

EDITOR'S UPDATES — MARCH 2022

Welcome to the March 2022 edition of the *IEEE Communications Standards Magazine*. This edition features one Special Issue and two Series Topics. The former is on “Evolution of 5G NR MIMO Standards” with four articles published, while the latter are on “Ultra-Low Latency and Reliable Communications for Future Wireless Networks” and “Vehicular Networking,” with four and two articles incorporated, respectively. All 10 papers are introduced by their Editor teams in separate editorials.

Furthermore, two articles are also included that were accepted from our Open Call, covering topics in 5G and 6G, respectively. Specifically, the first article is “Inter-Slice Mobility Management in 5G: Motivations, Standard Principles, Challenges, and Research Directions.” The article is contributed from academia and addresses mobility management in a 5G system. It aims to achieve seamless inter-slice mobility within the current Third Generation Partnership Project (3GPP) network slicing framework.

The second article is a joint work from academia and industry with the title “Context-Aware Security for 6G Wireless: The Role of Physical Layer Security.” After discussing the potential security challenges in 6G, it provides a road map and three building blocks for 6G security: quality of security, context awareness with artificial intelligence, and adaptive security controls.

Apart from the peer-reviewed articles, a few invited articles are included in the Commentary columns and the Standards News column. The IEEE Commentary article, “Every Rule Has a Story ...,” is contributed by James E Matthews III, the President of IEEE Standards Association (SA). It elaborates the rules around the making of standards, which ensure standards are technically sound, impartial, and for the benefit of humanity.

The Industry Commentary article, “6GHz Spectrum Needs for Wi-Fi 7,” is written by seasoned researchers and standardization leaders in the industry. It introduces typical applications and



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deployment scenarios of Wi-Fi 7 and provides performance results and analysis as well. In the end, it highlights the needs of sufficient spectrum allocation in order to realize the benefits promised by Wi-Fi 7.

In addition, three short articles are presented in the Standards News column, updating the progress in the following standards development organizations (SDOs):

- European Telecommunications Standards Institute (ETSI) Industry Specification Group (ISG): re-configurable intelligent surface (RIS)
- Internet Engineering Task Force (IETF): IP wireless access in vehicular environments (IPWAVE)
- International Telecommunication Union — Telecommunication Standardization Sector (ITU-T) SG15: digital subscriber line (DSL)

I would like to thank all the authors for submitting their papers to *IEEE Communications Standards Magazine* and the peer reviewers for reviewing the manuscripts. Jennifer Porcello and Christina Keller on the communications Society staff have been limitless in their support of this publication. Glenn Parsons, the Founding Editor-in-Chief, has helped handle the IEEE Commentary Column, and Carlos Cordeiro, the Associate Editor-in-Chief, has pulled together articles for both the Industry Commentary Column and the News Column.

BIOGRAPHY

ZANDER LEI (lei.zhongding@huawei.com) is a senior researcher at Shield Lab, Huawei Singapore Research Center. He has been working on 5G security for 3GPP networks since 2016. Prior to joining Huawei, he had been a Lab Head and senior scientist with the Agency for Science, Technology, and Research (A-STAR) of Singapore, doing research and participating in standardization activities on/for various aspects in wireless systems and networks. He was the Associate Editor-in-Chief of *IEEE Communications Standards Magazine* from 2017 to 2019, the Chair/co-Chair and Chief Editor for the Task Forces developing Singapore Standards on IoT and ITS respectively, from 2014 to 2018, the Vice Chair of IEEE 802.11ah Task Group from 2014 to 2016, and PHY Technical Editor of the IEEE 802.22 Working Group from 2006.

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SUBMISSIONS: The magazine welcomes tutorial or survey articles that span the breadth of communications. Submissions will normally be approximately 4500 words, with few mathematical formulas, accompanied by up to six figures and/or tables, with up to ten carefully selected references. Electronic submissions are preferred and should be submitted through Manuscript Central: <http://mc.manuscriptcentral.com/mcomstd>. Submission instructions can be found at the following: <http://www.comsoc.org/publications/magazines/ieee-communications-standards-magazine/paper-submission-guidelines>. All submissions will be peer reviewed.