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Soggetti	Artificial intelligence Machine theory Data mining Application software Information storage and retrieval systems Computer science Artificial Intelligence Formal Languages and Automata Theory Data Mining and Knowledge Discovery Computer and Information Systems Applications Information Storage and Retrieval Theory of Computation
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Nota di contenuto	Invited Talks -- Machine Learning -- Neural Networks -- Evolutionary Computing -- Constraint Satisfaction -- Satisfiability -- Automated Reasoning -- Knowledge Discovery -- Robotics -- Social Intelligence -- Ontologies and Semantic Web -- Natural Language Systems -- Knowledge Representation -- Expert Systems -- Applications of AI -- Short Papers.
Sommario/riassunto	This volume contains the papers presented at AI 2007: The 20th

Australian Joint Conference on Artificial Intelligence held during December 2–6, 2007 on the Gold Coast, Queensland, Australia. AI 2007 attracted 194 submissions (full papers) from 34 countries. The review process was held in two stages. In the first stage, the submissions were assessed for their relevance and readability by the Senior Program Committee members. Those submissions that passed the first stage were then reviewed by at least three Program Committee members and independent reviewers. After extensive discussions, the Committee decided to accept 60 regular papers (acceptance rate of 31%) and 44 short papers (acceptance rate of 22.7%). Two regular papers and four short papers were subsequently withdrawn and are not included in the proceedings. AI 2007 featured invited talks from four internationally distinguished researchers, namely, Patrick Doherty, Norman Foo, Richard Hartley and Robert Hecht-Nielsen. They shared their insights and work with us and their contributions to AI 2007 were greatly appreciated. AI 2007 also featured workshops on integrating AI and data-mining, semantic biomedicine and ontology. The short papers were presented in an interactive poster session and contributed to a stimulating conference. It was a great pleasure for us to serve as the Program Co-chairs of AI 2007.
