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Nota di contenuto	Neural Networks -- Independent Component Analysis and Blind Source Separation -- Combinatorial and Numerical Optimization -- Neural Computing and Optimization -- Knowledge Discovery and Data Mining -- Artificial Life and Artificial Immune Systems -- Ensemble Methods -- Manifold Learning Theory -- Evolutionary Computing and Genetic Algorithms -- Fuzzy Systems and Soft Computing -- Particle Swarm Optimization and Niche Technology -- Swarm Intelligence and Optimization -- Kernel Methods and Support Vector Machines -- Fine Feature Extraction Methods -- Intelligent Fault Diagnosis -- Fuzzy Control -- Intelligent Human-Computer Interactions for Multi-modal and Autonomous Environment -- Computational Systems Biology -- Intelligent Robot Systems Based on Vision Technology -- Intelligent Computing for Motion Picture Processing -- Particle Swarm Optimization: Theories and Applications -- Recent Advances of Intelligent Computing with Applications in the Multimedia Systems -- Computational Intelligence in Chemoinformatics -- Strategy Design and Optimization of Complex Engineering Problems -- Traffic Optimization -- Intelligent Mobile and Wireless Sensor Networks -- Intelligent Prediction and Time Series Analysis -- Intelligent Computing

Sommario/riassunto

The International Conference on Intelligent Computing (ICIC) was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intelligence, machine learning, bioinformatics, and computational biology, etc. It aims to bring together researchers and practitioners from both academia and industry to share ideas, problems and solutions related to the multifaceted aspects of intelligent computing. ICIC 2007, held in Qingdao, China, August 21-24, 2007, constituted the Third international Conference on Intelligent Computing. It built upon the success of ICIC 2006 and ICIC 2005 held in Kunming and Hefei, China, 2006 and 2005, respectively. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was "Advanced Intelligent Computing Technology and Applications". Papers focusing on this theme were solicited, addressing theories, methodologies, and applications in science and technology.