

AI Models and Methods in Safety-Critical Robotic Applications

Paper List - Poster Session

Topic: Control Policy Learning for Active Recognition

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Sergio Caccamo, Yasemin Bekiroglu, Carl Henrik Ek and Danica Kragic

Active Exploration Using Gaussian Random Fields and Gaussian Process Implicit Surfaces

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Playing Atari with Deep Reinforcement Learning

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Xiangyu Kong, Bo Xin, Yizhou Wang, Gang Hua

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Yuke Zhu, Daniel Gordon, Eric Kolve, Dieter Fox, Li Fei-Fei, Abhinav Gupta, Roozbeh Mottaghi, Ali Farhadi

Visual Semantic Planning using Deep Successor Representations

CoRR, 2017.

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Stephen James, Edward Johns

3D Simulation for Robot Arm Control with Deep Q-Learning

CoRR, 2016.

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Nikolai Smolyanskiy, Alexey Kamenev, Jeffrey Smith, Stan Birchfield

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Topic: Knowledge Acquisition, Learning and Grounding for Embodied Robotic Applications

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Annotator Rationales for Visual Recognition

ICCV, 2011

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Damian Borth, Adrian Ulges and Thomas M. Breuel

Automatic Concept-to-Query Mapping for Web-based Concept Detector Training

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Verb-Object Concepts Image Classification via Hierarchical Nonnegative Graph Embedding

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Sampling and Ontologically Pooling Web Images for Visual Concept Learning

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Autoencoding Evolutionary Search with Learning across Heterogeneous Problems

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Extreme Learning Machine for Multilayer Perceptron

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Context Encoders: Feature Learning by Inpainting

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Jerome Revaud Philippe Weinzaepfel Zaid Harchaoui Cordelia Schmid

DeepMatching: Hierarchical Deformable Dense Matching

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Topic: Question Answering

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Ronghang Hu, Jacob Andreas Marcus, Rohrbach, Trevor Darrell, Kate Saenko

Learning to Reason: End-to-End Module Networks for Visual Question Answering

CoRR, 2017.

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Speech-Based Visual Question Answering

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Yunseok Jang, Yale Song, Youngjae Yu, Youngjin Kim, Gunhee Kim

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Topic: Terrain Traversability Assessment for Safe Autonomous Navigation

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Journal of Field Robotics, 2016

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