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Soggetti	Database management Artificial intelligence Pattern recognition Application software Optical data processing User interfaces (Computer systems) Database Management Artificial Intelligence Pattern Recognition Information Systems Applications (incl. Internet) Image Processing and Computer Vision User Interfaces and Human Computer Interaction
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Keynote Talks -- Fractionating the Rational Brain -- Cognitive Informatics and Denotational Mathematical Means for Brain Informatics -- Cognitive Computing -- An Adaptive Model for Dynamics of Desiring and Feeling Based on Hebbian Learning -- Modelling the Emergence of Group Decisions Based on Mirroring and Somatic Marking -- Rank-Score Characteristics (RSC) Function and Cognitive Diversity -- Cognitive Effort for Multi-agent Systems -- Behavioural Abstraction of

Agent Models Addressing Mutual Interaction of Cognitive and Affective Processes -- Data Brain and Analysis -- The Effect of the Normalization Strategy on Voxel-Based Analysis of DTI Images: A Pattern Recognition Based Assessment -- Single Trial Classification of EEG and Peripheral Physiological Signals for Recognition of Emotions Induced by Music Videos -- Brain Signal Recognition and Conversion towards Symbiosis with Ambulatory Humanoids -- Feature Rating by Random Subspaces for Functional Brain Mapping -- Recurrence Plots for Identifying Memory Components in Single-Trial EEGs -- Comparing EEG/ERP-Like and fMRI-Like Techniques for Reading Machine Thoughts -- Improving Individual Identification in Security Check with an EEG Based Biometric Solution -- Neuronal Modeling and Brain Modeling -- Segmentation of 3D Brain Structures Using the Bayesian Generalized Fast Marching Method -- Domain-Specific Modeling as a Pragmatic Approach to Neuronal Model Descriptions -- Guessing What's on Your Mind: Using the N400 in Brain Computer Interfaces -- A Brain Data Integration Model Based on Multiple Ontology and Semantic Similarity -- Perception and Information Processing -- How Does Repetition of Signals Increase Precision of Numerical Judgment? -- Sparse Regression Models of Pain Perception -- A Study of Mozart Effect on Arousal, Mood, and Attentional Blink -- Learning -- Attentional Disengage from Test-Related Pictures in Test-Anxious Students: Evidence from Event-Related Potentials -- Concept Learning in Text Comprehension -- A Qualitative Approach of Learning in Parkinson's Disease -- Cognition-Inspired Applications -- Modelling Caregiving Interactions during Stress -- Computational Modeling and Analysis of Therapeutical Interventions for Depression -- A Time Series Based Method for Analyzing and Predicting Personalized Medical Data -- Language Analytics for Assessing Brain Health: Cognitive Impairment, Depression and Pre-symptomatic Alzheimer's Disease -- The Effect of Sequence Complexity on the Construction of Protein-Protein Interaction Networks -- Data Fusion and Feature Selection for Alzheimer's Diagnosis -- A Cognitive Architecture Based on Neuroscience for the Control of Virtual 3D Human Creatures -- Towards Inexpensive BCI Control for Wheelchair Navigation in the Enabled Environment -- A Hardware Survey -- Expression Recognition Methods Based on Feature Fusion -- Investigation on Human Characteristics of Japanese Katakana Recognition by Active Touch -- WICI Perspectives on Brain Informatics -- Towards Systematic Human Brain Data Management Using a Data-Brain Based GLS-BI System -- The Role of the Parahippocampal Cortex in Memory Encoding and Retrieval: An fMRI Study -- Brain Activation and Deactivation in Human Inductive Reasoning: An fMRI Study -- Clustering of fMRI Data Using Affinity Propagation -- Interaction between Visual Attention and Goal Control for Speeding Up Human Heuristic Search -- The Role of Posterior Parietal Cortex in Problem Representation -- Basic Level Advantage and Its Switching during Information Retrieval: An fMRI Study.

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