





## **CALL FOR ARTICLES**

## IEEE Vehicular Technology Magazine IEEE Future Networks Initiative, Sixth Special Issue on 5G Technologies and Applications

2020 marks the starting year for fifth-generation (5G) network deployment. However, it's still a long way before we have a fully operational network that meets the predefined KPIs for sliced services and multigigabits downloading speeds. Also, the mechanisms for the efficient selection of service-based architectures have not yet evolved to adopt the new concepts of logic networking and dynamic network slicing. There is also a need to continue developing spectrum extensions techniques for new radio (NR), multi-connectivity schemes, orchestrated operations driven by network function virtualization (NFV) and software-defined networking (SDN), etc.

In considering a technology road-map for development, IEEE Future Networks is sponsoring this series of special issues to publish new papers on state-of-the-art research that convey new concepts and results in a tutorial style. Selected papers will mark milestones in 5G findings and trails in view of end-to-end system features. Authors are invited to submit original manuscripts on topics including, but not limited to:

Physical layer developments in 5G Resource allocations for ultra-dense networks Interoperability between licensed and unlicensed bands Dense small cell deployments for edge device connectivity Time alignment for dual- and multi-transmission Millimeter wave band and massive MIMO Network slicing and topology managements Service type analysis: uRLLC, eMBB, mIoT C-RAN and network function virtualization 5G core network and service -based architecture Network hierarchy and mobile edge computing Software defined networking Distributed mobility management and network intelligence Network stability, control and optimization Integration of various services and tools Data centers and load provisioning Vertical application of 5G: smart grid, V2X, etc. Performance evaluation of testbeds and trials Internet of Things (IoT) and support for massive connectivity Innovative applications and services facilities by 5G



Manuscripts should follow the IEEE VTM guidelines at <a href="http://www.ieeevtc.org/vtmagazine/submission.php">http://www.ieeevtc.org/vtmagazine/submission.php</a>

Submit PDF version of complete manuscripts to http://mc.manuscriptcentral.com/vtm-ieee

## **Important Dates**

Standardization activities by IEEE, 3GPP and ETSI

Visions for Beyond 5G technologies

Initial Submissions by:
First Round Reviews by:
Second Round Submissions by:
Second Round Reviews by:
Publication:

1 September 2019
2 December 2019
15 January 2020
28 February 2020
June 2020

## **Guest Editors**

Anwer Al-Dulaimi anwer.al-dulaimi@exfo.com EXFO, Canada

Rose Hu

rose.hu@usu.edu Utah State University, USA