

Kishan G. Mehrotra, Chilukuri Mohan, Jae C. Oh, Pramod K. Varshney,
and Moonis Ali (Eds.)

Developing Concepts in Applied Intelligence

Studies in Computational Intelligence, Volume 363

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Developing Concepts in Applied Intelligence

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Preface

“Artificial Intelligence” is an area of computer science that aims to develop important concepts for simulation of human intelligence whereas “Applied Intelligence” focuses on issues involving solutions of real-life problems, arising in defense, government, management, manufacturing and many other areas which are too complex to solve through conventional approaches. The objective of the International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE) is to promote and disseminate recent research developments in Applied Intelligence. It accepts quality papers on a wide range of topics in all disciplines including science, social science, art, engineering, and finance. Held yearly, the conference brings together scientists, engineers and practitioners, who work on designing and developing applications that use intelligent techniques and apply them to variety of application domains.

This book is published in the "Studies in Computational Intelligence" series by Springer Verlag. It is comprised of eighteen chapters providing up-to-date and state-of-the-art research on the applications of Applied Intelligence techniques. Each chapter contains a short paper authored by a participant of the 24th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE-2011). Each chapter was reviewed by at least two anonymous referees to assure the high quality.

The book covers a wide range of topics including Adaptive Learning, Belief Management, Multi-agent Systems, Genetic Algorithms, Neural Networks, and Fuzzy Modeling. This book provides useful reference values and readers will find opportunities as well as recognize challenges in the development and applications of intelligent systems.

We would like to thank Springer Verlag and Professor Janusz Kacprzyk, the editor of this series, for their help in publishing the book. We would also like to thank the reviewers for their hard work in assuring the high quality of the book. Finally, we cordially thank all the authors, who did important contributions to the book. Without their efforts, this book cannot be successfully carried out.

April 2011

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Contents

Section 1: Clustering, Data Refinement, and Applications

An Asymmetric Criterion for Cluster Validation	1
<i>Hosein Alizadeh, Behrouz Minaei, Hamid Parvin, Mohsen Moshki</i>	
Discovery of Domain Values for Data Quality Assurance	15
<i>Lukasz Ciszak</i>	
Dynamic Time Warping-Based K-Means Clustering for Accelerometer-Based Handwriting Recognition	21
<i>Minsu Jang, Mun-Sung Han, Jae-hong Kim, Hyun-Seung Yang</i>	
On Segmentation of Interaction Values	27
<i>Nguyen Chi Lam, Hiep Xuan Huynh, Fabrice Guillet</i>	
SI-APRENDE: An Intelligent Learning System Based on SCORM Learning Objects for Training Power Systems Operators	33
<i>Liliana Argotte, G. Arroyo-Figueroa, Julieta Noguez</i>	

Section 2: Neural Network, Support Vector Machines, and Genetic Algorithm

Least Squares Support Vector Machines for Channel Prediction in the MIMO System	39
<i>Jerzy Martyna</i>	

A Neural Computation Model Based on nCRF and Reverse Control Mechanism	45
<i>Hui Wei, Xiao-Mei Wang</i>	
Particle Swarm Optimization of a Recurrent Neural Network Control for an Underactuated Rotary Crane with Particle Filter Based State Estimation	51
<i>Sam Chau Duong, Hiroshi Kinjo, Eiho Uezato, Tetsuhiko Yamamoto</i>	
Extracting Connection Types in Process Models Discovered by Using From-to Chart Based Approach	59
<i>Eren Esgin, Pinar Senkul</i>	
Using Class Decomposition for Building GA with Fuzzy Rule-Based Classifiers	67
<i>Passent El-Kafrawy, Amr Sauber</i>	
Section 3: Game Theory, Optimization, Scheduling, and Routing	
Improving the Performance of Multi-start Search on the Traveling Salesman Problem	77
<i>Charles R. King, Mark McKenney, Dan E. Tamir</i>	
A Constraint Programming Application for Rotating Workforce Scheduling	83
<i>Markus Triska, Nysret Musliu</i>	
An Agent-Based Architecture for Multifaceted Online Dispute Resolution Tools	89
<i>Davide Carneiro, Paulo Novais, José Neves</i>	
Towards an Agent-Based Knowledge Management System	95
<i>Marwan Altawil, Asma Moubaidin, Nadim Obeid</i>	
An Approach to Auction-Based Web Server Admission Control	101
<i>Jolanta Wrzuszczak-Noga, Leszek Borzemski</i>	
Section 4: Robotics and Navigation	
Adaptive Fuzzy Rules Emulated Networks Controller for 7-DOF Robotic Arm with Time Varying Learning Rate	107
<i>C. Treesatayapun</i>	

**Belief Management for Autonomous Robots Using
History-Based Diagnosis** 113
Stephan Gspandl, Ingo Pill, Michael Reip, Gerald Steinbauer

**Enhancing Believability of Virtual Soccer Players: Application
of a BDI-Model with Emotions and Trust** 119
Tibor Bosse, Daniel Höhle

Author Index 129