

## VENUE INFORMATION

The Conference venue is **Split**, the capital of Dalmacija, the largest region on Adriatic coast of Croatia. Early day history of Split revolves around a Greek settlement founded in the area between the 3<sup>rd</sup> and 4<sup>th</sup> centuries. The most famous historic development came in 295 AD, when Roman emperor Diocletian ordered an imperial palace to be built there, for his retirement. History says that Diocletian was local son from present-day Solin (known as Salona in Roman times), about 5km from Split, who first became Roman army general and then emperor, and finally the first emperor to take retirement. Diocletian palace, which took ten years to build, is at present one of the most magnificent monuments in Split. It was used after Diocletian's death by many other Roman rulers, until 7<sup>th</sup> century when the Roman settlement of Salona (Solin) was abandoned, which allowed many of its inhabitants to seek sanctuary behind the palace's high walls and some of their descendants still live within the palace walls. The rest of city history is quite turbulent, alternating the periods of autonomy (until 14<sup>th</sup> century) and of domination by Venetian until late 18<sup>th</sup> century and Habsburg's empire until early 20<sup>th</sup> century, all contributing to rich cultural and monumental heritage of Split.

In the former Yugoslavia, city of Split was known for most vibrant sport scene, with a number of soccer, basketball, athletics and water-sports champions. Presently, Split has become the most important city on the Croatian coast, as the crossroad of ferries to beautiful islands (Hvar, Brač, Korčula ...) and a new tourist 'must-see' destination as a very pleasant place to spend some leisure time, with city's location offering quick trip to many Adriatic Sea resorts. Late-June is the best period just before the massive arrival of tourists and the weather is already sufficiently fine for a very pleasant visit.

Conference venue/ contact address (see plan below):

**Fakultet građevinarstva, arhitekture i geodezije**

Address: Matice hrvatske 15, 21000 Split, Croatia



**Travel / Hotels:** Split can easily be reached by a direct flight from most European capitals. The city of Split provides a wide variety of accommodations, including hotels *Radison Blue, Park, Posh, Palace Lidija ...*, among many others. More information on *travel* plans and *accommodation* can be obtained from the *conference web page*:

## ECCOMAS MSF 2025 - WEB PAGE

<https://ceacm.net/msf-2025/>

For further information contact:

Adnan IBRAHIMBEGOVIĆ

UT Compiègne – Alliance Sorbonne Univ., France

E-mail : [adnan.ibrahimbegovic@utc.fr](mailto:adnan.ibrahimbegovic@utc.fr)

Mijo NIKOLIĆ

FGAG, University of Split, Croatia

E-mail : [mijo.nikolic@gradst.hr](mailto:mijo.nikolic@gradst.hr)

ACMBH / CEACM

E-mail : [ceacm@ceacm.net](mailto:ceacm@ceacm.net)



Diocletian Emperor Palace, Split, Croatia



First Announcement & Call for Papers

## 7<sup>th</sup> International Conference on Multi-scale Computational Methods for Solids and Fluids

June 25 – 27, 2025



Split, Croatia

co-organized by:

Adnan IBRAHIMBEGOVIĆ

UT Compiègne - Alliance Sorbonne Université, France /  
Institut Universitaire de France



Mijo NIKOLIĆ

FGAG, University of Split, Croatia



UNIVERSITY OF SPLIT FACULTY OF CIVIL  
ENGINEERING, ARCHITECTURE AND GEODESY



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## OBJECTIVES OF ECCOMAS MSF 2025

The main idea of this thematic conference is to examine recent advances from mechanics and applied mathematics in a currently very active research domain of multi-scale modeling and computations in solid and fluid mechanics. The latter involves methods which bridge phenomena taking place at multiple scales in space and time and which ought to be placed in interaction or accounted for simultaneously in order to provide the most reliable explanations. This class of problems calls for the development and combination of different analytical tools (homogenization, asymptotic analysis) and computational methods (parallel computing, stochastic analysis) in order to advance the field towards currently relevant nonlinear applications. A number of different schools have developed in various domains of fluids and solids, both in mathematics and mechanics, with sometimes very little or no interaction between them. It is an explicit goal of this thematic conference, in the true spirit of ECCOMAS, to bring these different communities together, and thus provide a sound basis for a fruitful exchange of ideas among them.

