

NEWSLETTER 06

H2020-WIDESPREAD-2018, Project No. 857124


March 2023

Main events

3rd Winter School, Trends on Additive Manufacturing for Engineering Applications

Faculty of Mechanical Engineering, University of Belgrade & On-line, 5th - 9th February 2023

⇒ Program:

	Feb. 5 th Sunday		Feb. 6 th Monday	Feb. 7 th Tuesday	Feb. 8 th Wednesday	Feb. 9 th Thursday	
		9.00 – 9.30	1st lecture (UBG & online) Prof. Liviu Marsavina UPT, Timisoara, Romania <i>Presentation of the SIRAMM project</i>				
		9.30 – 10.30	2nd lecture (online) Dr. Giovanni Rizza Polytechnic of Turin, Italy <i>"Additive manufacturing for industrial components: technologies, design and future perspective"</i>	6th lecture (UBG & online) Prof. Roberto Brighenti Univ. of Parma, Italy <i>"Modeling of additive manufacturing processes: strategies and challenges"</i>	10th lecture (online) Prof. Chao Gao NTNU, Trondheim, Norway <i>"Introduction to structural integrity of additive manufactured polymer component"</i>	Practical session 3 (UBG & online) Aleksa Milovanovic Univ. of Belgrade, Serbia <i>Practical session on AM</i>	
		10.30 – 11.00	Break (UBG)	Break (UBG)	Break (UBG)	Break (UBG)	
		11.00 – 12.00	3rd lecture (UBG & online) Prof. Kozak Dražan Univ. of Slavonki Brod, Croatia Prof. Gubeljak Nenad University of Maribor, Slovenia <i>"How to optimise the geometry of 3D printed lattice structures?"</i>	7th lecture (UBG & online) Prof. Silviu Vert UPT, Timisoara, Romania <i>"Open science"</i>	11th lecture (UBG & online) Prof. Snezana Kirin Prof. Aleksandar Sedmak Univ. of Belgrade, Serbia <i>"Statistical analysis of fracture static testing of AMM"</i>	Discussion session (UBG & online) <i>Research, future perspectives and international collaborations on AM in engineering</i>	
		12.00 – 13.00	4th lecture (UBG & online) Prof. Aleksandar Grbovic Univ. of Belgrade, Serbia <i>"Fatigue crack growth simulation by xFEM"</i>	8th lecture (UBG & online) Prof. Dan Stoia UPT, Timisoara, Romania <i>"Mechanical properties of components obtained through SLS"</i>	12th lecture (UBG & online) Prof. Toni Ivanov Univ. of Belgrade, Serbia <i>"Application of additive manufacturing in Aeronautical Engineering"</i>	Final exam (only in presence at UBG) Final written evaluation test	
		13.00 – 15.00	Lunch	Lunch	Lunch	Lunch	
		14.30 – 16.30	Welcome reception & registration (UBG)	5th lecture (UBG & online) Dr. Francesco Soncini 3DPR, Parma, Italy <i>"Production Efficiency in SLS additive manufacturing"</i>	9th lecture (UBG & online) Dr. S. Tavernini Univ. of Parma, Italy <i>"How to define impact in European projects: pre-award and post-award definition and implementation"</i>	Practical session 1 (UBG & online) Prof. Goran Miladenovic Univ. of Belgrade, Serbia <i>Practical session on AM</i>	Closing of the winter School (UBG & online)
		16.30 – 17.00	Opening of the winter School (UBG & online):	Presentation of some participants' backgrounds and current activities (UBG & online)	Presentation of some participants' backgrounds and current activities (UBG & online)	Practical session 2 (UBG & online) Isaak Trajkovic Univ. of Belgrade, Serbia <i>Practical session on AM</i>	

