

# 11<sup>th</sup> INTERNATIONAL CONFERENCE ON INVERSE PROBLEMS IN ENGINEERING: THEORY AND PRACTICE

[icipe2024.org](http://icipe2024.org)

**June 23-28, 2024**  
**Búzios, Rio de Janeiro, Brazil**

## CONFERENCE SYNOPSIS AND SCOPE

The 11<sup>th</sup> International Conference on Inverse Problems in Engineering: Theory and Practice (ICIPE-2024) belongs to a successful series of conferences started in 1993 and held in a three-year period. The ICIPE-2024 Conference is held under the auspices of ABCM – Brazilian Society of Mechanical Sciences and Engineering.

**ICIPE-2024 will emphasize a broad range of deterministic, statistical, mathematical, computational and experimental approaches, which can be applied to the solution of inverse problems and to the design of experiments.**

The topics listed below give a general guideline for possible contributions:

- Acoustics
- Electromagnetism
- Geophysics
- Imaging
- Heat and mass transfer
- Fluid mechanics
- Solid mechanics
- Tomography and inverse scattering
- Vibrations and structural dynamics
- Nuclear transport
- Inverse design
- Optimum experimental design
- Property estimation
- Benchmark results
- Novel inverse methodologies
- New theoretical findings

Contributions dealing with practical applications of inverse problems are encouraged, such as in petrochemistry, aeronautics, astronautics, medicine, groundwater, materials processing, remote sensing, non-destructive evaluation, etc.

## KEYNOTE LECTURERS

- **George S. Dulikravich**, Florida International University, USA
- **Ryszard Bialecki**, Silesian University of Technology, Poland
- **Jari Kaipio**, University of Eastern Finland, Finland
- **Regina Almeida**, LNCC, Brazil
- **Philippe Le Masson**, Université de Bretagne - Sud, France
- **Antonin Chambolle**, Université Paris-Dauphine, France
- **Alain Kassab**, University of Central Florida, USA
- **Filippo de Monte**, University of L'Aquila, Italy
- **Carola-Bibiane Schönlieb**, University of Cambridge, UK

## IMPORTANT DATES

<b>Abstracts due:</b>	September 22, 2023
<b>Notification of abstract evaluation:</b>	October 27, 2023
<b>Full papers due for review:</b>	December 22, 2023
<b>Notification of paper evaluations:</b>	February 16, 2024
<b>Final papers due:</b>	March 29, 2024

## PUBLICATIONS

- **Abstracts of 400 words maximum must be submitted by September 22, 2023**, for assessment of scientific relevance and adherence to the ICIPE-2024 aims and scope. Please follow the instructions at [icipe2024.org](http://icipe2024.org).
- Authors of accepted abstracts are welcome to submit full papers by December 22, 2023. Submitted papers will then undergo peer evaluation by at least two qualified reviewers.
- The Book of Abstracts and the Conference Proceedings will be distributed to registered participants during the Conference.
- Authors of papers effectively presented in the Conference might be invited to submit expanded and revised versions of their ICIPE-2024 papers for additional review and possible publication in special issues of the following journals:
  - [Heat Transfer Engineering](#) (2022 Impact Factor: 2.3)
  - [Computational Thermal Sciences](#) (2022 Impact Factor: 1.5)
  - [Journal of the Brazilian Society of Mechanical Sciences and Engineering](#) (2022 Impact Factor: 2.2)

## VENUE

The city of Buzios is located 173 km east of the city of Rio de Janeiro. Buzios offers calm and crystalline water beaches at the west coast, while the east coast beaches face the open sea and attract surfers and water sports enthusiasts. Buzios offers its visitors an active nightlife and a great variety of shopping and restaurants.

## CONFERENCE ORGANIZATION

**Conference Chair: Prof. Keith Woodbury**, University of Alabama, USA, e-mail: [keith.woodbury@woodburyeng.com](mailto:keith.woodbury@woodburyeng.com).

**Conference Co-chairs: Prof. Helcio R. B. Orlande**, Federal University of Rio de Janeiro, Brazil, e-mail [helcio@mecanica.coppe.ufrj.br](mailto:helcio@mecanica.coppe.ufrj.br); **Prof. Marcelo Colaço**, Federal University of Rio de Janeiro, Brazil, e-mail: [colaco@mecanica.coppe.ufrj.br](mailto:colaco@mecanica.coppe.ufrj.br); **Prof. Gilmar Guimarães**, Federal University of Uberlândia, Brazil, e-mail: [gguima@mecanica.ufu.br](mailto:gguima@mecanica.ufu.br); **Prof. Antonio Leitão**, Federal University of St. Catarina, Brazil, e-mail: [acgleitao@gmail.com](mailto:acgleitao@gmail.com); **Prof. Cesar Cunha Pacheco**, Federal Fluminense University, [cesarp@id.uff.br](mailto:cesarp@id.uff.br)

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