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Nota di contenuto	Artificial Intelligence Arrives to the 21st Century -- Knowledge Representation and Reasoning -- Fuzzy Logic and Fuzzy Control -- Uncertainty and Qualitative Reasoning -- Evolutionary Algorithms and Swarm Intelligence -- Neural Networks -- Optimization and Scheduling -- Machine Learning and Feature Selection -- Classification -- Knowledge Discovery -- Computer Vision -- Image Processing and Image Retrieval -- Natural Language Processing -- Information Retrieval and Text Classification -- Speech Processing -- Multiagent Systems -- Robotics -- Bioinformatics and Medical Applications.
Sommario/riassunto	Artificial Intelligence embraces heuristic methods of solving complex problems for which exact algorithmic solutions are not known. Among them are, on the one hand, tasks related to modeling of human

intellectual activity such as thinking, learning, seeing, and speaking, and on the other hand, super-complex optimization problems appearing in science, social life, and industry. Many methods of Artificial Intelligence are borrowed from nature where similar super-complex problems occur. This year is special for the Artificial Intelligence community. This year we th celebrate the 50 anniversary of the very term “Artificial Intelligence”, which was first coined in 1956. This year is also very special for the Artificial Intelligence th community in Mexico: it is the 20 anniversary of the Mexican Society for Artificial Intelligence, SMIA, which organizes the MICAI conference series. The series itself also celebrates its own round figure: the fifth event. We can now see that MICAI has reached its maturity, having grown dramatically in size and quality, see Figs. 1 to 3. The proceedings of the previous MICAI events were also published in Springer’s Lecture Notes in Artificial Intelligence (LNAI) series, in volumes 1793, 2313, 2972, and 3789. th This volume contains the papers presented during the oral session of the 5 Mexican International Conference on Artificial Intelligence, held on November 13–17, 2006, at the Technologic Institute of Apizaco, Mexico. The conference received for evaluation 448 submissions by 1207 authors from 42 different countries, see Tables 1 and 2.

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