Contents

$\underline{\mathbf{SDMM19}}$

A Novel Semantic SLAM Framework for Humanlike High-Level Interaction and Planning in Global Environment	10
The Semantics of Context: The Role of Interpretation and Belief in Visual Localization for Robots	22
Dense-Loop: A Loop Closure Detection Method for Visual SLAM using DenseNet Features	27
Learning Safety-Aware Policy with Imitation Learning for Context-Adaptive Navigation	38
Guidance of Mobile Robot Navigation in Urban Environment Using Human-Centered Cloud Map	48
Semantic Information-based Reliable Autonomous Navigation in Wide Space	53
Towards Explanations of Plan Execution for Human-Robot Teaming	58
Mental Simulation for Autonomous Learning and Planning Based on Triplet Ontological Semantic Model	65
Combining Semantic Modeling and Deep Reinforcemt Learning for Autonomous Agents in Minecraft	74

Contents

AnSWeR19

How Does a Robot Speak? About the Man-Machine Verbal Interaction	78
Hybrid Question Answering System based on Natural Language Processing and SPARQL Query	94
Auto-Perceptive Reinforcement Learning (APRiL)	103