Call for Papers: Special Issue on xG impact on Information Technology & Systems

IT Professional seeks submissions to this upcoming special issue.

https://www.computer.org/digital-library/magazine/it/cfp-info-tech-systems

Submissions Due: 25 November 2022

Publication: May/June 2023

Call for papers

ITpro seeks original and novel contributions describing research, cross-domain experimentation and practical case studies on the current and future directions of xG networks. 5G networks are becoming mainstream in the cellular and wireless communications domain requiring rigorous and wide-ranging study of their impact on Information Technologies and Systems. 5G and beyond (xG) is more than simply increase in speed and connecting more devices. xG heralds an era of far- and wide-ranging services, applications and systems that changes business, society and the government. For example, the low latency of xG networks opens up opportunities for data-intense AI applications to be deployed on IoT devices with potential for new business models and customer satisfaction. The need to explore the various impacts of xG networks is of immense contemporary interest. This special issue aims to explore the theory as well as the practice of the impact of 5G, 6G and beyond on IT and Systems. The intersection of xG with Cloud architectures, Network architectures, Convergence, Data science and analytics, Cybersecurity, Business Process optimization, and User experience are topics of interest. Furthermore, the architecture, design and deployment of xG systems that would enable configuration, optimization and recovery are also of interest. The discussions in this special issue should throw fresh lights on expanding network coverage, reducing latency and providing enhanced security. This special issue aspires to advance the body of knowledge on xG networks and their industrial applicability.

SUGGESTED TOPICS (not limited to)

- Direction of xG network Generations
- xG and impact on Cloud architectures (cloud native, metaverse)
- Changes in Information Systems development, deployment and operations due to xG
- How xG is impacting and impacted by Cybersecurity
- xG and challenges to Data Science and Artificial Intelligence
- Access network modifications due to xG
- xG and service reliability
- xG and network convergence.
- Business Process Optimization due to advances in xG
- Computing in xG Communications Networks
- Open Source xG projects

Submission guidelines

Please only submit previously unpublished, original, state-of-the-art research that is not currently under review by a conference or another journal. Extended versions of conference papers must be at least 30 percent different from the original conference

works. For author guidelines, see our peer review page. All manuscripts must be submitted to ScholarOne Manuscripts (https://mc.manuscriptcentral.com/itpro-cs) by the deadline in order to be considered. Submissions are subject to peer review on both technical merit and relevance to IT Pro's readership. Articles should be understandable by a broad audience of computer science and engineering professionals, avoiding unnecessary theory, mathematics, jargon, or abstract concepts. Figures and tables should be placed in the appropriate location within the template, ideally in files that are 300 dpi or higher using the dimensions defined in the document template. For author information and guidelines on submission criteria, please visit IT Professional's Author Information page.

Questions?

Please direct any correspondence before submission to the guest editors at it3-2023@computer.org.

GUEST EDITORS

Bhuvan Unhelkar (University of South Florida) Tim Weil (SecurityFeeds) Jason Rupe (CableLabs) Reza Djavanshir (Johns Hopkins University)