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FOREWORD

This book contains the proceedings of the 4th International Conference on Internet of Things, Big Data and Security (IoTBDS 2019) which was organized and sponsored by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC). The conference was technically co-sponsored by IEEE Systems, Man and Cybernetics Society - TC on Big Data Computing and held in cooperation with EuroCloud, the National Portuguese ICT Cluster (TICE.PT) and DNS.PT.

We hope that these proceedings, which include areas like "Big Data Research", "Emerging Services and Analytics", "Internet of Things (IoT) Fundamentals", "Internet of Things (IoT) Applications". "Big Data for Multi-discipline Services", "Security, Privacy and Trust" and "IoT Technologies", are interesting to a global audience of engineers, scientists and business people interested in the research topics of IoTBDS.

We believe the proceedings published demonstrate new and innovative solutions, and highlight challenging technical problems in each field.

IoTBDS received **X** paper submissions from **Y** countries. To evaluate each submission, a double blind paper review was performed by the Program Committee, whose members are highly qualified researchers in IoTBDS topic areas. Based on the classifications provided, **Z** papers were selected as full papers.

The conference was complemented with a shared special session entitled Inter-Disciplinary Research - IDR (chaired by Victor Chang, Robert Walters, Víctor Méndez Muñoz, Patricia Baudier, Ruijun Bu and Roger Hallman).

We are proud to inform you that the program included also three plenary keynote lectures, given by internationally distinguished researchers, namely – Francisco Herrera (University of Granada, Spain), Bonghee Hong (Pusan National University, Korea, Republic of) and Eleni Karatza (Aristotle University of Thessaloniki, Greece).

These talks contribute to increase the overall quality of the conference and to provide a deeper understanding of the conference interest fields.

The number and high quality of the papers received imposed difficult choices in the review process. Each paper was reviewed by at least, two reviewers. Based on those reviews, papers that adequately balanced quality, originality and relevance to the conference themes were selected.

The proceedings of IoTBDS will be submitted for indexation by DBLP, Thomson Reuters Conference Proceedings Citation Index, EI, Scopus, Semantic Scholar and Google Scholar. A short

list of papers presented at the conference will be selected for publication of extended and revised versions in a special issue of Springer's Computing Journal (IF = 1.654), Expert Systems (IF = 1.43), and the International Journal on Multi-Sensor (IF = 6.639). All presented papers will be available at the SCITEPRESS digital library.

To recognize the best submissions and the best student contributions, awards based on the best combined marks of paper reviewing, as assessed by the Program Committee, and the quality of the presentation, as evaluated by the chairs at the conference venue, were conferred at the closing session of the conference.

As a final point, we would like to express our thanks, first of all, to the authors of the technical papers, whose work and dedication made possible to put together a program that we believe is very exciting and of high technical quality. Next, we would like to thank all the members of the program committee and auxiliary reviewers, who helped us with their expertise and time. We would also like to thank the invited speakers for their invaluable contribution and for sharing their vision in their talks. Special thanks should be addressed to the INSTICC Steering Committee whose invaluable work made this event possible and finally, a word of appreciation for the hard work of the secretariat: organizing a conference of this level is a task that can only be achieved by the collaborative effort of a dedicated and highly capable team.

Conference Chair

Victor Chang, Xi'an Jiaotong-Liverpool University, China

Program Co-Chairs

Muthu Ramachandran, Leeds Beckett University, United Kingdom

Robert Walters, University of Southampton, United Kingdom

Gary Wills, University of Southampton, United Kingdom

Víctor Méndez Muñoz, IUL, S.A. & Universitat Autònoma de Barcelona, UAB, Spain