The International Applied Computational Electromagnetics Society Symposium serves as a forum for developers, analysts, and users of computational techniques applied to electromagnetic field problems for all frequency ranges. The symposium includes technical invited plenary and regular presentations, software tutorials, vendor booths, and short courses.

The Symposium will be held a few meters away from the seashore at the Hilton Miami Downtown Hotel, Florida, USA. The conference dates are 14-18 April 2019. Papers may address general issues in applied computational electromagnetics or focus on specific applications, techniques, codes, or computational issues of potential interest to ACES members through invited and contributed papers. Distinguished researchers will be invited to deliver keynote speeches on technology trends and significant advances in relevant topics. The following is a list of suggested topics, although contributions in other areas of applied computational electromagnetics will also be considered.

**Topics**

The primary topics of the conference are:

**Computational Methods:**
- Integral Equations/Differential Equations
- Hybrid and Multi-Physics Computations
- Low Frequency/Asymptotic and High Frequency
- Time Domain/Frequency Domain
- Parallel and GPU Computations and Optimization Techniques

**EM Modeling and Applications**
- Small Antennas; Wideband and Multiband Antennas; Terahertz Antennas; Antenna Arrays;
- Dielectric Resonator Antennas; Printed and Conformal Antennas; RFID antennas/systems;
- Space and Satellite Antennas; Antennas with Advanced/Complex/Artificial Materials and Processes;
- Bio-Electromagnetics; Wearable Antennas; Implantable Antennas; Body channel modeling;
- Radio Propagation Modeling, Channel Estimation and Communication Systems;
- EMC; Wireless Power and RF Energy Harvesting; Near-field Techniques; EMC
- Engineering Metamaterials and Phasmonics for Absorption, Cloaking, and Wave Manipulation;
- Microwave Measurement Techniques; Material Microwave Property Characterization;
- Nanotechnology; Textile Electronics; Carbon nanotubes and 2D Graphene Electronic and Optoelectronic Devices;
- Wide Bandgap/Emerging Semiconductor Electronic Devices;
- Passive/Active Microwave and Terahertz Devices; MEMS and MMICs;
- Large-area Printing, Inkjet Printing and 3D Printing Technologies;
- Low-temperature Co-fired Ceramics and Liquid Crystal Polymers for Microwave Devices;
- Microwave Remote Sensing; SAR Algorithms and Systems; Inverse Scattering; Radar Techniques.

**Optimization and Design**
- Sensitivity Analysis; Deterministic and Stochastic Methods; Neural Networks;
- Artificial Intelligence and Expert Systems.

**Devices and Applications**
- Electric Machines and Drives; Nondestructive Testing; Induction Heating;
- Wide Bandgap Devices; Power Electronic Devices; Flexible Power Electronics
- Microsystems; Biomedical Applications; Charged Particles Trajectories; Accelerators;
- Electromagnetic Launchers; Fusion Machines; Electromagnetic Compatibility.

**Electronic Paper Submission**

Prospective authors are invited to submit manuscripts in electronic (PDF) format only. All papers must be written in English and limited to two pages including text, references, and figures. Submitted papers should strictly follow the two-page conference paper template available on the ACES 2019 website. Only one accepted paper can be associated with one full conference registration. Additional papers presented by the same authors can be registered at an extra fee ($100 per paper). Papers submitted will be peer reviewed and all papers presented at the conference will be included in IEEE Xplore pending quality review and further indexed by Engineering Index (EI).

**Best Paper Awards**

Awards for Best Paper(s) and Best Student Paper(s) will be presented to the winners at the conference. The Awards Committee will judge the papers primarily on originality, significance, technical soundness, presentation, and reviewers’ reports. To qualify for the Best Student Paper, the author must be a student who presents, as the first author, the paper at the conference. Students who wish to participate in this competition should upload their papers directly to the designated “Student Paper Competition” upload option.

**Important Dates:**
- Paper Submission Deadline: October 30, 2018
- Notification of Acceptance: December 31, 2018
- Final paper Submission: February 4, 2019

**Exhibitions:**

Exhibition of company products is solicited for areas related to the conference topics. Interested parties should contact the Conference Secretariat.
Miami Beaches
Virginia Keys Seaquarium
Miami Downtown

Downtown Miami skyline as seen from the Port of Miami.

Conference Hotel – Hilton Miami Downtown

The ACES negotiated hotel rate is $189 and it is available 3 days before and after the conference official dates, but rooms are limited. So early reservation is preferred.