

《人工神经网络 - ICANN 200》

图书基本信息

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内容概要

The two volume set LNCS 4131 and LNCS 4132 constitutes the refereed proceedings of the 16th International Conference on Artificial Neural Networks, ICANN 2006, held in Athens, Greece, in September 2006. The 208 revised full papers presented were carefully reviewed and selected from 475 submissions. The 103 papers of the first volume are organized in topical sections on feature selection and dimension reduction for regression, learning algorithms, advances in neural network learning methods, ensemble learning, learning random neural networks and stochastic agents, hybrid architectures, self organization, connectionist cognitive science, cognitive machines, neural dynamics and complex systems, computational neuroscience, neural control, reinforcement learning and robotics applications, robotics, control, planning, as well as bio-inspired neural network on-chip implementation and applications. The second volume contains 105 contributions related to neural networks, semantic web technologies and multimedia analysis, bridging the semantic gap in multimedia machine learning approaches, signal and time series processing, data analysis, pattern recognition, visual attention algorithms and architectures for perceptual understanding and video coding, vision and image processing, computational finance and economics, neural computing in energy engineering, applications to biomedicine and bioinformatics, applications to security and market analysis, as well as real world applications.

书籍目录

Feature Selection and Dimension Reduction for Regression (Special Session) Dimensionality Reduction Based on ICA for Regression Problems A Functional Approach to Variable Selection in Spectrometric Problems The Bayes-Optimal Feature Extraction Procedure for Pattern Recognition Using Genetic Algorithm Speeding Up the Wrapper Feature Subset Selection in Regression by Mutual Information Relevance and Redundancy Analysis Effective Input Variable Selection for Function Approximation Comparative Investigation on Dimension Reduction and Regression in Three Layer Feed-Forward Neural Network Learning Algorithms (I) On-Line Learning with Structural Adaptation in a Network of Spiking Neurons for Visual Pattern Recognition Learning Long Term Dependencies with Recurrent Neural Networks Adaptive On-Line Neural Network Retraining for Real Life Multimodal Emotion Recognition Time Window Width Influence on Dynamic BPTT(h) Learning Algorithm Performances: Experimental Study Framework for the Interactive Learning of Artificial Neural Networks Analytic Equivalence of Bayes a Posteriori Distributions Learning Algorithms (II) Neural Network Architecture Selection: Size Depends on Function Complexity Competitive Repetition-suppression (CoRe) Learning Real-Time Construction of Neural Networks MaxMinOver Regression: A Simple Incremental Approach for Support Vector Function Approximation A Variational Formulation for the Multilayer Perceptron Advances in Neural Network Learning Methods (Special Session) Natural Conjugate Gradient Training of Multilayer Perceptrons Building Ensembles of Neural Networks with Class-Switching K-Separability..... Ensemble Learning Learning Random Neural Networks and Stochastic Agents (Special Session) Hybrid Architectures Self Organization Connectionist Cognitive Science Cognitive Machines (Special Session) Neural Dynamics and Complex Systems Computational Neuroscience Neural Control, Reinforcement Learning and Robotics Applications Robotics, Control, Planning Bio-inspired Neural Network On-Chip Implementation and Applications (Special session) Author Index

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