



19th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering

29-31 August 2019, Nancy - FRANCE

Call for Papers

Aim of the Conference

ISEF 2019 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, authors from around the world are invited to submit original papers, which previously have not been published, about their research related to the topics of the symposium. The Conference will feature both oral and poster presentations.

A few thematic sessions will be also organized, following an invitation based procedure.

Companies and research organizations will have technical and commercial exhibitions. In ISEF 2019 a special session for MSc and PhD students, undertaking research in the broader area of electromagnetism, will be scheduled. To encourage and support their participation, a reduced registration fee is offered.

English will be the working language for all printed materials, presentations and discussions.

Topics

- Field theory and advanced computation in electromagnetism
- Electrical machines, transformers, actuators, micromachines
- Electromagnetic components of mechatronics and microelectromechanical systems (MEMS)
- Coupled systems and special applications
- Electromagnetism in materials (new materials, measurements, modelling, computation)
- Electromagnetic phenomena in electrical power systems
- Optimization and computer aided design
- Software methodology and visualization
- Bioelectromagnetism and electromagnetic hazards
- Equivalent circuit modelling of field problems
- Nondestructive testing (methodology, measurement, diagnosis, testing)
- Design and computation of specific electromagnetic devices
- Electromagnetic compatibility
- Application of artificial intelligence in vector fields calculation
- Database and expert systems in the field computation context
- Electromagnetism in education
- Artificial and computational intelligence
- Electromagnetic phenomena in electric cars
- Noise and vibrations of electrical machines
- Reduced order methods for computation of electromagnetic devices
- Computation of electrical machines under faulty conditions
- Sensors, Actuators, MEMS – modelling and design optimization
- Propagation of radio waves – systems, modelling, applications

Submission

Authors are invited to submit 2-page digest summarizing the theory, methods and new results. 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 on USB.

All accepted papers, accompanied by a paid registration, will be included in the conference program and will be published in the conference proceedings.

Post-publications

Papers presented at the Conference and accepted after a peer reviewing process will be published in **COMPEL** (Intl Journal for Computation and Mathematics in Electrical and Electronic Engineering), **IJAEM** (Intl Journal of Applied Electromagnetics and Mechanics), **SENSORS**, **EPJAP** (The European Journal Applied Physics), and other journals should be announced in the conference webpage.

Important dates

- **31 January 2019**, 2-page digest submission deadline
- **15 April 2019**, Notification of acceptance
- **30 June 2019**, Registration, Payment and Full paper submission deadline
- **29 August 2019**, Conference opening

Registration and Submission

All the activities related to ISEF 2019 (registration, paper submission, etc.) will be completed via the conference website: <https://isef2019.sciencesconf.org/>

Venue

The symposium will be held at “Prouvé Congress Center” of Nancy. Located in the city center, 1 min walk from Nancy TGV station and the public transport platform, it is a last generation equipment with an exhibition hall of 3000 m², adjustable in room of 2400 seats, 2 auditoriums, 13 meeting rooms for 1300 people with simultaneous translation booths, a panoramic receptive area. It is the ideal setting for the organization and reception of all types of events.

Nancy is the historic city of Stanislas Leszczynski, King of Poland and Duke of Lorraine. Nancy is famous around the world for its group of architectural masterpieces inscribed on the UNESCO World Heritage List: Place Stanislas, Place de la Carrière and Place d’Alliance. Nancy is famous for “Art Nouveau”. The movement Art Nouveau, School of Nancy, was born when the Prussians annexed the Alsace and Moselle regions in 1871. Nowadays, Nancy is a nice city with new buildings, gardens, museums, shopping centers and many nice places. Nightlife is varied; there are always people in town, whether winter or summer, in bars and nightclubs, at concerts and shows. <http://en.nancy-tourisme.fr/home/>

Accommodation / Transportation

Nancy is in the northeast part of France close to Belgium, Luxembourg, Germany and Switzerland. A high-speed train (TGV) connect it to Paris and Charles de Gaulle Airport (1hr30mn). Smaller airports are not far from Nancy (Nancy-Metz, Luxembourg, Basel and Strasbourg). Many hotels are located in the city center.

For more information about the accommodation, travel, transportation, and hotel reservation please visit the ISEF 2019 website at: <https://isef2019.sciencesconf.org/>

Exhibition

An exhibition on computation, modelling, simulation software in electromagnetics, computer tools, scientific instrumentation for electromagnetic testing and validation, as well as electromagnetic devices related to ISEF 2019 is planned to be held during the Conference. The objective is to give the worldwide attendance of the Conference the opportunity to become acquainted with the latest innovations offered by state-of-the-art products available on the market. Potential exhibitors are invited to contact the organizers for further information.

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