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organizing Feature Maps Searching for Locomotion Patterns that Suffer from Imprecise Details World Modeling for Autonomous Systems Machine Learning and Data Mining A Probabilistic MajorClust Variant for the Clustering of Near-Homogeneous Graphs Acceleration of DBSCAN-Based Clustering with Reduced Neighborhood Evaluations Adaptive ?-Greedy Exploration in Reinforcement Learning Based on Value Differences Learning the Importance of Latent Topics to Discover Highly Influential News Items Methods for Automated High-Throughput Toxicity Testing Using Zebrafish Embryos Visualizing Dissimilarity Data Using Generative Topographic Mapping Planing and Reasoning An Empirical Comparison of Some Multiobjective Graph Search Algorithms Completeness for Generalized First-Order LTL Instantiating General Games Using Prolog or Dependency Graphs Plan Assessment for Autonomous Manufacturing as Bayesian Inference Positions, Regions, and Clusters: Strata of Granularity in Location Modelling Soft Evidential Update via Markov Chain Monte Carlo Inference Strongly Solving Fox-and-Geese on Multi-core CPU The Importance of Statistical Evidence for Focussed Bayesian Fusion The Shortest Path Problem Revisited: Optimal Routing for Electric Vehicles Robotics A Systematic Testing Approach for Autonomous Mobile Robots Using Domain-Specific Languages Collision Free Path Planning for Intrinsic Safety of Multi-fingered SDH-2 Dynamic Bayesian Networks for Learning Interactions between Assistive Robotic Walker and Human Users From Neurons to Robots: Towards Efficient Biologically Inspired Filtering and SLAM Haptic Object Exploration Using Attention Cubes Task Planning for an Autonomous Service Robot Towards Automatic Manipulation Action Planning for Service Robots Towards Opportunistic Action Selection in Human-Robot Cooperation Trajectory Generation and Control for a High-DOF Articulated Robot with Dynamic Constraints Adaptive Motion Control: Dynamic Kick for a H	
The 33rd Annual German Conference on Arti?cial Intelligence (KI 2010) took place at the Karlsruhe Institute of Technology KIT, September 21–24, 2010, under the motto "Anthropomatic Systems." In this volume you will ?nd the keynote paper and 49 papers of oral and poster presentations. The papers were selected from 73 submissions, resulting in an acceptance rate of 67%. As usual at the KI conferences, two entire days were allocated for targeted workshops—seventhis year—andone tutorial. The workshopand tutorialma- rials are not contained in this volume, but the conference website, www.ki2010.kit. edu,will provide information and references to their contents. Recent trends in AI research have been focusing on anthropomatic systems, which address synergies between humans and intelligent machines. This trend is emphasized through the topics of the overall conference program. They include learning systems, cognition, robotics, perception and action, knowledge rep- sentation and reasoning, and planning and decision making. Many topics deal with uncertainty in various scenarios and incompleteness of knowledge. Summarizing, KI 2010 provides a cross section of recent research in modern AI methods and anthropomatic system applications. We are very grateful that Jos'	

Sommario/riassunto

edel Mill´an, Hans-Hellmut Nagel, Carl Edward Rasmussen, and David Vernon accepted our invitation to give a talk.