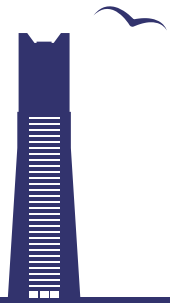




2022 Asia-Pacific Microwave Conference

APMC 2022

Nov.29- Dec.2, 2022 / Yokohama, Japan



First Call for Papers

The 2022 Asia-Pacific Microwave Conference (APMC 2022) will be held in Yokohama, Japan, on Nov. 29 - Dec. 2, 2022.

Microwave exhibition will be held at the same venue. The steering committee is monitoring the COVID-19 situation and will consider hybrid or online format if required.

APMC 2022 will provide a broad forum for participants from both academia and industries to exchange information, share research results, and discuss collaborations in the fields of microwave, millimeter wave, terahertz wave, and even to the far infrared and optical waves.

Prospective authors are invited to submit original papers on their latest research results. Papers presented at the conference will be submitted for inclusion into IEEE Xplore. Proposals for workshops, short courses and special/focused sessions are also solicited.

Important Dates

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- Proposal Deadline **Apr. 8, 2022**
(Workshops/Short Courses/Special and Focused Sessions)
 - Paper Submission Deadline **June 17, 2022**
 - Notification of Acceptance **Aug. 31, 2022**
 - Final Manuscript Submission Deadline **Sept. 21, 2022**
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CONFERENCE TOPICS

Active Devices and Circuits

Low-noise devices and circuits / high-power devices and circuits / wide band-gap devices / microwave tubes / control circuits (mixers, oscillators, switches, etc.) / MMICs / RFICs / millimeter-wave and THz integrated circuits / graphene devices / rectennas, and others.

Passive Components

Passive components and circuits (couplers, hybrids, and dividers/combiners) / planar and non-planar resonators, filters, and multiplexers / waveguides and transmission lines / ferrite, SAW, RF MEMS components / LTCC devices / packaging and manufacturing techniques / metamaterials / plasmonic and optical components / nanomaterials, and others.

Field Analysis, Simulation and Characterization Techniques

EM field theory / analytical methods and numerical techniques / CAD and optimization algorithms / modeling and simulation techniques for multiphysics / interaction of EM waves with materials and tissues / measurement techniques and systems from RF to THz / EMC, and others.

Antennas and Propagation

Antenna theory and design / microwave and millimeter-wave antennas / sub-THz, THz, and optical antennas / broadband and multi-band antennas / small antennas / array antennas / active, adaptive, reconfigurable, and smart antennas / MIMO antennas / digital beamforming and multi-beam systems / scattering and propagation / channel characterization / antenna measurements, and others.

Systems and Applications

Microwave and millimeter-wave systems / sub-THz and THz systems / MIMO systems / sensing and IoT/M2M/RFID systems / near-field communication systems / microwave photonic components and systems / radar and imaging systems / software defined, cognitive, and smart radio systems / satellite communication systems / wearable devices and systems / mobility systems, and others.

Emerging Technologies and Applications

5G, Beyond 5G, and 6G systems / artificial intelligence (AI) and machine learning (ML) in microwaves / wireless power transfer devices and systems / energy harvesting devices and systems / microwave superconductivity and quantum technologies / microwave biological and medical applications / health monitoring systems / microwave heating and chemistry applications, and others.



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APMC Prize and APMC Student Prize

Papers presented at APMC 2022 will be judged by the APMC 2022 Prize Award Committee, and the authors of selected papers will be awarded the APMC 2022 Prize for outstanding contributions to the microwave field. Outstanding student papers presented at APMC 2022 will be awarded the APMC 2022 Student Prize.

Student Design Competitions

All eligible students or student teams are invited to consider taking part in the Student Design Competitions (SDCs). The details will be announced in the APMC 2022 website.

Registration Fee Support Program for Speakers

See the updates at APMC 2022 website.

IEICE Transactions on Electronics Special Issue

Authors of all papers submitted to APMC 2022 (but not limited to APMC 2022) can submit an updated version of their papers to IEICE Transactions on Electronics "Special Section on Microwave and Millimeter-Wave Technologies," which will be published in November 2023. The paper submission deadline is Nov. 14, 2022.

<https://www.apmc2022.org/>



This conference is organized and sponsored by the Institute of Electronics, Information and Communication Engineers (IEICE) of Japan, and will be technically co-sponsored by IEEE MTT-S, IEEE AP-S, EuMA, URSI, IEEE MTT-S Japan/Kansai/Nagoya Chapters, IEICE Technical Committee on Microwaves, IEICE Technical Committee on Electronics Simulation Technology, IEICE Technical Committee on Microwave Photonics, Japan Institute of Electronics Packaging, Japan Society of Electromagnetic Wave Energy Applications, and IEEEJ Investigative Committee on Innovative Technologies for Advanced Applications of Electromagnetic-waves.

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