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Big Data and Security

Third International Conference, ICBDS 2021 Shenzhen, China, November 26–28, 2021 Proceedings

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Preface

This volume contains the papers from the Third International Conference on Big Data and Security (ICBDS 2021). The event was held at the Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, and was organized by the Nanjing Institute of Technology, the Shenzhen Institute of Advanced Technology, King Saud University, the Jiangsu Computer Society, and the IEEE Broadcast Technology Society.

The International Conference on Big Data and Security (ICBDS) brings experts and researchers together from all over the world to discuss the current status 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 and 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 conference workshops on specific topics is expected to achieve progress through global networking and the transfer and exchange of ideas.

The papers submitted to ICBDS 2021 came from researchers who work in universities and research institutions, giving 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 the second edition of this event included big data, security in blockchain, IoT security, security in cloud and fog computing, artificial intelligence/machine learning security, cybersecurity, and privacy. We received 221 submissions and accepted 59 papers. All the accepted papers were peer reviewed by three qualified reviewers chosen from our Technical Program Committee (TPC) based on their qualifications and experience.

The proceedings editors wish to thank the dedicated TPC 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 2021.

January 2022

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