1. Record Nr. UNISA996465783003316

Titolo	Neural Nets [[electronic resource]] : 14th Italian Workshop on Neural Nets, WIRN VIETRI 2003, Vietri sul Mare, Italy, June 4-7, 2003, Revised Papers / / edited by Bruno Apolloni, Maria Marinaro, Roberto Tagliaferri
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-45216-8
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (XI, 376 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2859
Disciplina	006.32
Soggetti	Artificial intelligence Computers Microprocessors Mathematical statistics Pattern recognition Bioinformatics Artificial Intelligence Computation by Abstract Devices Processor Architectures Probability and Statistics in Computer Science Pattern Recognition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Eduardo R. Caianiello Lecture -- Nonparametric Hidden Markov Models: Principles and Applications to Speech Recognition -- Models -- Cooperative Games in a Stochastic Environment -- Lattice Models for Context-Driven Regularization in Motion Perception -- On the Dynamics of Scale-Free Boolean Networks -- Architectures and Algorithms -- A Deterministic Learning Approach Based on Discrepancy -- An Hybrid Neural/Genetic Approach to Continuous Multi-objective Optimization Problems -- An Algorithm to Model Paradigm Shifting in Fuzzy Clustering -- ANFIS Synthesis by Hyperplane Clustering for Time Series Prediction -- Generalized Splitting 2D Flexible Activation

Function -- Image and Signal Processing -- Face Localization with Recursive Neural Networks -- Multi-class Image Coding via EM-KLT Algorithm -- A Face Detection System Based on Color and Support Vector Machines -- A Neural Architecture for 3D Segmentation -- Automatic Polyphonic Piano Music Transcription by a Multi-classification Discriminative-Learning -- An Adaptive Learning Algorithm for ECG Noise and Baseline Drift Removal -- Towards an Automatic Lesion Segmentation Method for Dual Echo Magnetic Resonance Images Using an Ensemble of Neural Networks -- A Probabilistic Neural Networks System to Recognize 3D Face of People -- Dereverberation of Acoustic Signals by Independent Component Analysis -- Applications -- Supervised and Unsupervised Analysis Applied to Strombolian E.Q. -- Intracranial Pressure Signal Processing by Adaptive Fuzzy Network -- Soft Computing Techniques for Classification of Bronze Age Axes -- Environmental Risk and Territorial Compatibility: A Soft Computing Approach -- Neural Network Approach for Estimation and Prediction of Time to Disruption in Tokamak Reactors -- A Concurrent Neural Classifier for HTML Documents Retrieval -- Bayesian Modelling for Packet Channels -- Neural Networks for Photometric Redshifts Evaluation -- Special Session on “Bioinformatics and Statistics” Chaired by Francesco Masulli -- Prediction of Signal Peptide in Proteins with Neural Networks -- Proteomic Profiling of Inherited Breast Cancer: Identification of Molecular Targets for Early Detection, Prognosis and Treatment, and Related Bioinformatics Tools -- Browsing Large Pedigrees to Study of the Isolated Populations in the “Parco Nazionale del Cilento e Vallo di Diano” -- Monitoring of Car Driving Awareness from Biosignals -- Markov Analysis of Protein Sequence Similarities -- Divergence Projections for Variable Selection in Multi–layer Perceptron Networks -- Large Scale Prediction of Protein Interactions by a SVM-Based Method -- Gene Selection Using Random Voronoi Ensembles -- QSAR/QSPR Studies by Kernel Machines, Recursive Neural Networks and Their Integration -- An Application of Low Bias Bagged SVMs to the Classification of Heterogeneous Malignant Tissues -- Special Session on “Formats of Knowledge: words, images, narratives” Chaired by Maria Rita Ciceri -- Narrative Thought in Childhood and Adolescence Hierarchical Models of Story Composition and Interpretation -- Degrees of Similarity in Knowledge Transfer -- Formats and Languages of Knowledge: Models of Links for Learning Processes -- Pictures and Words: Analogies and Specificity in Knowledge Organization -- Emotional and Metaemotional Competence: A Developmental View.

2. Record Nr. UNINA9910485021903321

Titolo	Optical Supercomputing : Second International Workshop, OSC 2009, Bertinoro, Italy, November 18-20, 2009, Proceedings / / edited by Shlomi Dolev, Mihai Oltean
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	3-642-10442-8
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (X, 155 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5882
Classificazione	DAT 165f SS 4800
Altri autori (Persone)	DolevShlomi OlteanMihai
Disciplina	004n/a
Soggetti	Computer programming Computer science Elementary particles (Physics) Quantum field theory Artificial intelligence Spintronics Quantum physics Programming Techniques Theory of Computation Elementary Particles, Quantum Field Theory Artificial Intelligence Quantum Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talk: What Can We Learn from an Image? -- Nanophotonics for Information Systems -- All-Optical Clocked Flip-Flops Exploiting SOA-Based SR Latches and Logic Gates -- All-Optical Logic Gates Based on Semiconductor Optical Amplifiers and Tunable Filters -- Zero-Energy Optical Logic: Can It Be Practical? -- On Attributes and Limitations of Linear Optics in Computing -- Optical Designs for Non-deterministic Turing Machines -- Evolutionary Design of Graph-Based Structures for

Optical Computing -- Computing a Solution for the Subset Sum Problem with a Light Based Device -- An Optical Wavelength-Based Solution to the 3-SAT Problem -- Incoherent Optical Spatial Image Processing -- A Scheme for SIMD Processing in Two Dimensional Binary Images and Its Applications -- Proposal for Secure Key Distribution Using Classical Optics -- Analyze the Discrete Photo-Induced Current Pulses of the Photorefractive Spatial Light Modulator -- Optical Multiplexing Techniques for Photonic Clos Networks in High Performance Computing Architectures -- Improvement of a System for Prime Factorization Based on Optical Interferometer -- Combinatorial Optimization Using Electro-Optical Vector by Matrix Multiplication Architecture -- Dynamic Optical Circuit Switching Applied to Storage Area Networks -- Optical Correlator for Star Identification and Tracking.

Sommario/riassunto

This book constitutes the refereed proceedings of the The Second International Workshop on Optical SuperComputing, OSC 2009, held in Bertinoro, Italy, in November 2009. The 18 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from numerous submissions for inclusion in the book. Being an annual forum for research presentations on all facets of optical computing for solving hard computation tasks, OCS addresses the following topics of interest: designs of optical computing devices, algorithmics and complexity issues of optical computing, computation representation by photons and holograms, neural and brain inspired architectures, electro-optic devices, practical implementations, analysis of existing devices and case studies, optical photonics and laser switching technologies, optical and photonic memories, optical signal processing subsystems, optical networks for high-performance computing, optical interconnections, quantum optical systems, applications and algorithms for optical devices, Alpha particles, X-rays, and nano-technologies for optical computing.