue 3 highlights.

N Computer Science Curricula 2013 (CS2013): AI and the Intelligent Systems Knowledge Area

Mehran Sahami

Full article: <http://doi.acm.org/10.1145/2735392.2735394>

The ACM/IEEE-CS Computer Science Curricula 2013 (CS2013) report provides guidelines on undergraduate programs in computer science. The report includes a knowledge area on Intelligent Systems, which presents the topics and learning outcomes related to AI that are recommended for undergraduate CS programs to include.

E Report on the 2015 Career Network Conference (CNC)

Sanmay Das

Full article: <http://doi.acm.org/10.1145/2735392.2735395>

SIGAI organized the first Career Network Conference (CNC) for students and postdocs to publicize their work and interact with leaders from academia, industry, government, and other roles. The event was held in conjunction with AAAI 2015 and included a panel discussion and a Best Student Abstract award.

D Reinforcement Learning and Planning for Preference Balancing Tasks

Aleksandra Faust

Full article: <http://doi.acm.org/10.1145/2735392.2735396>

Many robotic motion tasks, such as UAV control, have non-linear and high-dimensional dynamics. Difficult for both human demonstration and explicit solutions, these tasks can be described with opposing prefer-



Top detections,
Pascal VOC 2010

Top 10 detections,
Florence dataset

V Detecting People in Cubist Art

Shiry Ginosaur, Daniel Haas, Timothy Brown, and Jitendra Malik.

Detectors trained on natural images can detect parts that characterize person figures in Cubist paintings. Full image and details:

<http://doi.acm.org/10.1145/2735392.2735398>

ences. This thesis develops PEARL, a real-time solution for such tasks on acceleration-controlled systems with unknown dynamics, and finds PEARL's safety conditions.

D Long-term Interactions with Empathic Social Robots

Iolanda Leite

Full article: <http://doi.acm.org/10.1145/2735392.2735397>

We investigated the effects of an adaptive empathic model in repeated interactions between users and social robots. The proposed model includes an online learning decision-making mechanism that allows the robot to select the most appropriate supportive behaviors based on the impact that similar behaviors had in keeping the user in a positive affective state.

Upcoming Conferences

Registration discount for SIGAI members.

HRI 2015: ACM/IEEE International Conference on Human-Robot Interaction. Portland, OR. Mar. 2-5, 2015.

IUI 2015: International Conference on Intelligent User Interfaces. Atlanta, GA. Mar. 29 - Apr. 1, 2015.

K-CAP 2015: International Conference. on Knowledge Capture. Palisades, NY, Oct. 2015.

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

Submission deadline: May 8 (abstract); May 15 (paper), 2015.

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

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