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	Disciplina	006.3
	Soggetti	Artificial intelligence
		Computers
		Pattern recognition
		Software engineering
		Application software
		User interfaces (Computer systems)
		Artificial Intelligence
		Computation by Abstract Devices
		Pattern Recognition
		Software Engineering
		Information Systems Applications (incl. Internet)
		User Interfaces and Human Computer Interaction
	Lingua di pubblicazione	Inglese
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	Livello bibliografico	Monografia
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	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Invited Contributions -- Multi-agent Systems -- Decision-Support -- Genetic Algorithms -- Heuristic Search -- Data-Mining and Knowledge Discovery -- Planning and Scheduling -- Fuzzy Logic -- Computer Vision -- Case-Based Reasoning -- Knowledge Engineering -- Machine Learning -- Model-Based Reasoning -- Speech Recognition -- Systems for Real Life Applications -- Applications -- Special Session on Bioinformatics -- Special Session on Ontology and Text -- Special

Session on Data for Discovery in Engineering -- Special Session on Intelligent Control Systems -- Special Session on Intelligent Systems for Industry -- Special Session on Applications of Data Mining.

Sommario/riassunto

"Intelligent Design and complex problem solving are twined like wife and husband." In the current competitive global industrial environment there are many pr- lems which need intelligent systems technology for optimal solutions. The central theme of the 19th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2006) is to focus on the research methodologies and practical implementations of these methodologies for intelligent solutions of problems in real-world applications. We are pleased to present the papers in these proceedings which cover va- ous aspects of applications of applied intelligent systems. We received more than 330 papers from many countries and each paper was reviewed by at least two reviewers. Only 134 papers were selected for presentation in the normal and special sessions. The normal sessions cover the following topics: planning and scheduling, multi-agent systems, fuzzy logic, data mining and knowledge d- covery, genetic algorithms, decision support, expert systems, neural networks, computer vision, speech recognition, systems for real-life applications, machine learning, model-based reasoning, heuristic search, and knowledge engineering. We also organized several special sessions in the areas of bioinformatics, - tology, knowledge discovery, intelligent control systems, intelligent industrial s- tems, and applications of data mining. The conference program also included four invited lecturers given by Fausto Giunchiglia, Erik Sandewall, Sylviane Gentil and Trevor Martin.