

<<神经信息处理LNCS-4232>>

图书基本信息

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作者：King, Irwin/ Wang, Jun/ Chan, Laiwan/ Wang, Deliang

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## 内容概要

The three volume set LNCS 4232, LNCS 4233, and LNCS 4234 constitutes the refereed proceedings of the 13th International Conference on Neural Information Processing, ICONIP 2006, held in Hong Kong, China in October 2006. The 386 revised full papers presented were carefully reviewed and selected from 1175 submissions. The 126 papers of the first volume are organized in topical sections on neurobiological modeling and analysis, cognitive processing, mathematical modeling and analysis, learning algorithms, support vector machines, self-organizing maps, as well as independent component analysis and blind source separation. The second volume contains 128 contributions related to pattern classification, face analysis and processing, image processing, signal processing, computer vision, data pre-processing, forecasting and prediction, as well as neurodynamic and particle swarm optimization. The third volume offers 131 papers that deal with bioinformatics and biomedical applications, information security, data and text processing, financial applications, manufacturing systems, control and robotics, evolutionary algorithms and systems, fuzzy systems, and hardware implementations.

书籍目录

Neurobiological Modeling and Analysis How Reward Can Induce Reverse Replay of Behavioral Sequences in the Hippocampus Analysis of Early Hypoxia EEG Based on a Novel Chaotic Neural Network BCM-Type Synaptic Plasticity Model Using a Linear Summation of Calcium Elevations as a Sliding Threshold A New Method for Multiple Spike Train Analysis Based on Information Discrepancy Self-organizing Rhythmic Patterns with Spatio-temporal Spikes in Class I and Class II Neural Networks Self-organization Through Spike-Timing Dependent Plasticity Using Localized Synfire-Chain Patterns Comparison of Spike-Train Responses of a Pair of Coupled Neurons Under the External Stimulus Fatigue-Induced Reversed Hemispheric Plasticity During Motor Repetitions: A Brain Electrophysiological Study Functional Differences Between the Spatio-temporal Learning Rule (STLR) and Hebb Type (HEBB) in Single Pyramidal Cells in the Hippocampal CA1 Area Ratio of Average Inhibitory to Excitatory Conductance Modulates the Response of Simple Cell Cognitive Processing Sequence Disambiguation by Functionally Divided Hippocampal CA3 Model A Time-Dependent Model of Information Capacity of Visual Attention Learning with Incrementality Lability of Reactivated Human Declarative Memory A Neuropsychologically-Inspired Computational Approach to the Generalization of Cerebellar Learning A Neural Model for Stereo Transparency with the Population of the Disparity Energy Models Functional Connectivity in the Resting Brain: An Analysis Based on ICA Semantic Addressable Encoding Top-Down Attention Guided Object Detection.....Learning Algorithms Support Vector Machines Self-Organizing Map Independent Component Analysis and Blind Source Separation Author Index

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