

Preface

Aggregation functions are usually defined as those functions that are monotonic and that satisfy some boundary conditions. In particular settings, these conditions are relaxed. Aggregation functions are used for data fusion and decision-making. Examples of these functions include means, t-norms and t-conorms, uninorms and nullnorms, copulas and fuzzy integrals (e.g. the Choquet and Sugeno integrals). Besides the aggregation of real inputs, aggregation functions on general/particular lattices are also considered.

This volume collects the final revised manuscripts of 26 accepted contributions of participants to the 9th International Summer School on Aggregation Functions that took place in Skövde (Sweden) on 19–22 June 2017. Note that AGOP conferences are biannually organized by the working group AGOP of the EUSFLAT association, and it is the ninth in a series of AGOP summer schools, including AGOP 2001 (Oviedo, Spain), AGOP 2003 (Alcalá de Henares, Spain), AGOP 2005 (Lugano, Switzerland), AGOP 2007 (Gent, Belgium), AGOP 2009 (Palma de Mallorca, Spain), AGOP 2011 (Benevento, Italy), AGOP 2013 (Pamplona, Spain) and AGOP 2015 (Katowice, Poland). The volume also includes the abstracts of the invited talks and tutorials given in the School. All included contributions were reviewed by PC members and several external reviewers, and they include works from theory and fundamentals of aggregation functions to their use in applications. Together, they provide a good overview of recent trends in research on aggregation functions.

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