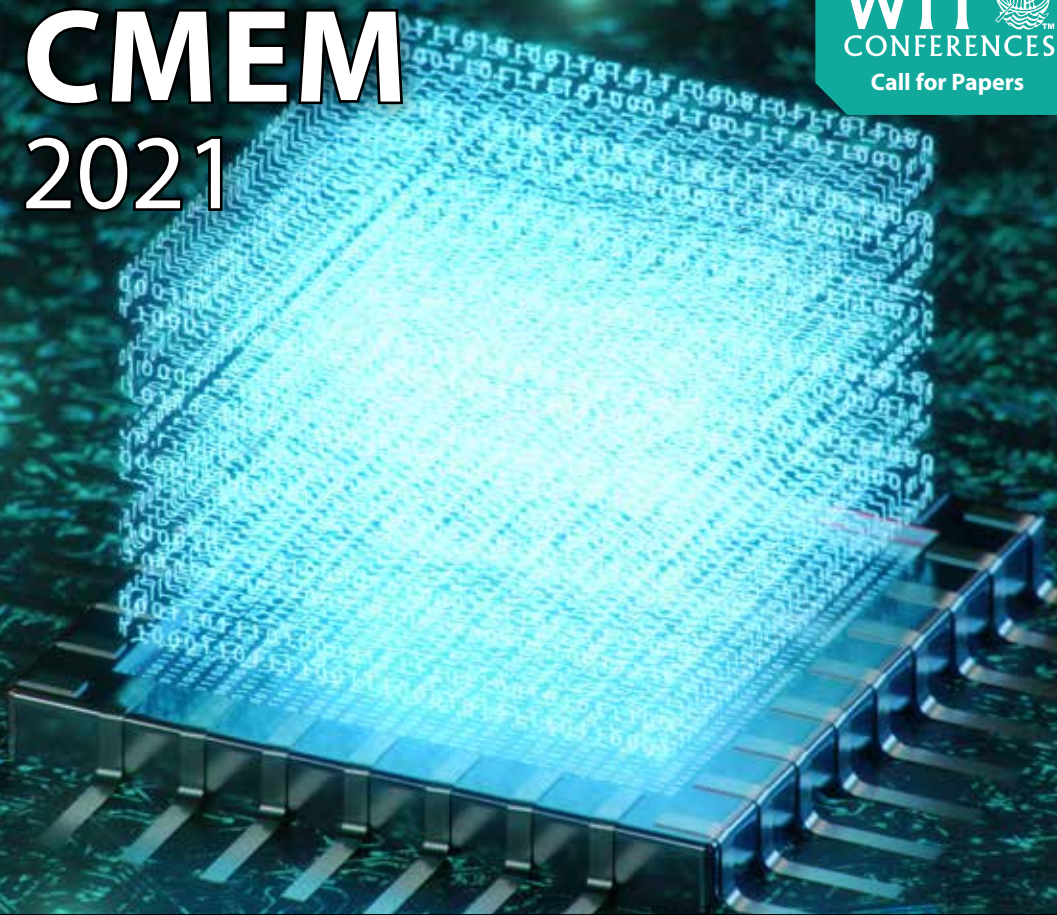


CMEM 2021

WIT
CONFERENCES
Call for Papers



20th International Conference on Computational Methods and Experimental Measurements

25 – 27 May 2021 | Rome, Italy

Organised by

Wessex Institute, UK
University of Naples "Federico II", Italy
Link Campus University, Italy

Sponsored by

WIT Transactions on Engineering Sciences
International Journal of Computational Methods
and Experimental Measurements



www.witconferences.com/cm2021

CMEM 2021 is the 20th International Conference in this well-established series on Computational Methods and Experimental Measurements. These successful meetings provide a unique forum for the review of the latest work on the interaction between computational methods and experiments.

This series of conferences started in Washington DC (1981) followed by a meeting on board the Queen Elizabeth II Ocean Liner (1984); Porto Carras, Greece (1986); Capri (1988); Montreal (1991); Siena (1993); Capri (1995); Rhodes (1997); Sorrento (1999); Alicante (2001); Sani Beach, Greece (2003); Malta (2005); Prague (2007); the Algarve (2009), the New Forest, home of the Wessex Institute, UK (2011), A Coruña, Spain (2013), Opatija, Croatia (2015), Alicante, Spain (2017) and Seville, Spain (2019).

