Call for papers

Edge Computing, Cloud Computing, and Big Data Symposium (ECB)

IEEE ICNC 2023

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http://www.conf-icnc.org/2023

Symposium Co-chairs

Paolo Bellavista, Università di Bologna, Italy (paolo.bellavista@unibo.it)
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Scope

With recent advances in edge/cloud computing and storage, we are entering a new era when large scale distributed computation and analysis of big datasets become feasible. The synergy between edge and cloud computing will enable reliable, scalable, and performant services to be easily created and deployed. This will also have a profound effect not only in the field of computer science, but also in all areas of science, engineering, industry, medicine, and other application fields, which can benefit from large-scale machine learning and big-data analysis. The Edge Computing, Cloud Computing, and Big Data (ECB) Symposium solicits high-quality original research papers in all aspects of edge Computing, cloud computing, and big data related to improvements in edge and cloud computing platforms and services as well as applications utilizing such platforms. Topics of interests include but are not limited to:

- Datacenter and edge/cloud networking
- Edge/Cloud storage
- Edge/Cloud resource management and virtualization
- Edge/Cloud applications
- Mobile edge/cloud Computing
- High-performance edge/cloud computing
- Edge/Cloud and cluster computing platforms and systems
- Large-scale graph processing systems
- Green edge/cloud computing and datacenter energy optimizations
- GPU and FPGA edge/cloud computing and processing
- Internet of Things (IoT) with edge/cloud support
- Edge/Cloud services – Infrastructure/Platform/Software/Function as a Service (IaaS, PaaS, SaaS, FaaS)
- Security and privacy in the edge and the cloud
- Scalability and interoperability of edge/cloud infrastructures
- Interactive big-data analytics
- Big data management and analysis
- Intelligence in the edge and the cloud
- Large-scale machine learning and statistical analysis approaches in the edge and the cloud
- Blockchain in the edge and the cloud

Submission Guidelines

Perspective authors should follow the instructions at http://www.conf-icnc.org/2023/author.htm to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at http://www.conf-icnc.org/2023/cfp.htm.

Short Biographies of Co-Chairs

Paolo Bellavista

Paolo Bellavista received MSc and PhD degrees in computer science engineering from the University of Bologna, Italy, where he is a full professor of distributed and mobile systems. His research activities span from pervasive wireless computing to online big data processing under quality constraints, from edge cloud computing to middleware for Industry 4.0 applications, from ultra-low latency control in the cloud continuum to digital twins for urban and industrial environments. He has published more than 300 papers, with around 120 of them on the major international journals in the above fields; he serves on several Editorial Boards, including IEEE COMST (Associate EiC), ACM CSUR, ACM TIOT, and Elsevier JNCA and PMC. He is the scientific coordinator of the H2020 BigData project IoTwins – https://www.iotwins.eu/.

Xiliang Luo

Xiliang Luo received the B.Sc. degree in physics from Peking University, Beijing, China, in 2001, and the M.Sc. and Ph.D. degrees in electrical engineering from the University of Minnesota, Minneapolis, MN, USA, in 2003 and 2006, respectively. After finishing his Ph.D. studies, he joined Qualcomm Research and was involved in the system designs, analyses, and standardization of 4G LTE. He was the designer of various enhancements to Qualcomm's LTE solutions and led the designs of heterogeneous networks from initial concepts to successful modem development. Since 2014, he has been with the School of Information Science and Technology, ShanghaiTech University, Shanghai, China. He has (co)authored over 100 research papers in top journals and conferences. He is the (co)inventor of over 70 US and international patents and majority of those have been adopted into current 4G and 5G wireless communication standards. His general research interests include signal processing, communications, and machine learning. Particularly, he is interested in research combining information theory and machine learning theory that can shape and guide the designs of next generation data and information processing networks. In 2017, he received the Excellent Paper Award from the IEEE ICUFN.

Jelena Misic

Jelena Mišić is a Professor in the Department of Computer Science at Ryerson University, Canada. She received her PhD in Computer Engineering from University of Belgrade, Serbia, in 1993. She is an internationally recognized expert in the area of IoT, blockchain, wireless networking and network security, where she has authored or co-authored four books, 160+ journal papers, 24 book chapters, and 220+ conference papers. She has chaired more than a dozen major international events and guest-edited more than a dozen special issues of various journals. She serves on the editorial boards of IEEE Transactions on Vehicular Technology, IEEE Internet of Things Journal, IEEE Transactions on Emerging Topics in Computing, IEEE Network, ACM Computing Surveys and Ad Hoc Networks journal (published by Elsevier). She is IEEE Fellow, ACM member and serves as IEEE VTS distinguished lecturer.