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Volume 1237

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ISSN 2194-5357 ISSN 2194-5365 (electronic)
Advances in Intelligent Systems and Computing
ISBN 978-3-030-53035-8 ISBN 978-3-030-53036-5 (eBook)
https://doi.org/10.1007/978-3-030-53036-5

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Preface

Research on Intelligent Distributed Systems has matured during the last decade, and many effective applications are now deployed. Nowadays, technologies such as Internet of Things (IoT), Industrial Internet of Things (IIoT), Big Data, Blockchain, distributed computing, in general, are changing constantly as a result of the large research and technical effort being undertaken in both universities and businesses. Most computing systems from personal laptops to edge/fog/cloud computing systems are available for parallel and distributed computing. Distributed computing performs an increasingly important role in modern signal/data processing, information fusion, and electronics engineering (e.g. electronic commerce, mobile communications and wireless devices). Particularly, applying artificial intelligence in distributed environments is becoming an element of high added value and economic potential.

The 17th International Symposium on Distributed Computing and Artificial Intelligence 2020 (DCAI 2020) is a forum to present applications of innovative techniques for solving complex problems in these areas. The exchange of ideas between scientists and technicians from both academic and business areas is essential to facilitate the development of systems that meet the demands of today's society. The technology transfer in this field is still a challenge, and for that reason, this type of contributions will be specially considered in this symposium. This conference is the forum in which to present application of innovative techniques to complex problems. This year's technical programme will present both high quality and diversity, with contributions in well-established and evolving areas of research. Specifically, 83 papers were submitted to main track and special sessions, by authors from 26 different countries (Algeria, Angola, Brazil, Bulgaria, China, Colombia, Croatia, Denmark, Ecuador, France, Greece, India, Iran, Italy, Japan, Mexico, Nigeria, Perú, Poland, Portugal, Russia, Saudi Arabia, Spain, Taiwan, Tunisia, Venezuela), representing a truly "wide area network" of research activity. The DCAI'20 technical programme has selected 35 papers and, as in past editions, it will be special issues in ranked journals such as Information Fusion, Neurocomputing, Electronics, IEEE Open Journal of the Communications, Smart Cities, ADCAIJ. These special issues will cover extended versions of the most

highly regarded works. Moreover, DCAI'20 Special Sessions have been a very useful tool in order to complement the regular programme with new or emerging topics of particular interest to the participating community.

This symposium is organized by the University of L'Aquila (Italy). We would like to thank all the contributing authors, the members of the Programme Committee, the sponsors (IBM, Armundia Group, EurAI, AEPIA, APPIA, CINI, OIT, UGR, HU, SCU, USAL, AIR Institute and UNIVAQ) and the Organizing Committee of the University of Salamanca for their hard and highly valuable work; and the funding supporting of the project "Intelligent and sustainable mobility supported by multi-agent systems and edge computing (InEDGEMobility): Towards Sustainable Intelligent Mobility: Blockchain-based framework for IoT Security", Reference: RTI2018-095390-B-C32, financed by the Spanish Ministry of Science, Innovation and Universities (MCIU), the State Research Agency (AEI) and the European Regional Development Fund (FEDER), and finally, the Local Organization members and the Programme Committee members for their hard work, which was essential for the success of DCAI'20.

June 2020

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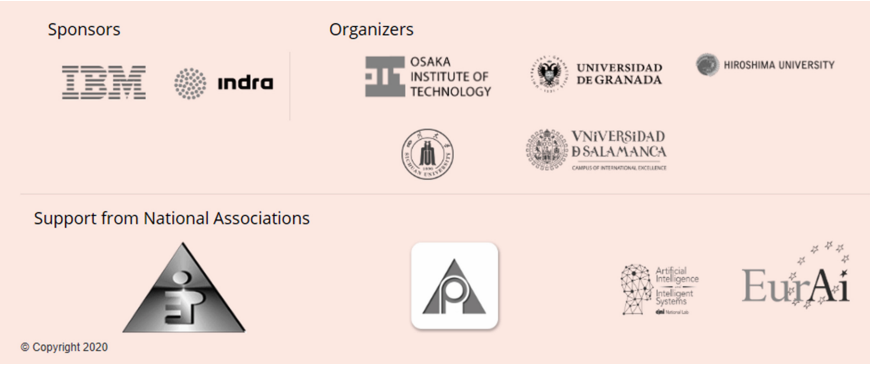

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