Preface

The 9th International Workshop on Fuzzy Logic and Applications, WILF 2011, held in Trani (Italy), during August 29–31, 2011, covered topics related to theoretical and experimental areas of fuzzy sets and systems with emphasis on different applications.

This event represents the pursuance of an established tradition of biannual interdisciplinary meetings. The previous editions of WILF have been held, with an increasing number of participants, in Naples (1995), Bari (1997), Genoa (1999), Milan (2001), Naples (2003), Crema (2005), Camogli (2007), and Palermo (2009). Each event aimed to highlight connections and to stress synergies of fuzzy sets theory with soft computing and cognitive science, in order to reach a better understanding of both natural and artificial complex systems as well as computing systems, inspired by nature, which are able to solve complex problems. From this perspective, one of the main goals of the WILF workshops is to bring together researchers and developers from both academia and high-tech companies and foster multidisciplinary research.

WILF 2011 received more than 50 paper submissions from all over the world. A rigorous peer-review selection process was applied to ultimately select about 30 high-quality manuscripts to be published in this volume. In addition to regular papers, WILF 2011 included two tutorials:

- Francesco Marcelloni (University of Pisa, Italy), “Multi-Objective Evolutionary Fuzzy Systems”
- Javier Montero (Complutense University, Madrid, Spain), “Uncertainty and Ignorance in Decision Modelling”

There were also three keynote talks:

- Witold Pedrycz (University of Alberta, Edmonton, Canada), “From Fuzzy Models to Granular Fuzzy Models”
- Luis Magdalena (European Centre for Soft Computing, Mieres, Spain), “Some Open Questions in Fuzzy Rule-Based Systems Design”

Among them, the present volume includes contributions by Witold Pedrycz (University of Alberta, Canada) and Francesco Marcelloni (University of Pisa, Italy).

The success of this workshop is to be credited to the effort of many people, in particular to the Program Committee members for their commitment to providing high quality, constructive reviews, to the local Organizing Committee for the support in the organization of all the workshop events and to all the authors for their valuable presentations.
Finally, and mainly, we would like to express our deepest gratitude to Giovanna Castellano for her truly superb contributions to the organization of this very special workshop.

June 2011

Anna Maria Fanelli
Witold Pedrycz
Alfredo Petrosino
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Table of Contents

Advances in Theory of Fuzzy Sets

Solutions of Equation $I(x,y)=I(x,I(x,y))$ for Implications Derived from Uninorms ................................................................. 1
   *Sebastia Massanet and Joan Torrens*

On the Behavior of WOWA Operators ........................................ 9
   *Bonifacio Llamazares*

Measuring the Amount of Knowledge for Atanassov’s Intuitionistic Fuzzy Sets ............................................................. 17
   *Eulalia Szmidt, Janusz Kacprzyk, and Paweł Buchnowski*

Distributivity of Implication Operations over t-Representable T-Norms Generated from Nilpotent T-Norms .......................... 25
   *Michał Baczynski*

Cuts of IF-sets Respecting Fuzzy Connectives .......................... 33
   *Davide Martinetti, Vladimír Janiš, and Susana Montes*

Generation of Interval-Valued Fuzzy Implications from $K_\alpha$ Operators ............................................................ 41
   *Renata Hax Sander Reiser and Benjamin René Callejas Bedregal*

An Approach to General Quantification Using Representation by Levels .................................................................................. 50
   *Daniel Sánchez, Miguel Delgado, and María-Amparo Vila*

Towards Learning Fuzzy DL Inclusion Axioms .......................... 58
   *Francesca A. Lisi and Umberto Straccia*

A Rough Set Approach to Spatio-temporal Outlier Detection ......... 67
   *Alessia Albanese, Sankar K. Pal, and Alfredo Petrosino*

Advances in Fuzzy Systems

From Fuzzy Models to Granular Fuzzy Models ............................ 75
   *Witold Pedrycz*

Multi-objective Evolutionary Fuzzy Systems .............................. 83
   *Pietro Ducange and Francesco Marcelloni*

