2027 IEEE INTERNATIONAL SYMPOSIUM ON ELECTROMAGNETIC COMPATIBILITY, SIGNAL & POWER INTEGRITY

PORTLAND, OREGON

EMC SIPI 2027

JULY 12 – JULY 16

CELEBRATING THE 70th ANNIVERSARY OF THE EMC SOCIETY

CALL FOR SUBMISSIONS

The IEEE EMC Society is seeking original, unpublished papers covering all technologies that are affected by EMC, Signal & Power Integrity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 Portland, Oregon. Share your insight, ask questions, learn from the experts/innovators and see new products at the 2027 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, your paper will be uploaded to IEEE Xplore® and receive the exposure and recognition that brings.

THE COMMITTEE PROPOSES SPECIAL TOPIC AREAS:

Advanced Packaging EMC and SIPI — chiplets, 2.5D/3D integration, co-packaged copper and optics; AI/ML Applications to EMC and SIPI Problems; High-Speed SerDes, Die-to-Die, and Die-to-HBM Interconnects; Power Delivery and Integrity for Data Center and AI Infrastructure; Automotive and E-Mobility EMC, EMC for Aerospace, Defense, and Space

Special Sessions are unique, dedicated sessions focused on a specific topic and feature 4–6 page Traditional Papers, with each paper presenting a different facet of the topic. Collaboration with a Technical Committee is encouraged, but sponsorship is not required.

Abstract-Reviewed Papers are an alternative to the 4–6-page Traditional Paper that enables Authors to present their work without the burden of writing a full manuscript. Abstract-Reviewed Papers have a later submission deadline and only require an extended abstract (approximately one page in length).

Poster Papers are Traditional Papers for which the Author chooses to present their work in an interactive, poster session instead of the typical classroom style presentation.

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, and presentation materials (PowerPoint slides) are collected after the proposal is accepted.

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 and 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: Electrical System and Power Electronics EMC -** Power EMC, Conducted Emissions, Power Conversion, Transportation & Electric 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-3: Machine Learning and Artificial Intelligence in EMC and SIPI -** Deep Neural Networks, Support Vector Machines, Gaussian Process Regression, Bayesian Optimization

KEY DATES

NOVEMBER 20, 2026:
Submission Deadline for Special Session Proposals

DECEMBER 20, 2026:
Submission Deadline for Traditional and Special Session Papers

JANUARY 15, 2027:
Submission Deadline for Workshops & Tutorials and Experiments & Demonstrations Proposals

FEBRUARY 5, 2027:
Notification of Acceptance/Rejection for Traditional and Special Session Papers

FEBRUARY 19, 2027:
Submission Deadline for Abstract-Reviewed Papers

FEBRUARY 19, 2027:
Notification of Acceptance/Rejection for Workshops & Tutorials and Experiments & Demonstrations

MARCH 5, 2027:
Submission Deadline for Revised Traditional and Special Session Papers

APRIL 8, 2027:
Notification of Acceptance/Rejection for Traditional, Abstract-Reviewed, and Special Session Papers

MAY 7, 2027:
Submission Deadline for Final Papers and Workshop & Tutorial Presentations (Registration Required)

#IEEE_ESP27

CROSSTALK

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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 must be uploaded into the Review System using the link provided on the symposium website (2027.emcsipi.org) beginning **October, 2026**. 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. Times will vary for Workshops and Tutorials based upon the number of presentations in any given session. Further details will be communicated to the authors in due course.

CRITERIA FOR PAPER ACCEPTANCE

- **Technical Merit:** How rigorously does the submission's methodology, analysis, and evidence support its conclusions, including validation and limitations?
- **Clarity:** How clearly and effectively does the submission follow IEEE formatting, present its organization and writing, and integrate figures, tables, and data with the text?
- **Originality:** To what extent does the submission provide original ideas, methods, results, or meaningful advances beyond existing published work?
- **Relevance:** How directly relevant are the submission's topic and results to the EMC/SIPI community and its scope, including their potential usefulness to that community?

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. Topics and other details will be available on the symposium website.