Bogdan Gabrys, Bournemouth University, UK  
Kauko Leiviskä, University of Oulu, Finland  
Jens Strackeljan, Technical University Clausthal, Germany (Eds.)

Do Smart Adaptive Systems Exist?

2005 Approx. 400 p., Book  
(Studies in Fuzziness and Soft Computing, Preliminary entry 179)  
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This book is intended as a reference and a guide summarising and focusing on best practices when using intelligent techniques and building systems requiring a degree of adaptation and intelligence. It is therefore not intended as a collection of the most recent research results but a practical guide for experts from other areas and industrial users who are interested in building solutions to their problems using intelligent techniques. One of the main issues covered is an attempt to answer the question of how to select and/or combine suitable intelligent techniques from a large pool of potential solutions.

Another attractive feature of the book is that it brings together experts from neural network, fuzzy, machine learning, evolutionary and hybrid systems communities who will provide their views on how these different intelligent technologies have contributed and will contribute to creation of smart adaptive systems of the future.

An integration of these communities has been one of the main goals of the European Network of Excellence on Smart Adaptive Systems (EUNITE) within which the idea of compiling such a volume has originated. Over three years of various EUNITE activities focusing on issues of adaptation and intelligent behaviour of computing and engineering systems has also led to posing the question which is the title of this book: Do smart adaptive systems exist?

From the contents:
- Problem Definition - From Applications to Methods.  
- Data Preparation and Preprocessing.  
- Part I From Methods to Applications.  
- Artificial Neural Networks.  
- Machine Learning and Reinforcement Learning.  
- Fuzzy Expert Systems.  
- Evolving Connectionist Systems with Evolutionary Self-Optimisation.  
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- Consistent, User Adaptable Solution to Data Mining.  
- Adaptive Multimedia Retrieval. From Data to User Interaction.

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