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A welcome from the Editor of AI Matters and a summary of issue 2 highlights.

Ten Simple Rules for Starting a Research Group  
Yolanda Gil, SIGAI Chair  
Full article: http://doi.acm.org/10.1145/2685328.2685330  
The Chair of SIGAI provides key insights and advice for starting (and growing) a research group. Read on and be inspired!

Generalizing Causal Knowledge: Theory and Algorithms  
Elias Bareinboim and Judea Pearl  
Full article: http://doi.acm.org/10.1145/2685328.2685331  
Science is about generalization, and generalization requires an inductive leap from an observed reality to one that has not been seen before. We construct in this work a theoretical framework for understanding, representing, and algorithmizing causal generalizations from heterogeneous mixtures of experimental and observational studies.

On the Projection Problem in Active Knowledge Bases with Incomplete Information  
Vaishak Belle  
Full article: http://doi.acm.org/10.1145/2685328.2685332  
In realistic domains, autonomous agents have many sources of uncertainty: lack of information, noise in their actuators, and the presence of other agents. Consequently, the task of projection, that lies at the heart of planning, is significantly more complex. In this thesis, we obtain new general results on approaching this concern.

Human-Robot Collaboration: Assembling Furniture with Robot Assistance.
Brian Scassellati and Bradley Hayes.  
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Student Travel Award Recipients for the 2014 AAAI/SIGAI Doctoral Consortium  
Tim Brys, John Doucette, Taraneh Khazaei, and Ran Taig  
Full article: http://doi.acm.org/10.1145/2685328.2685333  
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.

Cryptocurrencies, Smart Contracts, and Artificial Intelligence  
Steve Omohundro  
Full article: http://doi.acm.org/10.1145/2685328.2685334
Recent developments in "cryptocurrencies" and "smart contracts" are creating new opportunities for applying AI techniques. These economic technologies would benefit from greater real world knowledge and reasoning as they become integrated with everyday commerce. Cryptocurrencies and smart contracts may also provide an infrastructure for ensuring that AI systems follow specified legal and safety regulations as they become more integrated into human society.

Upcoming Conferences

Registration discount for SIGAI members.


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