<<Computational Intell>>

<<Computational Intelligence and Bioinspired Systems   >>

13 ISBN 9783540262084

10 ISBN 3540262083

2005-7

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1260

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This book constitutes the refereed proceedings of the 8th International Workshop on Artificial Neural Networks, IWANN 2005, held in Vilanova i la Geltrú, Barcelona, Spain in June 2005. The 150 revised papers presented – including the contribution of three invited speakers – were carefully reviewed and selected from 240 submissions for inclusion in the book and address the following topics: mathematical and theoretical methods, evolutionary computation, neurocomputational inspired models, learning and adaptation, radial basic functions structures, self-organizing networks and methods, support vector machines, cellular neural networks, hybrid systems, neuroengineering and hardware implementations, pattern recognition, perception and robotics and applications in a broad variety of fields.

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Mathematical and Theoretical MethodsEvolutionary computation Neurocomputational Inspired ModelsLearning and Adaptation Radial Basic Functions StructuresSelf-organizing Networks and MethodsSupport Vector MachinesCellular Neural NetworksHybrid SystemsNeuroengineering and Hardware ImplementationsPattern RecognitionPerception and RoboticsApplications on Data Analysis and PreprocessingApplications on Data MiningApplications on Signal ProcessingApplications on Image ProcessingApplications on ForecastingAPPlications on Independent Component Analysis and Blind Source Separation Applications on Power SystemsOther ApplicationsAuthor Index

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