MOCAST

INTERNATIONAL CONFERENCE ON MODERN CIRCUITS AND SYSTEMS TECHNOLOGIES

- **11-13 June 2025**
- **Dresden University of Technology (TUD), Dresden, Germany**
- **https://tud.de/ing/mocast2025**

Special Session Announcement:
ADVANCED TECHNOLOGIES, SYSTEMS, AND APPLICATIONS FOR EXPANDING WIRELESS COMMUNICATIONS HORIZONS

CAS | IEEE | DFG Deutsche Forschungsgemeinschaft | TECHNISCHE UNIVERSITÄT DRESDEN | ARISTOTLE UNIVERSITY OF THESSALONIKI | SECAI | CMC Chua Memristor Center

The 14th International Conference on Modern Circuits and Systems Technologies (MOCAST) aims to bring together leading academic and industrial scientists and researchers to exchange and share their knowledge and experiences about all aspects of Circuits and Systems.

Session Description:
This special session aims to serve as a bridge from the current advancements in wireless communications to the next evolutionary stages, highlighting cutting-edge technologies that promise to reshape and broaden the scope of this fast-evolving domain. As we navigate the shift from the established 5G framework to the emerging potentials of 6G and beyond, diverse and complex challenges and opportunities that arise need to be addressed. Topics could include (but not limited to) enhancing connectivity, scaling system capacities, reducing latency, and incorporating revolutionary technologies such as artificial intelligence and machine learning, and advanced network architectures. Five years into the global rollout of 5G, varying levels of adoption have been observed across different countries, revealing that the full capabilities of 5G are still being realized. This unfolding scenario has also sparked discussions regarding electromagnetic radiation, highlighting the need for ongoing monitoring as the technology continues to expand.

The session will foster discussions that merge theoretical research with practical outcomes, aiming to translate these insights into tangible advancements that enhance the robustness, efficiency, and sustainability of future wireless communication systems, thereby expanding the horizons of wireless communication technologies, systems, and applications.

List of Topics (but not limited to):

- **Machine Learning and AI for Communications**
- **Green Communications and Networks**
- **Airborne and Maritime Mobile Systems and Services**
- **IoT, M2M, Sensor Networks, and Ad-Hoc Networking**
- **Multiple Antennas and Cooperative Communications**
- **Spectrum Management, Radio Access Technology**
- **Measurements - field trials for wireless systems and networks**
- **Electromagnetic Radiation issues**

MOCAST is Technically Sponsored by IEEE. All accepted papers are expected to be included in IEEE Xplore and will be indexed by EI.
Authors of selected accepted papers will be invited to submit extended version of their paper to the MOCAST Special Issue at **Advanced Electronic Materials**.

10 YEARS ADVANCED ELECTRONIC MATERIALS Open Access

Special Session Organizers:
George Tsoulos, University of Peloponnese, Greece
Sotirios K. Goudos, Aristotle Univ. of Thessaloniki, Greece

Important Dates:

17.03.2025	17.03.2025	17.04.2025	24.04.2025	24.04.2025	11.-13.06.2025
Deadline for Regular Paper Submission	**Deadline for Special Session Paper Submission**	Acceptance Notification for Papers	Camera-ready Submission for all Papers	Early Bird Registration deadline	MOCAST 2025 conference in Dresden