Interpretability, Interpolation and Rule Weights in Linguistic Fuzzy Modeling ........................................................................ 91
   *Andri Riid and Ennu Rüstern*
### A Double Axis Classification of Interpretability Measures for Linguistic Fuzzy Rule-Based Systems
*M.J. Gacto, R. Alcalá, and F. Herrera*

99

### Tagging Ontologies with Fuzzy WordNet Domains
*Angela Locoro*

107

### On the Notions of Residuated-based Coherence and Bilattice-Based Consistence
*Carlos V. Damásio, Nicolás Madrid, and M. Ojeda-Aciego*

115

### Investigation of Evolving Fuzzy Systems Methods FLEXFIS and eTS on Predicting Residential Prices
*Bogdan Trawiński, Krzysztof Trawiński, Edwin Lughofer, and Tadeusz Lasota*

123

### An Empirical Study on Interpretability Indexes through Multi-objective Evolutionary Algorithms
*R. Cannone, J.M. Alonso, and L. Magdalena*

131

### Team Performance Evaluation Using Fuzzy Logic
*Mauro Nunes and Henrique O’Neill*

139

### Interpretable Fuzzy Modeling for Decision Support in IgA Nephropathy
*Marco Lucarelli and Ciro Castiello*

147

### Experimental Comparative Study of Compilation-Based Inference in Bayesian and Possibilitic Networks
*Raouia Ayachi, Nahla Ben Amor, and Salem Benferhat*

155

## Advances in Classification and Clustering

### Tuning Graded Possibilistic Clustering by Visual Stability Analysis
*Stefano Rovetta, Francesco Masulli, and Tameem Adel*

164

### Granular Data Regression with Neural Networks
*Mario G.C.A. Cimino, Beatrice Lazzerini, Francesco Marcelloni, and Witold Pedrycz*

172

### A Fuzzy Declarative Approach for Classifying Unlabeled Short Texts Using Thesauri
*Francisco P. Romero, Pascual Julian-Iranzo, Andres Soto, Mateus Ferreira-Satler, and Juan Gallardo-Casero*

180

### Subtractive Initialization of Nonnegative Matrix Factorizations for Document Clustering
*Gabriella Casalino, Nicoletta Del Buono, and Corrado Mencar*

188
Asymmetric Kernel Scaling for Imbalanced Data Classification ........ 196
Antonio Maratea and Alfredo Petrosino

Advanced Applications

Improving Expert Meta-schedulers for Grid Computing through Weighted Rules Evolution ........................................ 204
R.P. Prado, J.E. Muñoz Expósito, and S. García-Galán

Generating Understandable and Accurate Fuzzy Rule-Based Systems in a Java Environment ........................................ 212
J.M. Alonso and L. Magdalena

Serendipitous Fuzzy Item Recommendation with ProfileMatcher ...... 220
Danilo Dell’Agnello, Anna Maria Fanelli, Corrado Mencar, and Massimo Minervini

Fuzzy Models for Fingerprint Description .............................. 228
Rosario Arjona, Andrés Gersnoviez, and Iluminada Baturone

A Fuzzy Set Approach for Shape-Based Image Annotation .......... 236
Giovanna Castellano, Anna Maria Fanelli, and Maria Alessandra Torsello

Stable Automatic Unsupervised Segmentation of Retinal Vessels Using Self-Organizing Maps and a Modified Fuzzy C-Means Clustering .... 244
Carmen Alina Lupaşcu and Domenico Tegolo

Cytoplasm Image Segmentation by Spatial Fuzzy Clustering ............ 253
Laura Caponetti, Giovanna Castellano, Vito Corsini, and Teresa M.A. Basile

A Memetic Island Model for Discrete Tomography Reconstruction ..... 261
Marco Cipolla, Giosuè Lo Bosco, Filippo Millonzi, and Cesare Valenti

An Intelligent Model for Self-compensation and Self-validation of Sensor Measurements ................................................. 269
Javier E. Reyes Sanchez, Marley M.B.R. Vellasco, and Ricardo Tanscheit

Author Index ........................................................................ 277