

<<Advances in Neural N>>

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内容概要

The two volume set LNCS 3173/3174 constitutes the refereed proceedings of the International Symposium on Neural Networks, ISNN 2004, held in Dalian, China in August 2004. The 329 papers presented were carefully reviewed and selected from more than 800 submissions. The papers span the entire scope of neural computing and its applications; they are organized in 11 major topical parts on theoretical analysis; learning and optimization; support vector machines; blind source separation, independent component analysis, and principal component analysis; clustering and classification; robotics and control; telecommunications; signal image, and time series analysis; biomedical applications; detection, diagnosis, and computer security; and other applications.

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书籍目录

Part VI Robotics and Control Application of RBFNN for Humanoid Robot Real Time Optimal Trajectory Generation in Running Full-DOF Calibration-Free Robotic Hand-Eye Coordination Based on Fuzzy Neural Network Neuro-Fuzzy Hybrid Position/Force Control for a Space Robot with Flexible Dual-Arms Fuzzy Neural Networks Observer for Robotic Manipulators Based on H00 Approach Mobile Robot Path-Tracking Using an Adaptive Critic Learning PD Controller Reinforcement Learning and ART2 Neural Network Based Collision Avoidance System of Mobile Robot FEL-Based Adaptive Dynamic Inverse Control for Flexible Spacecraft Attitude Maneuver Multivariable Generalized Minimum Variance Control Based on Artificial Neural Networks and Gaussian Process Models A Neural Network Based Method for Solving Discrete-Time Nonlinear Output Regulation Problem in Sampled-Data Systems The Design of Fuzzy Controller by Means of CI Technologies-Based Estimation Technique A Neural Network Adaptive Controller for Explicit Congestion Control with Time Delay Robust Adaptive Control Using Neural Networks and Projection Design of PID Controllers Using Genetic Algorithms Approach for Low Damping, Slow Response Plants Neural Network Based Fault Tolerant Control of a Class of Nonlinear Systems with Input Time Delay Run-to-Run Iterative Optimization Control of Batch Processes Time-Delay Recurrent Neural Networks for Dynamic Systems Control Feedforward-Feedback Combined Control System Based on Neural Network Online Learning CMAC Neural Network Control Scheme for Nonlinear Systems Pole Placement Control for Nonlinear Systems via Neural Networks RBF NN-Based Backstepping Control for Strict Feedback Block Nonlinear System and Its Application Model Reference Control Based on SVM PID Controller Based on the Artificial Neural Network Fuzzy Predictive Control Based on PEMFC Stack. Adaptive Control for Induction Servo Motor Based on Wavelet Neural Networks.....Part VII TelecommunicationsPart VIII Signal ,Image and Time Series ProcessingPart IX Biomedical ApplicationsPart X Detection,Diagnosics ,and Computer SecurityPart IX Other ApplicationsAuthor Index

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