<< Advances in natural computation>>

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The two volume set LNCS 4221 and LNCS 4222 constitutes the refereed proceedings of the Second International Conference on Natural Computation, ICNC 2006, held in Xi'an, China, in September 2006 as a joint event in federation with the Third International Conference on Fuzzy Systems and Knowledge Discovery FSKD 2006 (LNAI 4223). After a demanding review process 168 carefully revised full papers and 86 revised short papers were selected from 1915 submissions for presentation in two volumes. The first volume includes 130 papers related to artificial neural networks, natural neural systems and cognitive science, neural network applications, as well as evolutionary computation: theory and algorithms. The 124 papers in the second volume are orgainzed in topical sections on other topics in natural computation, natural computation techniques applications, hardware, and cross-disciplinary topics.

Artificial Neural Networks   Hypersphere Support Vector Machines Based on Multiplicative Updates   The Study of Leave-One-Out Error-Based Classification Learning Algorithm for Generalization Performance   Gabor Feature Based Classification Using LDA/QZ Algorithm for Face Recognition   Breast Cancer Detection Using Hierarchical B-Spline Networks   Ensemble-Based Discriminant Manifold Learning for Face Recognition   Perceptual Leanfing Inspired Model Selection Method of Neural Networks   Improving Nearest Neighbor Rule with a Simple Adaptive Distance Measure   A Sparse Kernel-Based Least-Squares Temporal Difference Algorithm for Reinforcement Learning   Independent Component Analysis Based Blind Deconvolution of Spectroscopic Data   Parameterized Semi-supervised Classification Based on Support Vector for Multi-relational Data   Credit Scoring Model Based on Neural Network with Particle Swarm Optimization   A Novel CFNN Model for Designing Complex FIR Digital Filters   SAPSO Neural Network for Inspection of Non-development Hatching Eggs   Research on Stereographic Projection and It's Application on Feed Forward Neural Network   Fuzzy CMAC with Online Learning Ability and Its Application   Multiresolution Neural Networks Based on Immune Particle Swarm Algorithm   Multieategory Classification Based oil the Hypereube Self-Organizing Mapping (SOM) Scheme   Increased Storage Capacity in Hopfield Networks by Small-World Topology   Associative Memory with Small World Connectivity Built on Watts-Strogatz Model A Hopfiled Neural Network Based on Penalty Function with Objective Parameters   Study on Discharge Patterns of Hindmarsh-Rose Neurons Under Slow Wave Current Stinmlation   Proximal SVM Ensemble Based on Feature Selection……Natural Neural Systems and Cognitive ScienceNeural Network ApplicationsEvolutionary Computation: Theory and AlgorithmsAuthor index

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