

# Contents

Henryk Krawczyk and Paweł Lubomski <i>Multidisciplinary Open System Transferring Knowledge for R&amp;B Development</i> . . . . .	299
Alicja Kwaśniewska, Anna Giczevska and Jacek Rumiański <i>Big Data Significance in Remote Medical Diagnostics Based on Deep Learning Techniques</i> . . . . .	309
Michał Lewczuk, Paweł Cichocki and Józef Woźniak <i>Database and BigData Processing System for Analysis of AIS Messages in the netBaltic Research Project</i> . . . . .	321
Anna Wałek and Paweł Lubomski <i>The Bridge to Knowledge – Open Access to Scientific Research Results on Multidisciplinary Open System Transferring Knowledge Platform</i> . . . . .	333
Henryk Krawczyk and Andrew Targowski <i>Information Society Development Trends, from Data through Knowledge to Wisdom</i> . . . . .	343
Lukasz Wiszniewski and Dariusz Klimowicz <i>Open extensive IoT research and measurement infrastructure for remote collection and automatic analysis of environmental data</i> . . . . .	355
Jerzy Proficz and Krzysztof Drypczewski <i>Processing of Satellite Data in the Cloud</i> . . . . .	365
Marcin Krystek, Cezary Mazurek, Raul Palma, Juliusz Pukacki and Jose Manuel Gomez-Perez <i>Research Object as mechanism for ensuring research experiment reproducibility within Virtual Research Environment</i> . . . . .	379
Dalia Chrzanowska, Rafał Niemiec and Zdzisław Hippe <i>Research on Melanocytic Skin Lesion Infobase Enlargement – New Facts and Concepts</i> . . . . .	391
Piotr Orzechowski <i>Complementary oriented allocation algorithm for cloud computing</i> . . . . .	395
Zofia Kasprzak, Mariusz Polarczyk and Krzysztof Gmerek <i>Quantitative and qualitative development of natural and agricultural science resources in the AGRO database (2009–2016)</i> . . . . .	405
Dorota Grygoruk <i>Open Access to Research Data on Forest Ecosystems in Poland</i> . . . . .	415
Jamil Abdulhamid Mohammed Saif and Piotr Sumionka <i>Scalability Evaluation of MATLAB Routines for Parallel Image Processing Environment</i> . . . . .	423