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| Nota di contenuto | Keynote Talks -- Using Neural Imaging to Inform the Instruction of Mathematics -- Distributed Human-Machine Systems: Progress and Prospects -- Large Scale Reasoning on the Semantic Web: What to Do When Success Is Becoming a Problem -- How Midazolam Can Help Us Understand Human Memory: 3 Illustrations and a Proposal for a New Methodology -- Research on Brain-Like Computer -- A Framework for |

Machine Learning with Ambiguous Objects -- Special Session on Conversational Informatics -- Implementing a Multi-user Tour Guide System with an Embodied Conversational Agent -- Actively Adaptive Agent for Human-Agent Collaborative Task -- Low-Overhead 3D Items Drawing Engine for Communicating Situated Knowledge -- A Method to Detect Lies in Free Communication Using Diverse Nonverbal Information: Towards an Attentive Agent -- An Integrative Agent Model for Adaptive Human-Aware Presentation of Information during Demanding Tasks -- Special Session on Human-Web Interaction -- Consumer Decision Making in Knowledge-Based Recommendation -- Incremental Learning of Triadic PLSA for Collaborative Filtering -- Interactive Storyboard: Animated Story Creation on Touch Interfaces -- Comparative Evaluation of Reliabilities on Semantic Search Functions: Auto-complete and Entity-Centric Unified Search -- Integrated Recommender Systems Based on Ontology and Usage Mining -- Active Media Retrieval and Sharing -- Knowledge-Based Concept Score Fusion for Multimedia Retrieval -- Example-Based Query Analysis Using Functional Conceptual Graphs -- Checking Satisfactions of XML Referential Integrity Constraints -- A Verification Method of Hyponymy between Chinese Terms Based on Concept Space -- Sharing Mobile Multimedia Annotations to Support Inquiry-Based Learning Using MobiTOP -- Understanding Perceived Gratifications for Mobile Content Sharing and Retrieval in a Game-Based Environment -- Why We Share: A Study of Motivations for Mobile Media Sharing -- Active Support Systems and Intelligent Interfaces -- The Layout of Web Pages: A Study on the Relation between Information Forms and Locations Using Eye-Tracking -- Human Characteristics on Length Perception with Three Fingers for Tactile Intelligent Interfaces -- A Model and Environment for Improving Multimedia Intensive Reading Practices -- Study on Adaptive Computer-Assisted Instruction for In-Service Training -- Research on Recreational Sports Instruction Using an Expert System -- Smart Digital Media -- Using 6LowPAN UPnP and OSGi to Implement Adaptable Home Ambient Intelligence Network Platform -- Low Frequency Domain Aided Texture Synthesis for Intra Prediction -- A Novel Geometry Image Coding -- Musical Style Classification Using Low-Level Features -- Multi-agent Systems and Autonomy-Oriented Computing -- Enterprise Cluster Dynamics and Innovation Diffusion: A New Scientific Approach -- A Novel Application of Organic Plant Farming Analysis System – Using Game Theory and Multi-Agent Technique -- A Dynamic Trust Network for Autonomy-Oriented Partner Finding -- Modeling an Educational Multi-Agent System in MaSE -- Enhancing Decentralized MAS-Based Framework for Composite Web Services Orchestration and Exception Handling by Means of Mobile Agents Technology -- Multi-objective Analysis on Optimization of Negotiation Support -- Data Mining and Ontology Mining in Active Media -- Rough Set Based Personalized Recommendation in Mobile Commerce -- SpamTerminator: A Personal Anti-spam Add-In for Outlook -- Classifying Images with Image and Text Search Clickthrough Data -- A Novel Fast Inter Mode Decision Algorithm in H. 264/AVC for Forest Fire Prevention Surveillance -- A Methodfor Analyzing Software Faults Based on Mining Outliers' Feature Attribute Sets -- Web Intelligence -- Unifying Web-Scale Search and Reasoning from the Viewpoint of Granularity -- The Quest for Parallel Reasoning on the Semantic Web -- A Model for Personalized Web-Scale Case Base Maintenance -- X3D-Based Web 3D Resources Integration and Reediting -- Providing Relevant Answers for Queries over E-Commerce Web Databases -- Detecting News Event from a Citizen Journalism Website Using Tags -- Networks and Security -- A New Mechanism for

Job Scheduling in Computational Grid Network Environments -- Efficient and Provably Secure Self-certified Signature Scheme -- A Reversible Watermarking Scheme for 3D Meshes -- Neighbor-List Based Pairwise Key Management Scheme in Wireless Sensor Networks.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th International Conference on Active Media Technology, AMT 2009, held in Beijing, China, in October 2009. The 47 revised full papers and the 6 keynote talks were carefully reviewed and selected. The papers reflect the shared forum for researchers and practitioniers from diverse fields, such as computer science, information technology, artificial intelligence, media engineering, economics, data mining, data and knowledge engineering, intelligent agent technology, human computer interaction, complex systems and systems science. The book offers new insights into the main research challenges and development of AMT by revealing the interplay between the studies of human informatics and research of informatics on the Web/Internet, mobile and wireless centric intelligent information processing systems. .