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# Application of Big Data, Blockchain, and Internet of Things for Education Informatization

Second EAI International Conference, BigIoT-EDU 2022  
Virtual Event, July 29–31, 2022  
Proceedings, Part I

Part 1



# Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering

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Second EAI International Conference, BigIoT-EDU 2022  
Virtual Event, July 29–31, 2022  
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# Preface

We are delighted to introduce the proceedings of the second edition of the European Alliance for Innovation (EAI) International Conference on Application of Big Data, Blockchain, and Internet of Things for Education Informatization (BigIoT-EDU 2022). BigIoT-EDU aims to provide a platform for international cooperation and exchange, enabling big data and information education experts, scholars, and enterprise developers to share research results, discuss existing problems and challenges, and explore cutting-edge science and technology. The conference focuses on research fields such as big data and information education. The use of artificial intelligence (AI), blockchain, and network security lies at the heart of this conference as we focus on these emerging technologies to excel the progress of Big Data and information education.

BigIoT-EDU has three tracks: the Main Track, the Late Track, and a Workshop Track. BigIoT-EDU 2022 attracted over 700 submissions, and Each submission was reviewed by at least Three Program Committee members in a double blind process, resulting in the acceptance of only 205 papers across all three tracks. The workshop was titled “International Workshop on IoT-enabled Big Data Analytics using Machine Learning for Smart Societies” and co-chaired by Muhammad Babar and Mian Muhammad Aimal from Allama Iqbal Open University Islamabad, Pakistan, and the Virtual University Lahore, Pakistan, respectively. The workshop aimed to focus on advanced techniques and algorithms to excel big data analytics and machine learning for advancement of smart societies.

Coordination with the steering chair, Imrich Chlamtac, was essential for the success of the conference. We sincerely appreciate his constant support and guidance. It was also a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference. In particular, we are grateful to the Technical Program Committee, who completed the peer-review process for the technical papers and helped to put together a high-quality technical program. We are also grateful to Conference Manager Martin Vojtek for his constant support along with the whole of the EAI team involved in the conference. We must say that they have been wonderful and it is always a pleasant experience to work with them. Also, we would like to thank all the authors who submitted their papers to the BigIoT-EDU 2022 conference.

We strongly believe that the BigIoT-EDU conference provides a good forum for all researchers, developers, and practitioners to discuss all science and technology aspects that are relevant to big data and information education. We also expect that the future

BigIoT-EDU conferences will be as successful and stimulating as this year's, as indicated by the contributions presented in this volume.

Mian Ahmad Jan  
Fazlullah Khan  
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