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Call for Papers

Emerging Technologies in Analogue and RF Integrated Circuits and Systems Enabling 5/6G Communication

Submission deadline: Tuesday, 30 July 2024

Expected Publication Month: October 2024

Since its renaissance, the 5G technologies deliver tremendous new and advanced electronic products and tools to the public and industries. It must attribute to the invention, optimization, and designs of various advanced Analogue and RF integrated circuits and systems, both from academia, industry, and government. 6G follows the footsteps of 5G. Recently, the 5/6G millimetre-wave (mmW) and terahertz (THz) frequency bands are developing rapidly, facing the demand for ultra-high capacity and transmission rate of 5/6G networks in near future. It becomes essential to continuously dig into the Analogue and RF integrated circuits for the dedicated mmW and THz systems.

This special issue aims to bring together recent advances on Analogue and RF integrated circuits and systems in the 5/6G networks. It welcomes original and innovative perspectives on theories, methodologies, circuits, and systems related to 5/6G Analogue and RF integrated circuits and systems, from academia, industry, and government.

Topics for this call for papers include but not restricted to:

- Baseband Analogue ICs for 5/6G.
- Power electronics ICs for 5/6G.
- RF/mmW/THz front-end circuits, including power amplifiers, low noise amplifiers, oscillators, frequency multipliers, up/down frequency converters, on-chip antennas, passive devices, transceiver chips, array systems, etc.
- New technology trends and developments of Analogue and RF integrated circuits and systems for 5/6G systems.
- RF Energy Harvesting and Wireless Power Transfer for the next generation of 5/6G communications and IoT Devices.

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