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Big Data and Security

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Preface

This volume contains the papers from the Second International Conference on Big Data and Security (ICBDS 2020). The event was held at Curtin University, Singapore, and was organized by the Nanjing Institute of Technology, Oulu University, King Saud University, Curtin University, JiangSu Computer Society, Nanjing University of Posts and Telecommunications, and IEEE Broadcast Technology Society.

The International Conference on Big Data and Security brings experts and researchers together from all over the world to discuss the current status of, and potential ways to address, security and privacy regarding the use of Big Data systems. Big Data systems are complex and heterogeneous; due to their extraordinary scale and the integration of different technologies, new security and privacy issues are introduced that must be properly addressed. The ongoing digitalization of the business world is putting companies and users at risk of cyber-attacks more than ever before. Big Data analysis has the potential to offer protection against these attacks. Participation in the conference workshops on specific topics is expected to achieve progress by facilitating global networking along with the transfer and exchange of ideas.

The papers presented at ICBDS 2020 coming from researchers who work in universities and research institutions gave us the opportunity to achieve a good level of understanding of the mutual needs, requirements, and technical means available in this field of research. The topics included in this second edition of the conference covered fields connected to Big Data, Security in Blockchain, IoT Security, Security in Cloud and Fog Computing, Artificial Intelligence/Machine Learning Security, Cybersecurity, and Privacy. We received 153 submissions and accepted 52 papers. All the accepted papers were peer reviewed by three qualified reviewers chosen from our Technical Program Committee based on their qualifications and experience.

The proceedings editors wish to thank the dedicated committee members and all the other reviewers for their efforts and contributions. We also thank Springer for their trust and for publishing the proceedings of ICBDS 2020.

March 2021

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