



**2021 IEEE MTT-S
International Microwave Symposium**
6 - 11 June 2021, Georgia World Congress Center, Atlanta, Georgia



CALL FOR PROPOSALS WORKSHOPS

The IEEE Microwave Theory and Techniques Society's (MTT-S) 2021 International Microwave Symposium (IMS2021, www.ims-ieee.org) will be held 6-11 June 2021 at the Georgia World Congress Center, Atlanta, GA, USA. IMS2021 is the centerpiece of the Microwave Week 2021, which also includes the RFIC Symposium (www.rfic-ieee.org) and the ARFTG Conference (www.arftg.org), and offers technical sessions, interactive forums, plenary and panel sessions, workshops, technical lectures, application seminars, and industrial and historical exhibits. In addition, a wide variety of other technical and social networking activities including guest programs are offered at IMS2021.

New this year: IMS2021 will be a hybrid conference – both face-to-face and virtual. More details will be reported soon.

The workshops, offered at IMS2021, provide a unique forum for the exchange of ideas and technical information, and are distinct from regular conference oral presentations. Workshop proposals should focus on topics of high interest to the MTT-S community and should encompass a coherent theme that is presented by selected experts in the field. Material presented in workshops should represent the state-of-the art in their respective technical areas. Submission of workshop proposals with topics and lineup of speakers that overlap with recent IMS or RFIC workshops is discouraged. The IMS2021 Workshops Committee welcomes proposals from domain experts that meet the following criteria and are endorsed by the MTT-S Technical Committees (TCs), RFIC, and/or ARFTG.

Multiple experts are encouraged to collaborate in planning the workshop and the workshop proposal. The workshop should start with a 15 to 20-minute introduction to the topic and presenters. The introduction should be followed by several 40 to 45-minute talks, by technical experts, that are educational and informative by delving deep into the workshop topic. A panel discussion of 30 to 45-minute duration may also be planned at the end of each workshop to debate various points of view and to wrap up the workshop. Workshops should be structured and moderated by the organizers such that the audience is actively engaged and, where appropriate, include tutorial or review materials to assist the attendees who may not have current knowledge of the subject.

The workshop notes, specific to the attendee's registration, are distributed electronically. The workshop organizers should ensure that their speaker's final presentation material match the distributed notes.

IMS2021 workshops will be held either in hybrid or in virtual mode. Therefore, in addition to speaker notes, recorded video of the workshop talks will be made available to registrants.



, www.ims-ieee.org





Workshops are solicited from all technical areas within MTT-S, including but not limited to:

- 5G and beyond 5G wireless components, circuits and systems
- Massive MIMO antennas and systems
- Spectrum sensing, sharing and collaboration: circuits, systems, and algorithms
- AI/Machine learning applications in RF-to-THz communication and sensing systems
- Applications of RF-to-THz technology in sensing, imaging and localization
- Physical layer security for communications and sensing systems
- Satellite communications (LEO, MEO, GEO)
- Beamforming architectures
- Phased-array design and calibration
- Reconfigurable/multi-band/multi-channel integrated front-ends for soft-ware defined radios and arrays
- Automotive radars and sensors, applications in autonomous vehicles and drones
- Wireless power transfer and power harvesting
- Power amplifier technology (GaN, high efficiency, nonlinearity, linearization)
- Power amplifiers in silicon technologies
- MMW/THz circuits, systems and applications
- Advanced radio architectures and systems
- RFIC circuit technology and applications (CMOS, BiCMOS, SiGe, SOI)
- Tunable and reconfigurable circuits
- Microwave/millimeter-wave frequency synthesizers and mixed signal circuits
- Reliability and radiation-hard analysis and design for space applications
- Packaging, interconnects, 3-D chip packaging, heterogeneous integration and MCMs
- Flexible/wearable electronics
- Design of filters and passive structures
- Materials and metamaterials
- Acoustic devices, control materials, ferroelectrics, ferrites, multiferroics, phase change materials, RF MEMS
- Microwave photonics components (sources, detectors, equalizers, retimers 100 to 400 Gbps) and systems
- Medical and biological applications
- Quantum information science applications
- Earth sensing microwave systems

IMS2021 Workshop Days:

- Sunday, 6 June 2021
- Monday, 7 June 2021
- Friday, 11 June 2021

(Initial) Proposal Submission: If interested in submitting a proposal for a workshop, please review the updated instructions, sample templates, and other proposal details posted at ims-ieee.org. All proposal submissions must be made electronically at the workshop and short course submission website (ims-ieee.org). IMS2021 Workshop Committee will not accept or review proposals that are sent directly to the IMS2021 steering committee members. The (initial) proposal submission deadline is 5:00 PM HST (UTC – 10:00) on Monday, **28 September 2020**.

Please note the following additional information should be submitted with the initial proposal.

- Organizers should provide their contact information, title of the workshop, an abstract (500-words maximum), preferred duration (full-day, half-day), list of potential speakers and their contact information,



and details of MTT-S TCs, RFIC, or ARFTG endorsements. Confirmations with the speakers would strengthen the proposal and be viewed favorably.

- The endorsement of at least one MTT-S TC, RFIC, or ARFTG is required prior to the proposal submission. It is highly recommended that organizers seek the relevant TC's endorsement weeks before the proposal submission deadline. Endorsements from more than one TCs or conferences would also strengthen the proposal.
- Organizers should ensure that the speakers in their proposed workshop do not present the same or similar topic at more than one IMS2021 workshop, RFIC workshop, and/or ARFTG workshop.
- The MTT Technical Committee chairs and vice-chairs, and their contact information, can be found at: <https://www.mtt.org/technical-committee-listing/>

(Initial) Proposal Disposition: Decisions and notifications of accepted proposals will be completed by Saturday, 14 November 2020. Organizers will be notified by email of acceptance of proposal (accepted “as is” or recommended for combining with another proposal) and the approved duration (full-day or half-day).

(Final) Summary Submission: The “accepted” proposal’s final summary submission deadline is 5:00 PM HST (UTC – 10:00) on Monday, 21 December 2020. The summary shall include the abstract (500 words maximum) and the **confirmed** speakers’ contact information, affiliations, and presentation titles. Late submissions are not accepted.

Speaker Notes and Presentation Video Submission: The workshop speaker notes and recorded presentation video submission deadline is 5:00 PM HST (UTC – 10:00) on Wednesday, **5 May 2021**. Speakers are required to upload the electronic (one slide per page) version of the notes at the workshop and technical lecture notes submission website.

- The speaker presentations and notes are required to be fully compliant with the IMS2021 workshop presentation template. There are no exceptions to this requirement.
- The presented material, on the day of the workshop, should be identical to the notes that are submitted on 5 May 2021. In the event, the presentation slides are modified after the 5 May 2021 deadline, the speaker is responsible for uploading the updated slides for distribution to the attendees at the workshop.
- Workshop organizers are responsible for the verification of the speaker notes’ compliance with the IMS2021 presentation template. This is in addition to their responsibilities for uploading the workshop or technical lecture agenda; list of speakers, their biographical information, and contact information.
- IMS2021 Workshop organizers are also responsible for the verification of the speaker presentation videos’ compliance with the IMS2021 speaker presentation guidelines. **Further details on workshop presentation videos will be provided to the selected workshop organizers.**
- Registration fee waivers for workshops will be given to the organizers (maximum two), and to those speakers who submit notes and presentation videos by the 5 May 2021 and in the correct format. Fee waivers will not be granted to those who submit the required materials past the deadlines.

IMS2021 Workshops Committee: Kaushik Sengupta and Glenn Hopkins