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Three Pixels -- Alphanumeric Shape Recognition of Fingertip Writing Trajectory -- Recognition of Tire Tread Patterns Based on Gabor Wavelets and Support Vector Machine -- Advanced Knowledge Management (II) -- Terminological and Assertional Queries in KQL Knowledge Access Language -- Conditional Statements Grounded in Past, Present and Future -- Automatic Ontology Evolution in Open and Dynamic Computing Environments -- Diagnostic Tests Based on Knowledge States -- An Ontology-Supported Ubiquitous Interface Agent for Cloud Computing - Example on Zigbee Technique -- Semantic Optimization of Query Transformation in Semantic Peer-to-Peer Networks -- Intelligent Computing for Image Analysis (II) -- Comparative Studies of Parallel and Vertical Stereo Vision-Based 3D Pneumatic Arms -- An Effective Image Enhancement Method for Electronic Portal Images -- License Plate Tilt Correction Based on the Straight Line Fitting Method and Projection -- Differential Approximation of the 2-D Laplace Operator for Edge Detection in Digital Images -- ARToolkit-Based Augmented Reality System with Integrated 1-D Barcode: Combining Colorful Markers with Remote Servers of 3D Data for Product Promotion Purposes -- Innovative Information System and Application -- Design and Implementation of e-Journal Review System Using Text-Mining Technology -- Study on Architecture-Oriented Information Security Risk Assessment Model -- Constructing Problem-Based Learning Activities Using Self-assessment System -- Conducted EMI Analysis of a Three-Phase PWM Rectifier -- Synchronization of Duffing-Holmes Oscillators Using Stable Neural Network Controller -- Codes Base on Unambiguous Products -- Intelligent Computing for Networks -- A Study on the Topology Control Method for Bluetooth Scatternet Formation -- A Study on the Global Configured Method of Blueweb Routing Protocol -- Energy Efficient Framework for Mobility Supported Smart IP-WSN -- An Efficient Migration Framework for Mobile IPTV -- Auto-configuration Support for IPv4/IPv6 Translation in Smart Sensor Networks -- Soft Computing to Industrial Management and Applications -- Empirical Bayes Estimation of Customers' Guarantee Time Length of Loyalty -- An Integrated EPQ Model for Manufacturer's Replenishment Policies with Two Levels of Trade Credit Policy under Supplier Credits Linked to Ordering Quantity -- Modeling a Dynamic Design System Using the Mahalanobis Taguchi System— Two-Step Optimal Algorithm -- A Fuzzy Model Applied on Assessing Operating Performance of Industrial PC -- Inventory Models for Deteriorating Items with Variable Selling Price under Stock-Dependent Demand -- Innovations in Pervasive Computing -- Hierarchical IP Distribution Mechanism for VANET -- VisMusic: Music Visualization with Interactive Browsing -- The Study of Plagiarism Detection for Object-Oriented Programming Language -- A Distributed Sleep Scheduling Algorithm with Range Adjustment for Wireless Sensor Networks -- An Innovative Routing Algorithm with Reinforcement Learning and Pattern Tree Adjustment for Wireless Sensor Networks -- Biological Computing -- Swarm Intelligence for Cardinality-Constrained Portfolio Problems -- Immune Memory Mechanism Based on Cyclic Idiotypic Network -- Sensor Placement in Water Networks Using a Population-Based Ant Colony Optimization Algorithm -- The Codebook Design of Image Vector Quantization Based on the Firefly Algorithm -- Confronting Two-Pair Primer Design Using Particle Swarm Optimization -- Strategic Health Information Management and Forecast: The Birdwatching Approach.

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#### Sommario/riassunto

This volume composes the proceedings of the Second International Conference on Computational Collective Intelligence—Technologies and Applications (ICCCI 2010), which was hosted by National Kaohsiung

University of Applied Sciences and Wroclaw University of Technology, and was held in Kaohsiung City on November 10-12, 2010. ICCCI 2010 was technically co-sponsored by Shenzhen Graduate School of Harbin Institute of Technology, the Tainan Chapter of the IEEE Signal Processing Society, the Taiwan Association for Web Intelligence Consortium and the Taiwanese Association for Consumer Electronics. It aimed to bring together researchers, engineers and po- cymakers to discuss the related techniques, to exchange research ideas, and to make friends. ICCCI 2010 focused on the following themes: • Agent Theory and Application • Cognitive Modeling of Agent Systems • Computational Collective Intelligence • Computer Vision • Computational Intelligence • Hybrid Systems • Intelligent Image Processing • Information Hiding • Machine Learning • Social Networks • Web Intelligence and Interaction Around 500 papers were submitted to ICCCI 2010 and each paper was reviewed by at least two referees. The referees were from universities and industrial organizations. 155 papers were accepted for the final technical program. Four plenary talks were kindly offered by: Gary G. Yen (Oklahoma State University, USA), on “Population Control in Evolutionary Multi-objective Optimization Algorithm,” Chin-Chen Chang (Feng Chia University, Taiwan), on “Applying De-clustering Concept to Information Hiding,” Qinyu Zhang (Harbin Institute of Technology, China), on “Cognitive Radio Networks and Its Applications,” and Lakhmi C.

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