Call for Papers

Next Generation Networks and Internet Applications Symposium (NGNI)

IEEE ICNC 2024

Big Island, Hawaii, USA, Feb 19-22, 2024

http://www.conf-icnc.org/2024

Symposium Co-Chairs

Paolo Bellavista, University of Bologna, Italy (paolo.bellavista@unibo.it)

Yulei Wu, University of Exeter, U.K. (y.l.wu@ieee.org)

Scope

The Next Generation Networks and Internet Applications Symposium (NGNI) focuses on topics related to aspects of agile future networking infrastructures and the applications supported by these new technologies. Of special interest are papers reporting on novel and practical solutions to timely and compelling problems in the Internet design space. To ensure complete coverage of the advances in network designs and Internet applications, this symposium presents original contributions in, but not limited to, the following topical areas:

- Architectures, Frameworks, and Toolkits for Next Generation Networks
- Internet Applications including Interactive Media, Voice, Video, and Games
- Database, Data Mining, and Big Data Applications
- Best Practices, Open Testbeds, and Living Labs
- Peer-to-Peer Computing
- Grid, Cluster, Distributed, Edge, and Fog Computing Solutions
- Cloud Network Services
- Quality of Service (QoS) / Quality of Experience (QoE)
- End-to-End Performance Measurement
- Admission Control and Adaptive Quality Management
- Routing: Unicast, Multicast, Anycast, Multi-Path
- End-to-End Network Programming
- Network Digital Twins
- Software Defined Networking and Virtualized Network Functions
- Network Slicing and Quality Management in 5G/6G NGNI
- Resilience and Sustainability of Next Generation Networks
- Network Visualization, Virtual Private Networks and Services
- Content Distribution Networks and Content-Centric Networking Services
- Web and Mobile Applications
- Application Case Studies
- Impact of Wireless on the Internet
- Internet of Things Services and Applications
- NGNI Applications for Industry 4.0 and Smart Cities

Submission Guidelines

Perspective authors should follow the instructions at http://www.conf-icnc.org/2024/author.htm to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at http://www.conf-icnc.org/2024/cfp.htm.

Short Biographies of Co-Chairs

Paolo Bellavista is a Full Professor of mobile and distributed systems at the University of Bologna, Italy. His primary research interests include middleware for mobile computing, digital twins for Industry4.0 and smart city applications, QoS management in the cloud continuum, infrastructures for big data processing in industrial environments, and performance optimization in wide-scale and latency-sensitive deployment scenarios. He serves on the Editorial Boards of IEEE COMST, IEEE TNSM, IEEE TSC, ACM CSUR, ACM TIOT, and Elsevier PMC. Additional details and the full publication list can be found at: https://www.unibo.it/sitoweb/paolo.bellavista/en

Yulei Wu is a Senior Lecturer with the Department of Computer Science, Faculty of Environment, Science and Economy, University of Exeter, UK. His main research interests include digital twins, networks, connected systems, and edge intelligence. He serves as an Associate Editor of TNSM and TNSE, as well as an Editorial Board Member of Computer Networks, Future Generation Computer Systems, and Nature Scientific Reports at Nature Portfolio. More details can be found at: https://ylwu-home.github.io