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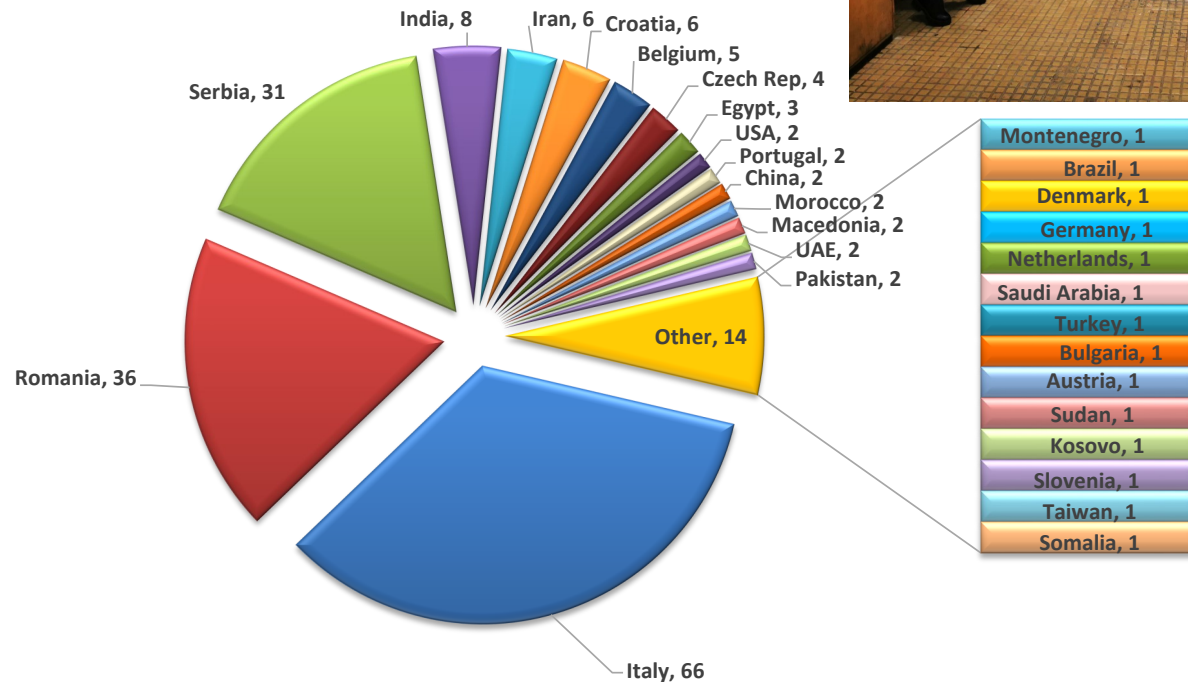
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3rd Winter School, Trends on Additive Manufacturing for Engineering Applications
 Faculty of Mechanical Engineering, University of Belgrade & On-line, 5 - 9 February 2023

- ⇒ 12 lectures
- ⇒ 3 practical sessions @ Univ. of Belgrade
- ⇒ 2 PhD presentation sessions
- ⇒ Participants: 193 participants from 30 countries



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Main events

International Conference on *Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing* - SIRAMM23

UPT Central Library, Timisoara, Romania & On-line, 8th - 11th March 2023

⇒ 8 keynote lectures:

1. **Active rheology control for additive manufacturing of concrete structures**,
Prof. Geert de Schutter - Ghent Univ., Belgium
2. **Design of 3D-printed lattice materials and shape-morphing structures**
Prof. Noy Cohen - Technion, Israel Institute of Technology, Haifa, Israel
3. **Surface post-processing of Additive Manufactured metallic materials for enhanced performance**
Prof. Sara Bagherifard - Polytechnic of Milan, Italy
4. **Programmable materials and 4D printing: advanced modeling and applications**
Prof. Giulia Scalet - Univ. of Pavia - Italy
5. **On the inverse design of flexible mechanical metamaterials**
Prof. Katia Bertoldi - Harvard University, Boston, MA, USA
6. **3D-printed polymers for biomedical application**
Prof. Vadim Silberschmidt - Loughborough Univ., U.K.
7. **The critical distance concept to perform static and fatigue assessment of notched additively manufactured polymer**
Prof. Luca Susmel - Univ. of Sheffield, U.K.
8. **Upscaled architected carbon and its potential in engineering applications**
Prof. Jan Torgersen - TU Munich, Germany

⇒ 9 sessions with 67 presentations:

