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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Web Intelligence, Text and Multimedia Mining and Retrieval -- Semantics-Based Representation Model for Multi-layer Text Classification -- Frequent Itemset Based Hierarchical Document Clustering Using Wikipedia as External Knowledge -- Automatic Authorship Attribution for Texts in Croatian Language Using Combinations of Features -- Visualization of Text Streams: A Survey --

Combining Semantic and Content Based Image Retrieval in ORDBMS --  
A Historically-Based Task Composition Mechanism to Support  
Spontaneous Interactions among Users in Urban Computing  
Environments -- Multi-criteria Retrieval in Cultural Heritage  
Recommendation Systems -- An Approach for the Automatic  
Recommendation of Ontologies Using Collaborative Knowledge --  
Knowledge Mining with ELM System -- DOCODE-Lite: A Meta-Search  
Engine for Document Similarity Retrieval -- Intelligent Tutoring Systems  
and E-Learning Environments -- Group Formation for Collaboration in  
Exploratory Learning Using Group Technology Techniques -- Applying  
Pedagogical Analyses to Create an On-Line Course for e Learning --  
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Considering the Nonlinear Nature of Roundtrip Response Time --  
Improving Iterated Local Search Solution for the Linear Ordering  
Problem with Cumulative Costs (LOPCC) -- A Common-Sense Planning  
Strategy for Ambient Intelligence -- Dialogue Manager for a NLIDB for  
Solving the Semantic Ellipsis Problem in Query Formulation -- Hand  
Gesture Recognition Based on Segmented Singular Value  
Decomposition -- Reasoning and Inference Rules in Basic Linear  
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and Search, a Proposed Synthesis -- Categorizing User Interests in  
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Spellchecker for Croatian Language -- Light-Weight Access Control  
Scheme for XML Data -- A New Distributed Particle Swarm Optimization  
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Applied to a Railway Pantograph-Catenary System -- Floor Circulation  
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Source of Signal in Plant Alarm System -- Coloured Petri Net  
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ConsistencyChecking Method of Inventory Control for Countermeasures  
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Engineering -- Fuzzy Group Evaluating the Aggregative Risk Rate of  
Software Development -- Fuzzy Power System Reliability Model Based  
on Value-at-Risk -- Human Tracking: A State-of-Art Survey -- Ordinal  
Structure Fuzzy Logic Predictor for Consumer Behaviour -- Kansei for  
Colors Depending on Objects -- A Hybrid Intelligent Algorithm for

Solving the Bilevel Programming Models -- Knowledge Engineering and Smart Systems -- Using Semantics to Bridge the Information and Knowledge Sharing Gaps in Virtual Engineering -- Discovering and Usage of Customer Knowledge in QoS Mechanism for B2C Web Server Systems -- Conceptual Fuzzy Model of the Polish Internet Mortgage Market -- Translations of Service Level Agreement in Systems Based on Service Oriented Architecture -- Ontology Engineering Aspects in the Intelligent Systems Development -- Supporting Software Project Management Processes Using the Agent System -- Knowledge-Based Virtual Organizations for the E-Decisional Community -- Decisional DNA Applied to Robotics -- Supporting Management Decisions with Intelligent Mechanisms of Obtaining and Processing Knowledge -- Finding Inner Copy Communities Using Social Network Analysis -- Enhancing Social Network Analysis with a Concept-Based Text Mining Approach to Discover Key Members on a Virtual Community of Practice -- Intelligence Infrastructure: Architecture Discussion: Performance, Availability and Management -- Skill Acquisition and Ubiquitous Human Computer Interaction -- Geometric Considerations of Search Behavior -- A Web-Community Supporting Self-management for Runners with Annotation -- An Analysis of Background-Color Effects on the Scores of a Computer-Based English Test -- Message Ferry Route Design Based on Clustering for Sparse Ad hoc Networks -- Affordance in Dynamic Objects Based on Face Recognition.

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#### Sommario/riassunto

th The 14 International Conference on Knowledge-Based and Intelligent Information and Engineering Systems was held during September 8–10, 2010 in Cardiff, UK. The conference was organized by the School of Engineering at Cardiff University, UK and KES International. KES2010 provided an international scientific forum for the presentation of the - sults of high-quality research on a broad range of intelligent systems topics. The c- ference attracted over 360 submissions from 42 countries and 6 continents: Argentina, Australia, Belgium, Brazil, Bulgaria, Canada, Chile, China, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong ROC, Hungary, India, Iran, Ireland, Israel, Italy, Japan, Korea, Malaysia, Mexico, The Netherlands, New Zealand, Pakistan, Poland, Romania, Singapore, Slovenia, Spain, Sweden, Syria, Taiwan, - nisia, Turkey, UK, USA and Vietnam. The conference consisted of 6 keynote talks, 11 general tracks and 29 invited s- sions and workshops, on the applications and theory of intelligent systems and related areas. The distinguished keynote speakers were Christopher Bishop, UK, Nikola - sabov, New Zealand, Saeid Nahavandi, Australia, Tetsuo Sawaragi, Japan, Yuzuru Tanaka, Japan and Roger Whitaker, UK. Over 240 oral and poster presentations provided excellent opportunities for the presentation of interesting new research results and discussion about them, leading to knowledge transfer and generation of new ideas. Extended versions of selected papers were considered for publication in the Int- national Journal of Knowledge-Based and Intelligent Engineering Systems, Engine- ing Applications of Artificial Intelligence, Journal of Intelligent Manufacturing, and Neural Computing and Applications.

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