

COMCAS 2019 continues the tradition of providing an international, multidisciplinary forum for the exchange of ideas, research results, and industry experience in the areas of microwave/RF/mm-wave engineering, communications, antennas, solid state circuits, electronic devices, engineering in medicine, radar, sonar and electronic systems.

The technical program includes invited talks by international experts and contributed papers and will be complemented by a large industrial exhibition.

Important Deadlines

Summary Submission:
May 1, 2019

Acceptance Notification:
July 2, 2019

Full Paper Submission:
September 2, 2019

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Papers are solicited in a wide range of topics:

Communications and Sensors

5G systems & millimeter wave propagation
Cognitive Radio & Spectral Sharing
Communications Security
First Responder/Military Communications
Green Communication
Internet of Things
Long Range Low Power Networks
Micro/Pico/Femtocell Devices and Systems
MIMO Antenna Systems for Communications
Modulation & Signal Processing Technologies
On-Body and Short Range Communications
Radio over Fiber & Optical/Wireless Convergence
Sensor Networks and Technologies
Software-Defined Radio & Multiple Access
Space-Time Coding and Systems

Antennas, Propagation, and Scattering

Antenna Theory, Design and Measurements
Smart Antennas, Beamforming and MIMO
Wave Propagation and Channel Modeling
Wave Scattering and RCS
NanoEM, Plasmonics and Applications
Metamaterials, FSS and EBG
EM Field Theory and Numerical Techniques
EM Interference & Compatibility, SI
Spectrum Management and Monitoring
ELF, RF, μ Wave, mmW and THz Measurements

Signal Processing (SP) and Imaging

Microwave Imaging and Tomography
Acoustic/Sonar Imaging and Techniques
Radar SP and Imaging, SAR, ATR
MIMO SP for Radar
Ground and Foliage Penetration Systems
Signal Acquisition and Sensor Management
DF, Emitter Location, Elint, Array Processing
Target Detection, Identification and Tracking
Data Fusion
Time Domain and UWB SP

RF/MW Devices and Circuits, RFICs

Solid-State Devices, RFICs
 μ Wave, mmW and Sub-mmW Circuits/Technologies
Nano and THz Devices/Technologies
Microwave Photonics
Passive Components and Circuits
Filters and Multiplexers
Ferroelectrics, RF MEMS, MOEMS, and NEMS
Active Devices and Circuits
RF Power Amplifiers and Devices
Tunable and Reconfigurable Circuits/Systems
Analog/Digital/Mixed RF Circuits
Circuit Theory, Modeling and Applications
Interconnects, Packaging and MCM
CAD Techniques for Devices and Circuits
Emerging Technologies
Thermal Management for Devices

Microwave Systems, Radar, Acoustics

Aeronautical and Space Applications
RFID Devices/Systems/Applications
Automotive/Transportation Radar & Communications
Environmentally Sensitive ("Green") Design
UWB and Multispectral Technologies & Systems
Emerging System Architectures
Modelling Techniques for RF Systems
Radar Techniques, Systems and Applications
Sonar Systems and Applications
Wireless Power Transfer & Energy Harvesting
Terahertz Systems

Biomedical Engineering

Novel Imaging Technologies
Novel Therapeutic Modalities
Acousto-Optic Technologies
Advances in MRI, Systems and Applications
Medical RF, MW & MMW Applications and Devices
Medical Imaging and Image Processing
The effects of RF and MW on Biological Tissues

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All submitted papers will be peer reviewed. Accepted papers will be published in the COMCAS 2019 Proceedings, which will be submitted for inclusion to IEEE Xplore®.

For author's instructions and further information, see www.comcas.org.