

# Lecture Notes in Networks and Systems

Volume 362

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Editors

11th International Conference  
on Theory and Application  
of Soft Computing,  
Computing with Words  
and Perceptions and Artificial  
Intelligence - ICSCCW-2021

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# Preface

The 11th International Conference on Theory and Applications Soft Computing, Computing with Words and Perceptions and Artificial Intelligence (ICSCCW-2021) is the premier international conference organized by Azerbaijan Association of “Zadeh’s Legacy and Artificial Intelligence” (Azerbaijan), Azerbaijan State Oil and Industry University (Azerbaijan), University of Siegen (Siegen, Germany), BISC-Berkeley Initiative in Soft Computing (USA), University of Texas (San Antonio (USA), Georgia State University (Atlanta, USA), University of Alberta (Canada), University of Toronto (Toronto, Canada), System Research Institute of Polish Academy of Sciences, Near East University (North Cyprus).

This volume presents the proceedings of the 11th International Conference on Theory and Applications Soft Computing, Computing with Words and Perceptions and Artificial Intelligence, ICSCCW-2021 held in Antalya, Turkey, on August 23–24, 2021. It includes contributions from diverse areas of soft computing and computing with words such as uncertain computation, decision making under imperfect information, neuro-fuzzy approaches, deep learning, natural language processing, and others. The topics of the papers include theory and application of soft computing, information granulation, computing with words, computing with perceptions, image processing with soft computing, probabilistic reasoning, intelligent control, machine learning, fuzzy logic in data analytics and data mining, evolutionary computing, chaotic systems, soft computing in business, economics, earth sciences, engineering, material sciences, biomedical engineering and health care.

The volume covers new ideas from theories of soft computing and computing with words and their applications in economics, business, industry, education, medicine, earth sciences, and other fields. This volume will be a useful guide for academics, practitioners, and graduates in fields of soft computing and computing

with words. It will allow for increasing of interest in development and applying of these paradigms in various real-life fields.

August 2021

Rafik Aliev  
Chairman of ICSCCW-2021

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