Call for Papers

Aim of the Conference
ISEF 2021 will bring together the international community of researchers, engineers and designers engaged in methods and techniques for computation, modelling, simulation, measurements and application of electromagnetic fields. In order to exchange experiences and information about new trends and rapid progress in the field, the conference will feature both oral and poster presentations.

Topics
- Field theory and advanced computation in electromagnetism
- Innovative computer methods for field simulation
- Multiphysics and coupled problems
- Inverse problems and optimal design methods
- Electrical machines, transformers, sensors and actuators
- Electromagnetic components of mechatronics and micro/nano electromechanical systems (MEMS/NEMS)
- Design and computation of special electromagnetic devices
- Reduced order methods for computation of electromagnetic devices
- Equivalent circuit modelling of field problems
- Electromagnetic phenomena in autonomous cars and vehicles
- Noise and vibrations of electrical drives
- Computation of electrical machines under faulty conditions
- Electromagnetism in materials
- New materials
- Metamaterials in electromagnetics
- Measuring, modelling and simulation
- Electromagnetic phenomena in electrical power systems
- Electromagnetic compatibility
- Bioelectromagnetism, human exposure and electromagnetic hazards
- Nondestructive testing (methodology, measurement, diagnosis, testing)
- Database and expert systems in the field computation context
- Artificial intelligence and computational intelligence in vector field calculation
- Optimization and computer aided design
- Software methodology and visualization
- Sensors, Actuators, MEMS – modelling and optimal design
- Virtual reality technology applied in sensors, actuators, NEMS/MEMS modelling and optimal design
- High-frequency problems and applications – microwaves, millimeter and terahertz waves: cellular 5G and 6G technologies
- Electromagnetism in education

Submission
Authors are invited to submit 2-page digest summarizing the theory, methods and new results via ISEF 2021 website (isef.eu). The authors of accepted papers will be invited to present their research work at the Conference and submit 4 - 6 page full papers that will be published in the Conference Proceedings (available online).

Post-publications
Digests relevant to papers presented at the conference will undergo the online publication in the IEEE Xplore Digital Library. Papers presented at the Conference and accepted after a peer reviewing process will be published in: COMPÉL (Intl Journal for Computation and Mathematics in Electrical and Electronic Engineering), UAEM (Intl Journal of Applied Electromagnetics and Mechanics), SENSORS, OpenPhysics, EPJAP (The European Journal Applied Physics).

Important Dates
- 23 April 2021 – 2-page digest submission deadline.
- 8 June 2021 – Notification of acceptance.
- 10 July 2021 – Early Bird Registration deadline.
- 14 August 2021 – Full paper submission deadline.
- 19 September 2021 – Conference opening.

Registration and Submission
All the activities related to ISEF 2021 (registration, paper submission, etc.) will be completed via the conference website: https://isef.eu/

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