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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2486
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Soggetti	Artificial intelligence Optical data processing Computer programming Computers Logic design Microprocessors Artificial Intelligence Image Processing and Computer Vision Programming Techniques Computation by Abstract Devices Logic Design Processor Architectures
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Review Papers -- Ensembles of Learning Machines -- Eduardo R. Caianiello Lecture -- Learning Preference Relations from Data -- Francesco E. Lauria Lecture -- Increasing the Biological Inspiration of Neural Networks -- Architectures and Algorithms -- Hybrid Automatic Trading Systems: Technical Analysis & Group Method of Data Handling -- Interval TOPSIS for Multicriteria Decision Making -- A Distributed Algorithm for Max Independent Set Problem Based on Hopfield Networks -- Extended Random Neural Networks -- Generalized Independent Component Analysis as Density Estimation -- Spline

Recurrent Neural Networks for Quad-Tree Video Coding -- MLP Neural Network Implementation on a SIMD Architecture -- Image and Signal Processing -- A New Approach to Detection of Muscle Activation by Independent Component Analysis and Wavelet Transform -- Learning to Balance Upright Posture: What can be Learnt Using Adaptive NN Models? -- Detection of Facial Features -- A Two Stage Neural Architecture for Segmentation and Superquadrics Recovery from Range Data -- Automatic Discrimination of Earthquakes and False Events in Seismological Recording for Volcanic Monitoring -- A Comparison of Signal Compression Methods by Sparse Solution of Linear Systems -- Fuzzy Time Series for Forecasting Pollutants Concentration in the Air -- Real-Time Perceptual Coding of Wideband Speech by Competitive Neural Networks -- Sound Synthesis by Flexible Activation Function Recurrent Neural Networks -- Special Session on "Learning in Neural Networks: Limitations and Future Trends" Chaired by Marco Gori -- Mathematical Modelling of Generalization -- Structural Complexity and Neural Networks -- Bayesian Learning Techniques: Application to Neural Networks with Constraints on Weight Space -- A Short Review of Statistical Learning Theory -- Increasing the Biological Inspiration of Neural Networks.

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