Characterization of AM polymer-based materials 1 & 2

Characterization of AM metallic materials

Modeling and simulation of AM materials and processes

Characterization of AM metallic materials and composites 1 & 2

AM in bio-related applications, health, and medicine

Applications & advancements in AM materials and structures

⇒ 177 participants from 23 countries



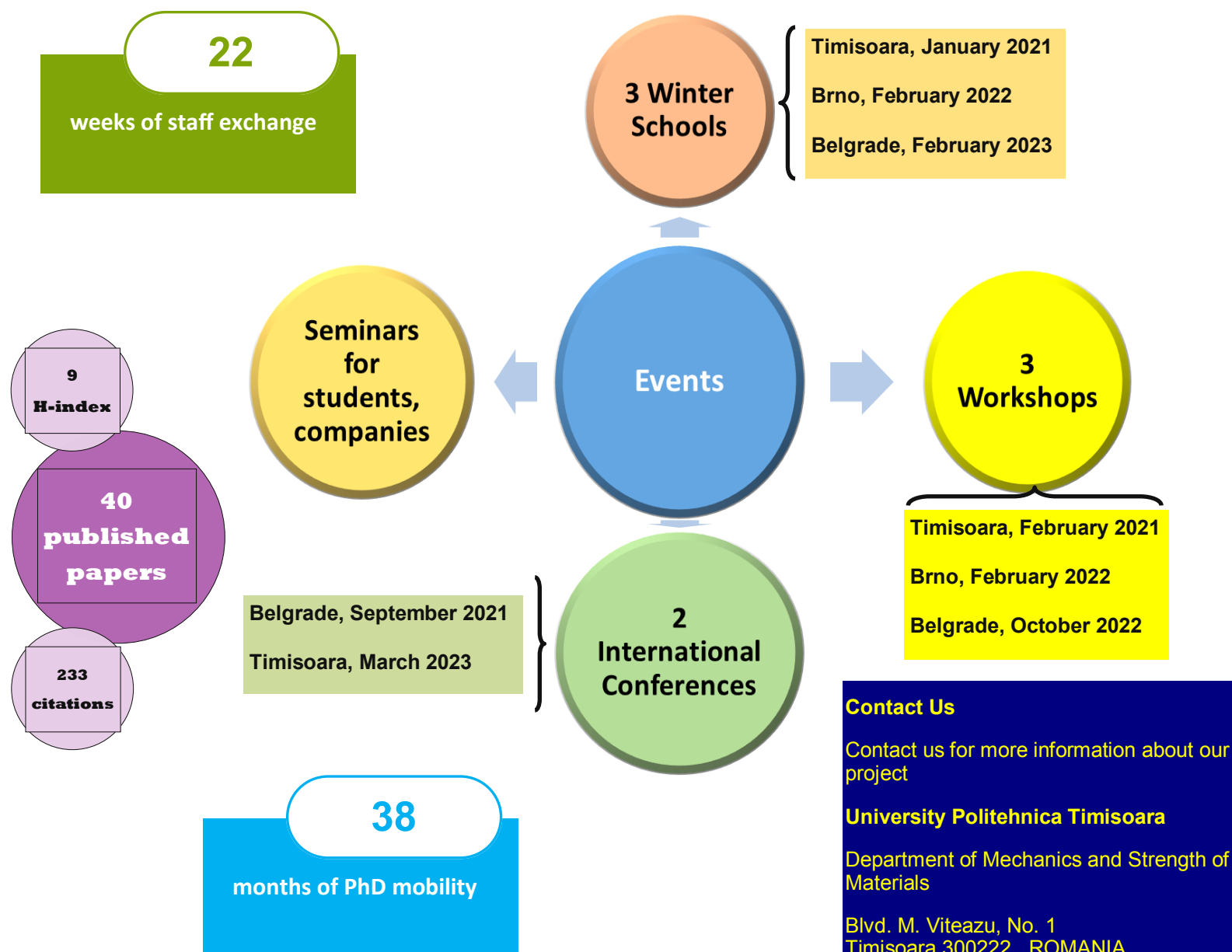
Timisoara, 8th March 2023

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SIRAMM at a glance



Contact Us

Contact us for more information about our project

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More information about future events on:

<http://www.sirammm.unipr.it>

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