

Announcement and Call for Papers

SCOPE

The SMART 2023 ECCOMAS Thematic Conference will be organized in Patras, at the Conference Center of the University of Patras. The conference is the 10th event in a series of successful international conferences which have followed the field of intelligent materials, smart structures and systems, since 2003 to its current rapid maturity. Its previous editions were held in Poland (2003, 2007), Portugal (2005, 2009, 2015), Germany (2011), Italy (2013), Spain (2017) and Paris (2019).



Ancient Olympia <https://upload.wikimedia.org/wikipedia/commons/f/f1/GR-olympia-philippeion.jpg>

SMART 2023 aims at promoting research, development and applications of smart materials and structures through the exchange of scientific results and insight from leading international scholars and specialists from Europe, Americas, and Asia. The conference provides a forum for the discussion of recent advances in the highly interdisciplinary field of smart materials and structures, development of future ideas in a multidisciplinary level and encourages transfer of advanced scientific results from research to applications.

IMPORTANT DATES

First call for papers	May 3, 2022
Proposals for Special Sessions	Oct. 15, 2022
Abstract submission	Jan. 15, 2023
Abstract acceptance notification	Feb. 15, 2023
Full paper submission (Mandatory)	Mar. 31, 2023
Early Registration	Mar. 31, 2023
Final program	May 15, 2023
Conference	July 3-6, 2023

Registration required to keep presentation in the program.

SUBMISSION OF PAPERS

Participants are kindly invited to submit by Jan. 15, 2023, an extended abstract (in English, max. 300 words) to the conference website. Abstracts and final papers can be submitted electronically at <https://www.smart2023.eu>. Instructions will be provided on the website.

PROCEEDINGS

A book of abstracts will be available upon registration. The Symposium Proceedings will be distributed at the

conference. Paper proceedings will be also available electronically.

SPECIAL ISSUES

Selected papers may be published in the *Journal of Vibration Control* subject to the standard review procedures of the Journal.

SCIENTIFIC PROGRAM - TOPICS

Materials: Active or field dependent materials, shape memory alloys, ferroelectrics & piezoelectrics, electroactive polymers, electrostrictive and magnetostrictive materials, electrorheological and magnetorheological fluids, multifunctional materials, smart composites, smart textiles, nano-reinforced, biomimetic, optic, characterization, etc.

Smart structures: Fundamentals, concepts, design, modelling, simulation, testing, etc.

Smart systems: Nano, micro, mechatronics, robotics, structural solutions, automation, integration, etc.

Structural Control: Active/semi-active vibration control, semi-active hybrid damping, active noise control, sensors and actuators, shape and position control, morphing, nano/microstructures and systems, etc.

Health monitoring: Sensor/actuator networks, vibration SHM, guided wave SHM, wireless communication, etc.

Energy Harvesting: Vibration EH, nonlinear EH, piezoelectric-based EH, thermal EH, etc.

Tools and Methodologies: Coupled-field mechanics, modelling, homogenization, numerical methods, structural integration of sensors and actuators, control methodologies, integrated system design, bioinspiration and biomimetics, embodying intelligence, etc.

Manufacturing technology: Bonding, embedding, connection, additive, 3D/4D printing, painting, smart manufacturing, etc.

Applications: Aerospace, mechanical, automotive and transportation, renewable energy, civil, sustainable buildings, medical and bioengineering, etc.



Nafpaktos https://commons.wikimedia.org/wiki/File:Naupacte_port.jpg

CONFERENCE CHAIR

- Prof. Dimitris Saravanos, University of Patras, Greece
- Prof. Ayech Benjeddou, ISAE-SUPMECA & SUA-UTC ROBERVAL, France

LOCAL ORGANIZING COMMITTEE

- Dr. T. Theodosiou, University of Thessaly, Greece
- Dr. N. Chrysochoidis, University of Patras, Greece
- Dr. T. Loutas, University of Patras, Greece
- Dr. G. Sakellariou, University of Patras, Greece
- Prof. G. Stavroulakis, Technical University of Crete, Greece
- Dr. D. Varelis, HAFA, Greece

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- N. Mechbal, Arts et Métiers - Ensam, France
- W. Ostachowicz, Polish Academy of Sciences, Poland
- O. Polit, Université Paris Nanterre, France
- J. L. Perez Aparicio, University of Valencia, Spain
- J. Rodellar, Universitat Politècnica de Catalunya, Spain
- D. Saravanos, University of Patras, Greece

REGISTRATION

You may register online at <http://www.smart2023.eu>

Conference Fees:

Type	Early	Late
Full	€ 600	€ 700
Student	€ 400	€ 450
Companion*	€ 100	€ 150

**Includes admission to all social activities.*

SOCIAL ACTIVITIES

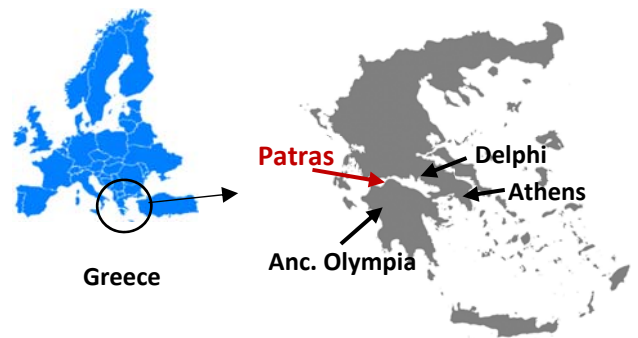
Welcome cocktail • Tour to Ancient Olympia • Visit to Archeological Museum • Conference Dinner

VENUE

Conference and Cultural Center

University of Patras, Patras, Greece

<http://www.confer.upatras.gr/>



CONTACT

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<https://www.smart2023.eu>

