



CALL FOR ARTICLES

IEEE Vehicular Technology Magazine IEEE 5G Initiatives Special Issue on 5G Technologies and Applications



The fifth-generation (5G) networks continue to emerge through evolved technologies that support massive users connectivity and multigigabits downloading speeds. The 5G is a service-based network that requires efficient selection of sliced architectures considering connected end-user and requested standard slice type. The key advances over previous generations include spectrum extensions using new radio (NR) technologies, multi-interface access, orchestrated operations driven by network function virtualization (NFV) and software-defined networking (SDN), etc.

Those technical evolutions will improve the resource availability and system scalability in response to dynamic changes in traffic. Considering a technology road-map for development, IEEE 5G Initiative is sponsoring this series of special issues to publish new papers on the state-of-the-art research material that convey new concepts and results in tutorial style. The selected papers will mark the milestones for 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	Software defined networking
Resource allocations for ultra-dense networks	Distributed mobility management and network intelligence
Interoperability between licensed and unlicensed bands	Network stability, control and optimization
Dense small cell deployments for edge device connectivity	Integration of various services and tools
Time alignment for dual- and multi-transmission	Data centers and load provisioning
Millimeter wave band and massive MIMO	Vertical application of 5G: smart grid, V2X, etc.
Network slicing and topology managements	Performance evaluation of testbeds and trials
Service type analysis: uRLLC, eMBB, mMTC	Internet of Things (IoT) and support for massive connectivity
C-RAN and network function virtualization	Innovative applications and services facilities by 5G
5G core network and service -based architecture	Visions for Beyond 5G technologies
Network hierarchy and mobile edge computing	Standardization activities by IEEE, 3GPP and ETSI

Authors should submit their manuscripts following the IEEE VTM guidelines at <http://www.ieeevtc.org/vtmagazine/submission.php>

Authors should submit a PDF version of their complete manuscripts to <http://mc.manuscriptcentral.com/vtm-ieee>

Important Dates

Submission Deadline: **15 October 2018**
First Revisions/Reject Notice: **15 December 2018**
Acceptance Notice: **15 February 2019**
Final Manuscript Due: **1 March 2019**
Publication: **June 2019**

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