

## Venue

Central Library, Polytechnic Univ. of Timisoara (UPT),  
Romania & online  
Bulevardul Vasile Parvan 2, Timișoara, Romania  
([Google map](#)), <http://library.upt.ro/>



## Conference Fees

Participation in the conference is free!

Conference proceedings, coffee breaks and lunches are included! A limited number of places is available!

## Deadlines

Registration & submission of abstracts:	20 <sup>th</sup> February 2023
Confirmation to Authors:	25 <sup>th</sup> February 2023
Preliminary Program:	04 <sup>th</sup> March 2023
Submission of full-length papers:	30 <sup>th</sup> April 2023

## Conference chairmen:

**Prof. Roberto Brighenti** - Univ. of Parma, Italy  
**Prof. Liviu Marsavina** - Polytechnic Univ. of Timisoara, Romania  
**Prof. Aleksandar Sedmak** - Univ. of Belgrade, Serbia  
**Prof. Lubos Nahlik** - Institute of Physics of Materials, Czech Academy of Sciences, Brno, Czech Republic  
**Prof. Filippo Berto** - Norwegian University of Science and Technology, Trondheim, Norway

**SIRAMM**  
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H2020-WIDESPREAD-2018, Grant No. 857124



# International Conference on **Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing**

# SIRAMM23

**Central Library, Polytechnic Univ. Timisoara**

Timisoara, Romania, 8<sup>th</sup> -11<sup>th</sup> March 2023

Organized by



*the conference will be held in presence & online*

## About The Conference

The conference on **Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing (SIRAMM23)** to be held in Timisoara, 8<sup>th</sup> -11<sup>th</sup> March 2023, is the final event of the European Twinning Project **SIRAMM**, funded by the European Union's Horizon 2020, H2020-WIDESPREAD-2018-03, under the grant agreement No. 857124.

The general aim of the conference is to promote international collaboration and share the current knowledge on the structural integrity of additively manufactured materials and the related disciplines. Of particular interest is the understanding of the role of the AM printing conditions and parameters on the final reliability and safety of AM materials, especially those to be used in load bearing applications. The conference is open to any contribution addressing the problem of characterizing AM materials for traditional as well as for advanced applications.

Presentations addressing the following topics are particularly welcome:

- Structural integrity assessment of AM components
- Mechanical and fracture testing of AM materials
- Fatigue, durability, and reliability of AM materials
- AM and 3D printing advanced technologies
- Simulation of AM processes
- Design of AM parts & process optimization
- Theoretical and numerical models for AM materials
- Advanced AM materials and structures
- Composite AM materials

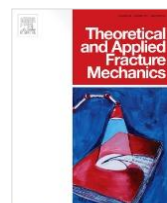
All materials are concerned, particularly: metals and alloys, ceramics, polymers, gel, biomaterials, composites, sintered materials.

## Conference Proceedings

Conference Proceedings will be published in a dedicated issue of the open access Journal

[Procedia Structural Integrity](#) (Elsevier)

Authors of selected presentations will be invited to submit their papers to the Special Issue "*Fracture and Additively Manufactured Materials*" of the Journal [Theoretical and Applied Fracture Mechanics](#) (Elsevier, IF 4.374)



Authors of presentations devoted to AM in healthcare, will be invited to submit their papers to the Special Issue "[3D Bioprinting for Personalized Medicine](#)", [Bioengineering](#) (MDPI, IF 5.046)



## Plenary lectures

- Prof. Sara Bagherifard** (Polytechnic of Milan - Italy)  
*Surface post-processing of Additive Manufactured metallic materials for enhanced performance*
- Prof. Katia Bertoldi** (Harvard Univ. - USA)  
*On the inverse design of flexible mechanical metamaterials*
- Prof. Noy Cohen** (Technion, Israel Institute of Technology - Israel)  
*Design of 3D-printed lattice materials and shape-morphing structures*
- Prof. Giulia Scalet** (Univ. of Pavia - Italy)  
*Programmable materials and 4D printing: advanced modeling and applications*
- Prof. Geert de Schutter** (Ghent Univ. - Belgium)  
*Active rheology control for additive manufacturing of concrete structures*
- Prof. Vadim Silberschmidt** (Loughborough Univ. - U.K.)  
*3D-printed polymers for biomedical applications*
- Prof. Luca Susmel** (Univ. of Sheffield - U.K.)  
*The critical distance concept to perform static and fatigue assessment of notched AM polymers*
- Prof. Jan Torgersen** (TU Munich, Germany)  
*Upscaled architected carbon and its potential in engineering applications*

## Scientific Committee

- S. Galatanu, Polytechnic Univ. of Timisoara, Romania  
C. Gao, Norwegian Technical Univ. of Technology, Norway  
A. Grbovic, University of Belgrade, Serbia  
E. Linul, Polytechnic Univ. of Timisoara, Romania  
M. Milosevic, University of Belgrade, Serbia  
L. Nahlik, Institute of Physics of Materials Brno, Czech Republic  
J. Razavi, Norwegian Technical Univ. of Technology, Norway  
A. Sedmak, University of Belgrade, Serbia  
A. Spagnoli, University of Parma, Italy  
D.I. Stoia, Polytechnic Univ. of Timisoara, Romania

## Accommodation

In Timisoara there are plenty of possibilities for accommodation.

Please refer to <http://hoteltimisoara.ro/> for more info.

Affordable accommodation are provided by the UPT hotels:

- [Casa Casa Politehnicii 1](#), [Casa Casa Politehnicii 2](#)
- [Hotel Perla](#)

## Registration

For registration & info please send an email either to:

Prof. Roberto Brighenti: [brigh@unipr.it](mailto:brigh@unipr.it)

or to the SIRAMM staff: [SIRAMM.Twin@gmail.com](mailto:SIRAMM.Twin@gmail.com)