COMPUMAG 2021
January 16-20, 2022, Cancun - Mexico

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CALL FOR PAPERS

Welcome to the conference COMPUMAG 2021

You are cordially invited to attend the 23rd Conference on the Computation of Electromagnetic Fields COMPUMAG 2021 that will be held on January 16th-20th, 2022 in the city of Cancun, Mexico. The Compumag conferences began in 1976 in Oxford, United Kingdom. This conference aims to review recent developments in numerical computation of electromagnetic fields. There have been 22 conferences held so far in different countries covering all the world continents: Europe, Asia, America and Oceania.

Venue

Cancun is a recognized city throughout the world for its spectacular white sand beaches, its fascinating sea in turquoise blue tones, Mayan culture, water activities, and adventure. It is also known for its international cuisine, spectacular golf courses, sophisticated spa facilities; exclusive shopping centers, typical handicraft markets as well as shows, bars, and nightclubs that give fame to its incomparable nightlife.
The conference will take place in Cancun Center, the first and only convention center in the city. It is located in the heart of the hotel zone, Punta Cancun, and it is only 20 minutes from the international airport of Cancun.

Important dates

Two-page digest submission due: June 30th, 2021
Notification of acceptance: September 27th, 2021
Early bird paper registration due: November 15th, 2021.
Submission of 4-page full paper for IEEE Trans Magnetics due: January 24th – February 7th , 2022.

Venue: Cancun, Mexico

Conference organizers

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Marco Arjona (ITL, Mexico)
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Aim

The aim of the conference is to discuss recent developments and practical applications in the numerical computation of electromagnetic fields for engineers and physicist engaged in the design of electromagnetic devices. Authors from all over the world are encouraged to submit original and previously unpublished contributions, reflecting the new trends and rapid progress in the field. The conference will feature oral and poster presentations. Companies and research organizations will have technical and commercial exhibitions.

Contributions presenting previously unpublished, new results on the topics of interest are invited. The submission must deal with the numerical solution of electromagnetic field problems. The focus of the research work must be on the novelty of the numerical approach, the underlying application can be only used to demonstrate the new computational technique.

Topic list

1. Mathematical modelling and formulations.
2. Static and quasi-static fields.
3. Wave propagation.
4. Electromagnetic compatibility.
5. Nano-electromagnetic computation.
6. Bio-electromagnetic computation.
7. Electromagnetic sensors, sensing and metrology.
8. Photonics and optoelectronics.
9. Material modelling.
10. Multi-physics and coupled problems.
11. Multi-scale modelling and homogenization.
12. Optimization and design.
13. Numerical techniques.
14. Software methodology.
15. Novel computational methods for electric machines and devices.
16. Education.