The principal objective of the conference has always been to provide to the international technical and scientific community, an opportunity to discuss the interaction between experimental measurements and computational methods with all associated topics. Foremost consideration and importance are devoted to their reciprocal and advantageous integration.

The continuous improvement in computer efficiency, coupled with diminishing costs and

the rapid development of numerical procedures have generated an ever-increasing expansion of computational simulations that permeate all fields of science and technology. As these procedures continue to grow in magnitude and complexity, it is essential to validate their results to be certain of their reliability. This can be achieved by performing dedicated and accurate experiments, which have undergone a constant and enormous development. At the same time, current experimental techniques have become more complex and sophisticated so that they require the intensive use of computers, both for running experiments as well as acquiring and processing the resulting data.

The conference aims to address a wide variety of topics related to experimental and computational methods with emphasis on new applications and the latest developments.

Conference Topics

The following list covers some of the topics to be presented at the conference. Papers on other subjects related to the objectives of the meeting are also welcome.

Computational and experimental methods

Fluid flow studies and experiments

Structural and stress analysis

Materials characterization

Electromagnetic problems

Structural integrity

Destructive and non-destructive testing

Heat transfer and thermal processes

Advances in computational methods

Automotive applications

Aerospace applications

Other applications in industry

Ocean engineering and marine structures

Fluid structure interaction

Bio-electromagnetics

Hybrid methods

Process simulations

Environmental monitoring, modelling and applications

Validation of computer modelling

Data and signal processing

Virtual testing and verification

Measurements in engineering

Electromagnetic compatibility

Life cycle assessment

Benefits of Attending

USB Drive

Delegates will receive a USB drive at the conference containing the presented papers.

Publication

Papers presented at CMEM 2021 are to be published in a Volume of WIT Transactions on Engineering Sciences (ISSN 1743-3533). The publication will be available in both electronic and hard copy.

Indexing

The WIT Transactions are DOI registered with CrossRef and are currently listed in indexing services such as Scopus and Google Scholar, as well as being submitted to the Web of Science. All conference books are listed in the British Library and American Library of Congress.

Open Access and Digital Archive

All conference papers are archived permanently on our electronic library where they can be downloaded for free. (www.witpress.com/elibrary)

Peer Review

To ensure the quality of our publications, abstracts and papers are double peer-reviewed by members of the International Scientific Advisory Committee and other experts, with manuscripts processed through CrossRef Similarity Check to screen for plagiarism.

Reduced Fee for PhD Students

The Wessex Institute believes in the importance of encouraging PhD students to present and publish innovative research at its conferences. As a result, the Institute offers PhD students a much-reduced conference fee.

Networking

Participants can present their research and interact with experts from around the world, as part of a unique community.

Journal Publication Opportunity

After the conference, delegates will be invited to submit an enhanced version of their conference paper to one of the WIT Press International Journals.

Honorary Chairmen

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Rector of Link Campus University, Italy

Carlo Maria Medaglia

Pro-Rector for Research of Link Campus University

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Yolanda Villacampa

Universidad de Alicante, Spain

Giuseppe Zappala

National Research Council, Italy

Vadim Zhmud

Novosibirsk State Technical University, Russia



Location

The Italian capital, Rome, boasts an unrivalled 3,000 year heritage of globally influential art, architecture and culture. The city is home to iconic historic landmarks, including the ancient ruins of the Colosseum and the Roman Forum, and abounds with world-class museums such as the Vatican Museums and the Borghese Gallery. As well as substantial Roman remains, significant Baroque and Renaissance buildings pepper the city centre. Today, Rome is not only a cultural centre, but also a commercial, financial and educational hub that has successfully retained its traditional culture and regional cuisine.

Venue

Link Campus University was established in 1999 in Rome. The University is characterized by its strong international presence and

strong integration between the university and the world of work. Link Campus University boasts a training program characterised by an innovative methodological approach, as well as well-structured teaching capable of dealing with new problems in the economic, legal, political and communication fields. Link Campus University is situated in a magnificent historical complex, the Manor of San Pio V.



Submission Information

Abstracts of no more than 300 words should be submitted as soon as possible.

Abstracts should clearly state the purpose, results and conclusions of the work to be described in the final paper. Final acceptance will be based on the full-length paper which, if accepted for publication, must be presented at the conference.

The language of the conference will be English.

Online submission:

www.witconferences.com/cm2021

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For more information visit: www.witconferences.com/cm2021