



# CALL FOR PAPERS

The IEEE EMC Society is seeking original, unpublished papers covering all technologies that are affected by EMC, Signal & Power Integrity

Join us **IN-PERSON** in Phoenix (AZ). Share your insight, ask questions, learn from the experts/innovators and see new products at the 2024 IEEE International Symposium on Electromagnetic Compatibility, Signal & Power Integrity. Your published paper will be seen by thousands in the EMC community and across the wide array of disciplines that look to the IEEE EMC Society for technical guidance. In addition, it will be uploaded to IEEE Xplore® with the exposure and recognition that brings.

## THE COMMITTEE PROPOSES SPECIAL TOPIC AREAS:

**EMI/EMC Issues for Transportation Electrification, Semiconductor and Chip EMC, Packaging, Autonomous Vehicles, Charging and Wireless Charging, Intentional EMI and Cybersecurity, Applications of AI/ML to EMC and SIPI Problems.**

**Special Sessions** are unique dedicated sessions which can be created by working with the Technical Committee. If interested, you should discuss this with one of the Technical Committees to act as the sponsor.

**Abstract-Reviewed Papers** are ways an author can share their work in addition to Traditional Papers. This allows Authors to present their work without the burden of writing a full manuscript. Abstract-Reviewed Papers require an extended abstract.

**Workshops & Tutorials** are an option for authors covering a fundamental topic, a complex project, or a large dataset. Presentation proposals are submitted instead of a journal paper

**Experiments & Demonstrations** are for contributors who prefer to share their work as live experiments or demonstrations.

## TOPICS OF INTEREST

- TC-1: EMC Management-** Personal & Laboratory Accreditation, EMC Education & Awareness, Legal Issues
- TC-2: EMC Measurements-** Techniques, Test Instrumentation & Facilities, Standards & Regulations, Measurement Uncertainty
- TC-3: EMC Environment-** Signal Environment, Atmospheric & Manmade Noise, Characterization
- TC-4: EM Interference Control-** Shielding, Gaskets, Cables, Connectors, Grounding & PCB Layout
- TC-5: High Power Electromagnetics-** ESD & Transients, EMP, IEMI & Lightning, Geomagnetic Storm EMC
- TC-6: Spectrum Engineering-** Characterization and Modeling, Design, Adaptive Interference Mitigation
- TC-7: Low Frequency EMC-** Power EMC, Conducted Emission, Transportation & Electrical Vehicles, Grid
- TC-8: Aeronautics and Space EMC-** Aircraft, Atmospheric Environment, Drones, Spacecraft, Missiles
- TC-9: Computational Electromagnetics-** Modeling & Simulation, Multi-Physics Techniques, Tools, and Applications
- TC-10: Signal and Power Integrity-** Interconnects, Modeling & Characterization, Crosstalk, Jitter, Noise
- TC-11: Nanotechnology & Advanced Materials-** Nanomaterials & Nanostructures, Smart Materials
- TC-12: EMC Wireless Technologies-** EMC Planning/Testing/ Specifications, Wireless Coexistence
- SC-1: Smart Grid EMC-** Renewable Generation, Grid Communications
- SC-3: Machine Learning and Artificial Intelligence in EMC and SIPI-** Renewable Generation, Grid Communications
- SC-5: Power Electronics EMC-** Power Conversion, Automotive, Aerospace, Medical, Consumer Electronics

## KEY DATES

- DECEMBER 13, 2023:**  
Proposal for Special Sessions Submittal Deadline
- JANUARY 8, 2024:**  
Traditional and Special Session Paper Submission Deadline
- FEBRUARY 19, 2024:**  
Notification of Acceptance/Rejection for Traditional and Special Session Papers
- MARCH 4, 2024:**  
Abstract-Reviewed Papers, Workshops & Tutorial, Experiments & Demonstrations Proposals Submission Deadline
- MARCH 18, 2024:**  
Revised Traditional and Special Session Paper Submission Deadline
- APRIL 12, 2024:**  
Notification of Acceptance/Rejection for Workshops & Tutorials, Experiments & Demonstrations
- APRIL 19, 2024:**  
Notification of Acceptance/Rejection for Traditional, Abstract-Reviewed and Special Session Papers
- MAY 15, 2024:**  
Final Paper, Workshop & Tutorial Submission Deadline

[www.emc2024.org](http://www.emc2024.org)

#IEEE\_ESP24     



## GUIDELINES FOR AUTHORS & SESSION ORGANIZERS

### TRADITIONAL PAPERS

A preliminary manuscript (4 – 6 pages), including all relevant results and conclusions.

