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Soggetti	Computer programming Computer engineering Computer networks User interfaces (Computer systems) Human-computer interaction Artificial intelligence Pattern recognition systems Application software Programming Techniques Computer Engineering and Networks User Interfaces and Human Computer Interaction Artificial Intelligence Automated Pattern Recognition Computer and Information Systems Applications
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Semi-supervised Learning -- Unsupervised and Reinforcement Learning -- Combinatorial and Numerical Optimization -- Systems Biology and Computational Biology -- Neural Computing and Optimization -- Nature Inspired Computing and Optimization -- Knowledge Discovery and Data Mining -- Artificial Life and Artificial Immune Systems -- Intelligent Computing in Image Processing -- Special Session on New Hand-Based Biometric Methods -- Special Session on Recent Advances in Image Segmentation -- Special Session on Theories and Applications in Advanced Intelligent Computing -- Special Session on Search Based Software Engineering -- Special Session on Bio-inspired Computing and Applications -- Special Session on Advance in Dimensionality Reduction Methods and Its Applications -- Special Session on Protein and Gene Bioinformatics: Methods and Applications.

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## 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, pattern recognition, image processing, bioinformatics, and computational biology. 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 2010, held in Changsha, China, August 18-21, 2010, constituted the 6th International Conference on Intelligent Computing. It built upon the success of ICIC 2009, ICIC 2008, ICIC 2007, ICIC 2006, and ICIC 2005 that were held in Ulsan, Korea, Shanghai, Qingdao, Kunming and Hefei, China, 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.

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