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	Nota di contenuto	Keynote Talks -- Evolving Integrative Brain-, Gene-, and Quantum Inspired Systems for Computational Intelligence and Knowledge Engineering -- A Semiotic View of Social Intelligence for Realizing Human-Machine Symbiotic Systems -- Embracing Uncertainty: The New Machine Intelligence -- Exploiting Social Structures and Social Networks -- Knowledge Visualization for Engineered Systems --

Proximity-Based Federation of Smart Objects: Liberating Ubiquitous Computing from Stereotyped Application Scenarios -- Artificial Neural Networks, Connectionists Systems and Evolutionary Computation -- A Neural Network Model to Develop Urban Acupuncture -- Discovering Process Models with Genetic Algorithms Using Sampling -- A Multi-Objective Evolutionary Approach for the Antenna Positioning Problem -- CLONAL-GP Framework for Artificial Immune System Inspired Genetic Programming for Classification -- Solving Industrial Based Job-Shop Scheduling Problem by Distributed Micro-Genetic Algorithm with Local Search -- Data Mining via Rules Extracted from GMDH: An Application to Predict Churn in Bank Credit Cards -- Sensitivity Analysis and Automatic Calibration of a Rainfall-Runoff Model Using Multi-objectives -- University Course Timetabling Using ACO: A Case Study on Laboratory Exercises -- Machine Learning and Classical AI -- Nonparametric Statistical Analysis of Machine Learning Algorithms for Regression Problems -- Adaptive Learning of Nominal Concepts for Supervised Classification -- A Novel Approach of Process Mining with Event Graph -- A Classification Algorithm for Process Sequences Based on Markov Chains and Bayesian Networks -- Coaching to Enhance the Online Behavior Learning of a Robotic Agent -- Agent and Multi-agent Systems -- Cooperation of AGVs' Head-on Collision Avoidance by Knowledge Exchange in Autonomous Decentralized FMS -- A Log Analyzer Agent for Intrusion Detection in a Multi-Agent System -- A Proof System for Time-Dependent Multi-agents -- Toward Emotional E-Commerce: Formalizing Agents for a Simple Negotiation Protocol -- Distributed Ant Colony Clustering Using Mobile Agents and Its Effects -- Monitoring a Multi-Agent System Evolution through Iterative Development -- An Agent for Ecological Deliberation -- A Framework to Compute Inference Rules Valid in Agents' Temporal Logics -- Statecharts-Based JADE Agents and Tools for Engineering Multi-Agent Systems -- Telco Agent: Enabler of Paradigm Shift towards Customer-Managed Relationship -- Multi-attribute Auction Model for Agent-Based Content Trading in Telecom Markets -- Applying Possibility and Belief Operators to Conditional Statements -- A Computer Adaptive Testing Method for Intelligent Tutoring Systems -- Intelligent Vision, Image Processing and Signal Processing -- Combining Patient Metadata Extraction and Automatic Image Parsing for the Generation of an Anatomic Atlas -- Parallel Processing with CUDA in Ceramic Tiles Classification -- Signal Receiving and Processing Platform of the Experimental Passive Radar for Intelligent Surveillance System Using Software Defined Radio Approach -- Automated Anticounterfeiting Inspection Methods for Rigid Films Based on Infrared and Ultraviolet Pigments and Supervised Image Segmentation and Classification -- Vowel Recognition by Using the Combination of Haar Wavelet and Neural Network -- Bayesian Classification Using DCT Features for Brain Tumor Detection -- A New Strategy of Adaptive Nonlinear Echo Cancelling Volterra-Wiener Filter Structure Selection -- Intelligent System for Commercial Block Recognition Using Audio Signal Only -- Viewpoint Insensitive Actions Recognition Using Hidden Conditional Random Fields -- Fuzzy Hyper-Prototype Clustering -- Knowledge Management, Ontologies and Data Mining -- Clustering Using Difference Criterion of Distortion Ratios -- Computer-Generated Conversation Based on Newspaper Headline Interpretation -- Using Regression Analysis to Identify Patterns of Non-Technical Losses on Power Utilities -- Enhancing the Symbolic Aggregate Approximation Method Using Updated Lookup Tables -- Which XML Storage for Knowledge and Ontology Systems? -- Finding Temporal Patterns Using Constraints on (Partial) Absence, Presence and Duration -- Clustering

Based on Kolmogorov Information -- Rule Extraction from Support Vector Machine Using Modified Active Learning Based Approach: An Application to CRM -- Factorizing Three-Way Binary Data with Triadic Formal Concepts -- Application of Ontological Engineering in Customs Domain -- Classification and Prediction of Academic Talent Using Data Mining Techniques -- Test-Cost Sensitive Classification on Data with Missing Values in the Limited Time -- Modified K-Means Clustering for Travel Time Prediction Based on Historical Traffic Data -- An Ontology–Based Approach for Autonomous Systems' Description and Engineering -- Search Space Reduction for an Efficient Handling of Empty Answers in Database Flexible Querying -- Using Association Rules to Discover Color-Emotion Relationships Based on Social Tagging -- A Conceptual Framework for Role-Based Knowledge Profiling Using Semiotics Approach -- Using Biased Discriminant Analysis for Email Filtering -- Use of Geospatial Analyses for Semantic Reasoning -- Application of Knowledge Models in Healthcare -- Computer-Based Dietary Menu Planning: How to Support It by Complex Knowledge? -- Flexible Semantic Querying of Clinical Archetypes -- A Formal Domain Model for Dietary and Physical Activity Counseling -- Semantic Technologies for Knowledge Workers -- An Ontology Based Approach to Measuring the Semantic Similarity between Information Objects in Personal Information Collections -- Ontology Based Graphical Query Language Supporting Recursion -- Using Concept Maps to Improve Proactive Information Delivery in TaskNavigator -- A Vocabulary Building Mechanism Based on Lexical Semantics for Querying the Semantic Web -- Designing a Knowledge Mapping Tool for Knowledge Workers.

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.