### ABSTRACT-REVIEWED PAPERS

An extended abstract (one page), including relevant results and conclusions.

### SPECIAL SESSIONS

A proposal that includes:

- Title of Special Session
- Abstract detailing the content of the session
- Statement of what makes the session special
- List of planned authors and paper subjects with titles, if available
- Primary and secondary audience

### WORKSHOPS & TUTORIALS

A proposal that includes:

- Title of Workshop or Tutorial
- Format: Workshop or Tutorial
- Abstract describing the workshop/tutorial, including objectives, content, and novelty
- List of planned presenters and affiliations with topics/titles
- Primary and secondary Audience

### EXPERIMENTS & DEMONSTRATIONS

A proposal that includes:

- Title of Experiment or Demonstration
- Abstract describing the experiment or demonstration with sufficient detail for the chairs to review
- List of presenters and affiliations
- A detailed listing of any test equipment required

EMC Society policy is that commercialism shall be prohibited in all workshops and technical sessions. This applies to the written paper or notes as well as any presentation format.

All paper and proposal submissions will be uploaded into the Review System using the link provided on the symposium website ([www.emc2024.org](http://www.emc2024.org)) beginning November 1, 2023. During the electronic submission process, a unique author code is created for tracking purposes. Failure to comply with submission requirements may result in rejection.

Presentations (30 minutes total) for Traditional, Special and Abstract-Reviewed Papers will be a 25-minute LIVE presentation in-person followed by a short question and answer period. Authors might also choose to deliver their presentation via poster in the poster session. Times will vary for Workshops and Tutorials based upon the number of presentations in any given session. Further details will be communicated to authors in due course.

### CRITERIA FOR PAPER ACCEPTANCE

- **Importance of Topic:** Does it have direct significance to the EMC, Signal and Power Integrity community?
- **Technical Sophistication and Depth:** Does it present information that is a significant contribution, advancement, application, or refinement of the state of the art? Does it expose the reader to a higher knowledge level than currently available from other sources? Is it clear that the work has been substantially completed or is the submission an interim progress report on a long-term project?
- **Readability, Clarity, and Presentation:** Is the value of the submission clearly defined? Is the material written in clear and concise English with topics presented in an organized and logical manner?
- **Novelty and Originality:** Does it propose a new, unique, and unpublished concept or expand on an existing premise from a unique point of view? Does it present new information on an EMC, Signal or Power Integrity issue that is still in the developmental stage? Note: Authors should only submit original work that has neither appeared elsewhere for publication, nor which is under review for another publication. If authors have used their own previously published work(s) as a basis for a new submission, they are required to cite the previous work(s) and very briefly indicate how the new submission offers substantive novel contributions beyond those of the previously published work(s). (PSPB 8.2.1.B.11)

## STUDENT CONTESTS

### STUDENT PAPER CONTEST

Graduate and undergraduate authors are eligible for the Best Student Paper contest. The student must be the primary author and should indicate that they wish to be considered for the contest when submitting the preliminary manuscript. Each student's professor will be asked to certify that the paper is primarily the work of the student. It is expected that the co-authors of student papers will be limited to those who provided DIRECT contributions to the paper; in general cases the limit is no more than six authors total, including the student.

### STUDENT HARDWARE DESIGN CONTEST

A Student Hardware design contest is also being held. Undergraduate, graduate, Ph.D. Students at university/college are eligible to participate in the contest. Topic: Details to follow on symposium website ([www.emc2024.org](http://www.emc2024.org)).