



CALL FOR PAPERS

5th Joint ISSC/ITTC

International Workshop

**Uncertainty modelling in wave description
and wave induced responses**

17 – 18 February 2020

Centro de Congressos, Instituto Superior Técnico

Lisbon, Portugal



Organised by the Joint ISSC/ITTC Committee

With the local support of:



UNIVERSIDADE DE LISBOA

CENTRE FOR MARINE TECHNOLOGY AND OCEAN ENGINEERING

Background

ISSC - ITTC Joint Committee was created as a follow up of the contacts and cooperation that has been established along the years among various committees of both organizations. The committees that are more directly related with wave modelling and analysis and with wave induced responses have had a long tradition of communication and cooperation although this has also happened with other committees.

The first ISSC-ITTC workshop was held at ISSC2012 in Rostock, followed by a second one held at ITTC2014 in Copenhagen. The success of these workshops on one hand, and the need to ensure continuity and planning of cooperative activities on the other hand, lead ISSC and ITTC to create a joint committee, with a long term mandate in order to last more than one ISSC and ITTC Congresses, and with the objective to promote a common understanding between members of both organizations on matters related with modelling uncertainties in the description of waves and wave induced responses. ISSC - ITTC Joint Committee have been responsible for the organization of the following workshops. The 3rd ISSC-ITTC Workshop took place in Wuxi, China on September 2017, just before ITTC2017, followed by the 4th workshop that took place in Amsterdam on September 2018, just following ISSC2018.

These workshops have been considered as an appropriate form of the committee to transmit to the interested participants of ISSC and of ITTC the progress of the work.

Aim and scope of the 5th ISSC - ITTC Workshop

Given that in 2019 there will be no Congress of ISSC nor ITTC, it was decided to organize an independent workshop, associating the participation of the more relevant ISSC and ITTC committees, namely ISSC Committees I.1 Environment and II.1 Loads and ITTC Committees on Seakeeping and Ocean Engineering. Certainly, other committees deal with various aspects of wave induced loads and of uncertainty modelling and therefore the workshop is open to all ISSC and ITTC members, independently of the Committee they are involved with. All ISSC and ITTC members are invited to attend the workshop and also to make presentations.

The workshop will have several presentations that will present the collective work that is being done within the Joint Committee and then will have several presentations by members or groups outside the Joint Committee, which will certainly enrich the contents and the exchange of ideas on the subject area. For the workshop, only slide presentations will be required and will be distributed to participants. After the workshop, a special issue of a journal will be organized to include the papers corresponding to the workshop presentations that the authors decide to submit. This will ensure proper dissemination of the work being done in this subject.

Marine Structures Special Issue

A special issue of the Marine Structures Journal is being prepared, to which papers that are in the scope of the workshop can be submitted to be considered for possible publication after peer review process.

<https://www.journals.elsevier.com/marine-structures>

Venue

The workshop will take place at the Congress Centre of Instituto Superior Técnico at Alameda Campus.

Workshop Attendance

The registration is free of charge. However, costs related to meals and coffee breaks need to be covered.

1. Workshop Attendance (2 days – includes 4 coffee-breaks, 2 lunches and dinner) – 150 €
2. Committee meetings Attendance (1 day – includes 2 coffee-breaks and lunch) – 50 €

Attendance confirmation is mandatory. Please send an email to:

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Abstract Submission

Authors are invited to submit their abstract(s), of about 500 words on any of the referred topics. Abstracts should be sent to Prof. C. Guedes Soares (c.guedes.soares@centec.tecnico.ulisboa.pt) with copy to sandra.ponce@centec.tecnico.ulisboa.pt.



Aims of the ISSC - ITTC Joint Committee

The ISSC-ITTC Joint Committee consists of members from both organisations with the aim of undertaking and promoting studies that enable the determination of the accuracy and uncertainty of existing calculation methods for comparison with experimental results (and their associated uncertainty).

The Joint Committee should not be concerned with aspects of work that would routinely be undertaken by the standard committees from both organisations but should focus on aspects, like benchmark and comparative studies that may require more time to complete.

Scope of the ISSC-ITTC Joint Committee

The scope of work of the ISSC-ITTC Joint Committee should address aspects such as:

- Physical and experimental methods of modelling and representing the environment and the response of ships and offshore structures to the environmental excitations,
- Sources of sensitivity of results to uncertainties in physical tests, including modelling of the environment, response of floating structures input data, assumptions and procedures themselves,
- Benchmark studies on wave modelling,
- Benchmark studies relating to measurement and prediction of linear and nonlinear loads and responses,
- Benchmark studies relating to the prediction of whipping and springing effects on torsional loads.

The outcome of the work of the joint committee would contribute to the understanding of the state of the art and in this way contribute to the work of the traditional committees in each of the parent organisations.

ISSC - ITTC Joint Committee membership

Chairman: Carlos Guedes Soares, Portugal

Members: Elzbieta Bitner-Gregersen, Norway

Stefano Brizzolara, USA

Spyros Hirdaris, Finland

Kazuhiro Iijima, Japan

Yongwon Lee, UK

Ning Ma, China

Bettar el Moctar, Germany

Apostolos Papanikolaou, Greece

Josko Parunov, Croatia

Wei Qiu, Canada

Xueliang Wang, China

Takuji Waseda, Japan

Michael Woodward, Australia

Solomon Yim, USA

Julie Young, USA