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Fuzzy Logic and Applications

12th International Workshop, WILF 2018
Genoa, Italy, September 6–7, 2018
Revised Selected Papers

Springer

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Preface

The 12th International Workshop on Fuzzy Logic and Applications, WILF 2018, held in Genoa, Italy during September 6–7, 2018, covered topics related to theoretical, experimental, and applied fuzzy techniques and systems with emphasis on fuzzy decision-making.

This event represents the pursuance of an established tradition of biannual interdisciplinary meetings. The previous editions of WILF have been held in Naples (1995), Bari (1997), Genoa (1999), Milan (2001), Naples (2003), Crema (2005), Camogli (2007), Palermo (2009), Trani (2011), Genoa (2013), and Naples (2016). Each event has focused on distinct main thematic areas of fuzzy logic and related applications. From this perspective, one of the main goals of the WILF workshops series is to bring together researchers and developers from both academia and high-tech companies and foster multidisciplinary research.

September 6, 2018, was the first anniversary of Lotfi A. Zadeh's death. On that day, WILF 2018 included a round table entitled "Zadeh and the Future of Fuzzy Logic" aimed at emphasizing what tools based on fuzzy sets and fuzzy logic are available today to address the technological challenges of today's society of big data and which others deserve to be further developed for this purpose.

After a rigorous peer-review process, we selected 16 high-quality manuscripts from the submissions received from all Europe. These were accepted for presentation at the conference and are published in this volume. In addition to regular papers, this volume comprises also a tutorial and the short abstracts of the contributions to the round table.

The success of this workshop is to be credited to the contribution of many people, in particular to the Program Committee members for their commitment to providing high-quality, constructive reviews, to the keynote speakers Antonio Di Nola (University of Salerno, Italy) and Jon Garibaldi (The University of Nottingham, UK), to the tutorial presenters Davide Ciucci (University of Milano-Bicocca, Italy) and Corrado Mencar (University of Bari, Italy), and to the local Organizing Committee for the support in the organization of the workshop events.

September 2018

Robert Fullér
Silvio Giove
Francesco Masulli

Organization

WILF 2018 was jointly organized by the DIBRIS, University of Genoa, Italy, the INNS, International Neural Network Society, SIG Italy, and the SIREN, Italian Neural Networks Society.

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