

# Preface

This research book provides the reader with a selection of high-quality texts dedicated to the recent advances, developments, and research trends in the area of feature selection for data and pattern recognition.

The book can be treated as a continuation of our previous multi-authored volume as below:

**Urszula Stańczyk, Lakhmi C. Jain (Eds.)**  
**Feature Selection for Data and Pattern Recognition**  
**Studies in Computational Intelligence vol. 584**  
**Springer-Verlag, Germany, 2015**

In particular, this second volume points to a number of advances topically subdivided into four parts:

- nature and representation of data;
- ranking and exploration of features;
- image, shape, motion, and audio detection and recognition;
- decision support systems.

The volume presents one introductory and 14 reviewed research papers, reflecting the work by 33 researchers from nine countries, namely Australia, Brazil, Canada, Germany, Hungary, Poland, Romania, Turkey, and USA.

Preparation and compilation of this monograph has been made possible by a number of people. Our warm thanks go to the commendable efforts of many institutions, teams, groups, and all individuals who have supported their laudable work. We wish to express our sincere gratitude to the contributing authors and all

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