

<<Artificial Neural Ne>>

图书基本信息

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内容概要

The two volume set LNCS 3696 and LNCS 3697 constitutes the refereed proceedings of the 15th International Conference on Artificial Neural Networks, ICANN 2005, held in Warsaw, Poland in September 2005. The over 600 papers submitted to ICANN 2005 were thoroughly reviewed and carefully selected for presentation. The first volume includes 106 contributions related to Biological Inspirations; topics addressed are modeling the brain and cognitive functions, development of cognitive powers in embodied systems spiking neural networks, associative memory models, models of biological functions, projects in the area of neuroIT, evolutionary and other biological inspirations, self-organizing maps and their applications, computer vision, face recognition and detection, sound and speech recognition, bioinformatics, biomedical applications, and information-theoretic concepts in biomedical data analysis. The second volume contains 162 contributions related to Formal Models and their Applications and deals with new neural network models, supervised learning algorithms, ensemble-based learning, unsupervised learning, recurrent neural networks, reinforcement learning, bayesian approaches to learning, learning theory, artificial neural networks for system modeling, decision making, optimization and control, knowledge extraction from neural networks, temporal data analysis, prediction and forecasting, support vector machines and kernel-based methods, soft computing methods for data representation, analysis and processing, data fusion for industrial, medical and environmental applications, non-linear predictive models for speech processing, intelligent multimedia and semantics, applications to natural language processing, various applications, computational intelligence in games, and issues in hardware implementation

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书籍目录

Modeling the Brain and Cognitive Functions Novelty Analysis in Dynamic Scene for Autonomous Mental Development The Computational Model to Simulate the Progress of Perceiving Patterns in Neuron Population Short Term Memory and Pattern Matching with Simple Echo State Networks Analytical Solution for Dynamic of Neuronal Populations Dynamics of Cortical Columns - Sensitive Decision Making Dynamics of Cortical Columns - Self-organization of Receptive Fields Optimal Information Transmission Through Cortico-Cortical Synapses Ensemble of SVMs for Improving Brain Computer Interface P300 Speller Performances Modelling Path Integrator Recalibration Using Hippocampal Place Cells Coding of Objects in Low-Level Visual Cortical Areas A Gradient Rule for the Plasticity of a Neuron's Intrinsic Excitability Building the Cerebellum in a Computer Special Session: The Development of Cognitive Powers in Embodied Systems Combining Attention and Value Maps Neural Network with Memory and Cognitive Functions Associative Learning in Hierarchical Self Organizing Learning Arrays A Review of Cognitive Processing in the Brain Spiking Neural Networks Neuronal Behavior with Sub-threshold Oscillations and Spiking/ Bursting Activity Using a Piecewise Linear Two-Dimensional Map On-Line Real-Time Oriented Application for Neuronal Spike Sorting with Unsupervised Learning A Spiking Neural Sparse Distributed Memory Implementation for Learning and Predicting Temporal Sequences ANN-Based System for Sorting Spike Waveforms Employing Refractory Periods Emergence of Oriented Cell Assemblies Associated with Spike-Timing-Dependent Plasticity.....Associative Memory Models Models of Biological Functions Special Session: Projects in the Area of NeuroIT Evolutionary and Other Biological Inspirations Self-organizing Maps and Their Applications Computer Vision Face Recognition and Detection Sound and Speech Recognition Bioninformatics Biomedical Applications Special Session : Information-Theoretic Concepts in Biomedical Data Analysis Acknowledgements to the Reviewers Author Index

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