



# APEMC 2022

May 8-11, 2022, Beijing, China



## 1<sup>st</sup> CALL for PAPERS

### The 13<sup>th</sup> Asia-Pacific International Symposium on Electromagnetic Compatibility & Technical Exhibition

The 13<sup>th</sup> Asia-Pacific International Symposium on Electromagnetic Compatibility & Technical Exhibition (APEMC 2022) will be held during the 2022 Beijing EMC Week ([www.emccconf.org](http://www.emccconf.org)), in Beijing, China, from May 8 to 11, 2022.

The Symposium will continue the APEMC spirit to engage and address the world-wide EMC community with primary focus on the Asia-Pacific region. The 2022 APEMC will serve as a bridge and provide a broad exchange platform for both academia and industry. The symposium will celebrate innovations and technology leaderships through Best Symposium Paper Awards, Best Student Paper Awards, and other reputable recognitions. The scope of the symposium will encompass the entire spectrum of electromagnetic compatibility, electromagnetic environment, signal integrity as well as featured EMC in emerging technologies.

We warmly invite all prospective authors to submit original papers with latest research results. We also welcome proposals for focused sessions, industrial forums, workshops and tutorials.

### Important Dates

■ <b>Proposals for special/focused sessions, industrial forums, workshops and tutorials (Deadline)</b>	<b>Dec. 05, 2021</b>
■ <b>Preliminary Paper Submission Deadline</b>	<b>Dec. 20, 2021</b>
❖ <b>Three (3)-page</b> Preliminary Paper Submissions <i>(3-page papers presented at the conference will be included in the IEEE Digital Xplore with EI indexing)</i>	
<b>OR</b>	
❖ <b>One (1)-page</b> Abstract Submission <i>(to be published in conference proceedings but NOT in IEEE Xplore; No final paper submissions are required)</i>	
■ <b>Notification of Acceptance</b>	<b>Feb. 15, 2022</b>
■ <b>Final Paper Submission Deadline</b>	<b>Mar. 05, 2022</b>

All submissions must be electronic. Details can be found in the symposium website:

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

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## Symposium Topics

### ■ EMC Management and Standards

EMC Specifications & Standards; EMC Control and Management; Laboratory Accreditation; EMC Personnel Certification; National and Regional EMC Legislation; Mutual Recognition Agreements; EMC Education

### ■ EMC Measurements and Environment

Test Instrumentation; Time-Domain Measurements; Test Procedures; Emission and Immunity Testing; Test Facilities (reverberation and anechoic chambers etc), Confidence and Reproducibility; EM Environment

### ■ Lightning

Lightning Parameters and Models; Pulse Models; Coupling of Lightning EMF to Lines; Effects in the Atmosphere; Protection and Standards; Intentional EM Interference (IEMI)

### ■ High Power Electromagnetics

NEMP, HPM, EMP; High Power Protection; Intentional EM Interference (IEMI), High Voltage Power Grid EMC

### ■ Renewal Energy and Smart Power Grid EMC

Solar Cell System EMC, Wind Energy System EMC, Wireless Power Transmission; Power Delivery EMC; Power Electronics EMI

### ■ System-Level EMC and Protection

Electrically Large and Complex Systems including Transmission Lines; Shielding, Coupling and Grounding; EMC Product Design; EMC Topologies; System Installation Aspects; EMC Quality Assurance; EMC Cost Factors; Neural Networks and EMC; Visualization for EMC; Virtual EMC-Environment; PCB EMC

### ■ Smart Car, High-speed Railway and Naval EMC

Automotive Components, Car Controllers; Radar Detection System EMC; Automotive System EMC; High Speed Rail EMC; High Speed EMC; Metropolitan Transit System EMC

### ■ EMC in Space, EM Safety

Space Electromagnetic Environment; EM safety, Space Vehicles (Satellites, space crafts, space sensors, launch vehicles etc) EMC Issues; Avionics EMI

### ■ AI-IC and Semiconductor EMC

Neuromorphic chips, ESD for Chips; Measurement of IC EMC; Modeling of IC EMC; EMC in System-on-Chip; EDA tools for IC EMC; RFIC EMC; RFID EMC; Smart Power IC EMC; Harsh EM Environment Effects on ICs

### ■ Signal Integrity and Power Integrity

Simulation Techniques; Measurement Techniques; Interconnects; Package Integration; PCB; System-in-Package; Chip-package and PCB Co-design and Simulation

### ■ Wireless Communication EMC

5G-6G com systems, Cellular Devices & Systems; Internet Systems; Sub-station EMC; UWB, Wireless LAN EMC, Wireless Regulations

### ■ EDA, Computational Electromagnetics & Multiphysics

Numerical Techniques in EMC Problems; Fast Methods for Large/Complex Systems; Hybrid Methods; Validation and Benchmarking; Model Order Reduction Techniques; Advances in EM-based Electronic Design Automation Tools; Statistical Analysis

### ■ Bio-Medical EM

EM Interaction with Biological Systems at any Frequency; Exposure Studies; Medical Applications in Diagnosis and Therapy; Cellular Phone Dosimetry

### ■ Nanotechnology and Materials

Nanotube Interconnects; Nanomaterials for EMC; Metamaterials; PBG/EBG for EMI; Nanoelectronic EMC

## Paper Submission

**Authors can submit either a 3-page full paper or one-page abstract paper.**

a) A **3-page full** paper shall include title, author's affiliation, abstract, figures and references. The presented papers will be included **in the IEEEXplore with EI indexing**.

b) **one-page** abstract paper shall include title, author's affiliation, key findings with max. 2 figures and 2-3 references. One-page abstract paper will be published in the conference proceedings, but NOT in the IEEE Xplore.

All submissions must be in electronic format (PDF). Please download the **Word templates** from the symposium website ([www.apemc.org](http://www.apemc.org)).

## Student Paper Prize

Papers entering the Student Paper Prize competition must be predominantly the work of the student with him/her being the principal author and also the presenter. Please indicate during the paper submission if a student wants a paper to be considered for the Student Paper Prize.

## Paper Acceptance

Authors will be notified of the paper acceptance with necessary information about final paper submission. All final full papers (not Abstract papers) shall be three pages in length, including figures, tables and references.

## Exhibition

Technical Exhibition has been traditionally a major highlight of the APEMC symposium. It offers precious opportunities for companies to showcase their latest, innovative technologies, products and services to the large EMC and Microwave communities. It provides an excellent platform to meet, mingle, create and seize new opportunities through the international gathering of everyone involved in technologies associated with RF, Microwave and EMC hardware, instrumentation, software etc.

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Beijing,  
the Window to the World