The conference seeks also to provide a platform for learning from some of the worlds' leading specialists in analysis and design of complex engineering structures and systems, coming from aerospace, civil and mechanical engineering, material science, and in the design and analysis of numerical algorithms from applied mathematics. The main goal is elaborating the multi-field and multi-physics approach, which has significantly modified previously firm frontiers among these traditional engineering disciplines.

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## INTERNATIONAL SCIENTIFIC COMMITTEE

...(see conference webpage)...

## ORGANIZING COMMITTEE

Ibrahimbegovic A., UTC - Alliance Sorbonne Univ., France  
Nikolić M., FGAG, University of Split, Croatia

## ECCOMAS MSF 2025 TOPICS

According to the preliminary program, the introductory *keynote lectures* of each day of this conference should set the contents and the boundaries as well as indicate the main issues concerning computational methods for multi-scale analysis in solid and fluid mechanics. A number of organized sessions (containing 4-6 papers) will be scheduled at the conference.

The Conference topics to be addressed are:

*Heterogeneous materials*  
*Masonry structures*  
*Complex structures*  
*Material and structure failures*  
*Adaptive modeling*  
*Mechanics of porous media*  
*Fluid-structure interaction*  
*Multi-phase flows*  
*Turbulence*  
*Wave propagation*  
*Fracture*  
*Instability*  
*Stochastic Processes*  
*Uncertainty Propagation*  
*Machine Learning*  
*Case Studies from Industry ...*

## CALL FOR ABSTRACTS / PAPERS

All accepted papers will be published in the form of extended abstract in a book of Proceedings along with the textbook containing the selected full-size contributed papers and keynote lectures. Special issue of scientific Journal of Coupled Systems Mechanics is also planned for publication of selected papers.

Authors are invited to submit an *abstract* of 2 to 4 pages by using the template file on conference website by **January 15, 2025**, containing the title of the proposed paper, the full address (including an e-mail) and the name of the corresponding author. The authors should indicate to which main conference topic their paper should be related.

## CALENDAR

15 October 2024. Website opens for abstracts submission  
**15 January 2025.** Deadline for abstracts submission  
**15 March 2025.** Penalty for late registration payment  
15 June 2025. Deadline Full paper submission  
**23-24 June 2025.** Pre-conference short course  
**25-27 June 2025.** ECOMASS MSF Conference at Faculty of Civil Engineering in Split

## REGISTRATION FEES

**ECCOMAS MSF 2025** registration package, with **early registration cost 590 Euros before March 15, 2025**, includes: the proceedings of keynote and selected lectures and abstracts of other participants, admission to complete scientific program, welcome reception, lunches, coffee breaks and a guided tour of Diocletian's Emperor Palace and the old city of Split.

Late registration fees **cost 590+100=690 Euros** made until April 15, 2025 will guarantee the place in the ECCOMAS MSF 2025 Final Program. For any later fees payment and later arrival, the presentation place is not guaranteed.

The potential participants are asked to register by filling in the registration form (available at ECCOMAS MSF 2025 web site) and pay the fees according to the calendar. **Invoices for payment of the registration fees will be sent to the author after the on-line registration has been conducted.**

## PRE-CONFERENCE COURSE

Preconference course participant **early registration cost 330 Euros before March 15, 2025 (afterwards 430 Euros)**, are admitted to scientific program.

This is a course offered to Graduate students interested in current research in Solid and Fluid Mechanics. The course runs **June 23-24, 2025**, just before the conference ECCOMAS MSF 2025, held June 25-27, 2025. The course students are not expected, in general, to make presentation at ECCOMAS MSF 2025.

## SOCIAL PROGRAM

Optional excursions for registered participants and accompanying persons will be organized during ECCOMAS MSF 2025.

The excursions will be organized either in Split, a city with a rich cultural life, or a number of tourist attractions within an easy reach from Split. The post-conference tours to Dubrovnik or to Mostar are also planned.

More information will be given in the Final Announcement and through the *web page of the conference*. *Pre-registration* for participants and accompanying persons is required.