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Titolo	Bio-inspired Modeling of Cognitive Tasks [[electronic resource]] : Second International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2007, La Manga del Mar Menor, Spain, June 18-21, 2007, Proceedings, Part I // edited by José Mira, José R. Álvarez
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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4527
Disciplina	573.860113
Soggetti	Artificial intelligence Computer science Algorithms Computer vision Pattern recognition systems Bioinformatics Artificial Intelligence Theory of Computation Computer Vision Automated Pattern Recognition Computational and Systems Biology
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Neural Networks and Quantum Neurology: Speculative Heuristic Towards the Architecture of Psychism -- Physical Basis of Quantum Computation and Cryptography -- Brain Organization and Computation -- Concepts and Models for the Future Generation of Emotional and Intelligent Systems -- Modeling Consciousness for Autonomous Robot Exploration -- An Insect-Inspired Active Vision Approach for

Orientation Estimation with Panoramic Images -- Natural Interaction with a Robotic Head -- A Network of Interneurons Coupled by Electrical Synapses Behaves as a Coincidence Detector -- A Computational Structure for Generalized Visual Space-Time Chromatic Processing -- Physiological Laws of Sensory Visual System in Relation to Scaling Power Laws in Biological Neural Networks -- ANF Stochastic Low Rate Stimulation -- Functional Identification of Retinal Ganglion Cells Based on Neural Population Responses -- Towards a Neural-Networks Based Therapy for Limbs Spasticity -- A Bio-inspired Architecture for Cognitive Audio -- An Adaptable Multichannel Architecture for Cortical Stimulation -- Spiking Neural P Systems. Power and Efficiency -- Solving Subset Sum in Linear Time by Using Tissue P Systems with Cell Division -- On a P?un's Conjecture in Membrane Systems -- A Parallel DNA Algorithm Using a Microfluidic Device to Build Scheduling Grids -- P System Models of Bistable, Enzyme Driven Chemical Reaction Networks -- A Novel Improvement of Neural Network Classification Using Further Division of Partition Space -- Morphisms of ANN and the Computation of Least Fixed Points of Semantic Operators -- Predicting Human Immunodeficiency Virus (HIV) Drug Resistance Using Recurrent Neural Networks -- Error Weighting in Artificial Neural Networks Learning Interpreted as a Metaplasticity Model -- A First Approach to Birth Weight Prediction Using RBFNNs -- Filtering Documents with a Hybrid Neural Network Model -- A Single Layer Perceptron Approach to Selective Multi-task Learning -- Multi-task Neural Networks for Dealing with Missing Inputs -- Theoretical Study on the Capacity of Associative Memory with Multiple Reference Points -- Classification and Diagnosis of Heart Sounds and Murmurs Using Artificial Neural Networks -- Requirements for Machine Lifelong Learning -- Multitask Learning with Data Editing -- Efficient BP Algorithms for General Feedforward Neural Networks -- Coefficient Structure of Kernel Perceptrons and Support Vector Reduction -- The Max-Relevance and Min-Redundancy Greedy Bayesian Network Learning Algorithm -- On Affect and Self-adaptation: Potential Benefits of Valence-Controlled Action-Selection -- Detecting Anomalous Traffic Using Statistical Discriminator and Neural Decisional Motor -- A Learning Based Widrow-Hoff Delta Algorithm for Noise Reduction in Biomedical Signals -- Hopfield Neural Network and Boltzmann Machine Applied to Hardware Resource Distribution on Chips -- A New Rough Set Reduct Algorithm Based on Particle Swarm Optimization -- Use of Kohonen Maps as Feature Selector for Selective Attention Brain-Computer Interfaces -- Nature-Inspired Congestion Control: Using a Realistic Predator-Prey Model -- EDNA: Estimation of Dependency Networks Algorithm -- Grammar-Guided Neural Architecture Evolution -- Evolutionary Combining of Basis Function Neural Networks for Classification -- Non-linear Robust Identification: Application to a Thermal Process -- Gaining Insights into Laser Pulse Shaping by Evolution Strategies -- Simulated Evolution of the Adaptability of the Genetic Code Using Genetic Algorithms -- GCS with Real-Valued Input -- A Study on Genetic Algorithms for the DARP Problem -- Optimization of the Compression Parameters of a Phonocardiographic Telediagnosis System Using Genetic Algorithms -- An Integrated Resolution of Joint Production and Maintenance Scheduling Problem in Hybrid Flowshop -- Improving Cutting-Stock Plans with Multi-objective Genetic Algorithms -- Sensitivity Analysis for the Job Shop Problem with Uncertain Durations and Flexible Due Dates -- Comparative Study of Meta-heuristics for Solving Flow Shop Scheduling Problem Under Fuzziness -- Fusion of Neural Gas -- Decision Making Graphical Tool for Multiobjective Optimization Problems -- Electromagnetic Interference Reduction in Electronic

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Evolutionary Tool for the Incremental Design of Controllers for
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Composition Tasks.
