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Nota di contenuto	Cognition Vision, Logic, and Language – Toward Analyzable Encompassing Systems A Computational Model of Human Movement Coordination BiosignalsStudio: A Flexible Framework for Biosignal Capturing and Processing Local Adaptive Extraction of References Logic-Based Trajectory Evaluation in Videos Human-Machine Interaction A Testbed for Adaptive Human-Robot Collaboration

	Human Head Pose Estimation Using Multi-appearance Features Online Full Body Human Motion Tracking Based on Dense Volumetric 3D Reconstructions from Multi Camera Setups On-Line Handwriting Recognition with Parallelized Machine Learning Algorithms Planning Cooperative Motions of Cognitive Automobiles Using Tree Search Algorithms Static Preference Models for Options with Dynamic Extent Towards User Assistance for Documents via Interactional Semantic Technology Knowledge Flexible Concept-Based Argumentation in Dynamic Scenes Focused Belief Revision as a Model of Fallible Relevance-Sensitive Perception Multi-context Systems with Activation Rules Pellet-HeaRT Proposal of an Architecture for Ontology Systems with Rules Putting People's Common Sense into Knowledge Bases of Household Robots Recognition and Visualization of Music Sequences Using Self- 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 Carol Inference Strongly Solving Fox-and-Geese on Multi-core CPU The Imp
Sommario/riassunto	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' edel Mill´an, Hans-Hellmut Nagel, Carl Edward Rasmussen, and David Vernon accepted our invitation to give a talk.