



International Microwave Symposium

21 – 26 June 2020

Los Angeles, California



CALL FOR PROPOSALS WORKSHOPS

The IEEE Microwave Theory and Techniques Society's (MTT-S) 2020 International Microwave Symposium (IMS2020, www.ims-ieee.org) will be held 21–26 June 2020 at the Los Angeles Convention and Exhibition Center, Los Angeles, MA, USA. IMS2020 is the centerpiece of the Microwave Week 2020, 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, short courses, 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 IMS2020.

The workshops, offered at IMS2020, 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 topical 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 overlapping with recent IMS or RFIC workshops is discouraged. The IMS2020 Workshops Committee welcomes, from domain experts, proposals 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 workshop. 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 organizer 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.



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

- 5G wireless systems and components
- Massive MIMO antenna systems and components
- Advanced radio architectures and systems
- Radios for personal connectivity and security
- Satellite communications (LEO, MEO, GEO)
- Phased-arrays design and calibration
- Automotive radars and sensors. Applications in autonomous vehicles and drones
- Wireless power transfer and power harvesting
- Power amplifier technology (GaN, high efficiency, nonlinear modeling, linearization techniques)
- Power amplifiers in silicon technologies
- THz and MMW circuits, systems and applications
- RFIC circuit technology and applications (CMOS, BiCMOS, SiGe, SOI)
- Artificial intelligence and machine learning applied to microwave systems
- 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 methods for filters and passive structures
- Materials and metamaterials
- Acoustic devices, control materials, ferroelectrics, ferrites, multiferroics, phase change materials, RF MEMS
- Microwave photonics (sources, detectors, equalizers, retimers 100 to 400 Gbps)
- Medical and biological applications
- Quantum information science applications
- Earth sensing microwave systems

IMS2020 Workshop Days:

- Sunday, 21 June 2020
- Monday, 22 June 2020
- Friday, 26 June 2020

(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). IMS2020 Workshop Committee will not accept or review proposals that are sent directly to the IMS2020 steering committee members. The (initial) proposal submission deadline is 5:00 PM MDT (UTC – 6:00) on Wednesday, 25 September 2019.

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.
- 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 strengthen the proposal and be viewed favorably.
- Organizers should ensure that the speakers in their proposed workshop do not present the same or similar topic with a set of similar notes at more than one IMS2020 workshop.



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- 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 Friday, 1 November 2019. 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 MDT (UTC – 6:00) on Saturday, 14 December 2019. The summary shall include the abstract (500 words maximum) and the **confirmed** speakers contact information, affiliation, and presentation title. Late submissions are not accepted.

Speaker Notes Submission: The workshop speaker notes submission deadline is 5:00 PM MDT (UTC – 6:00) on Wednesday, 13 May 2020. Speakers are required to upload both, the electronic (one slide per page) and the print (2 slides per page) versions of the notes at the workshop and short course notes submission website.

- The speaker presentations and notes are required to be fully compliant with the IMS2020 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 13 May 2020. In the event, the presentation slides are modified after the 13 May 2020 deadline, the speaker is responsible for bringing copies of 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 IMS2020 presentation template. This is in addition to their responsibilities for uploading the workshop or short course agenda; list of speakers, their biographical information, and contact information.
- Registration fee waivers for workshops will be given to the organizers (maximum two), and to those speakers who submit notes by the 13 May 2020 and in the correct format. Fee waivers will not be granted to those who submit the required materials past the deadlines.

IMS2020 Workshops Committee: Y. Ethan Wang, Payam Heydari, Jeremy Dunworth

Contact Information:

Please submit suggestions or questions (not proposals) to ims2020workshops@gmail.com

