



# WCMNM 2018

## World Congress on Micro and Nano Manufacturing

Jointly organised by the 4M Association, the International Institute for Micro Manufacturing (I2M2) and the International Forum on Micro Manufacturing (IFMM)

**Conference Chair:** Joško Valentinčič, University of Ljubljana, Slovenia

**Conference Co-Chairs:** Stefan Dimov, University of Birmingham, UK  
Martin Byung-Guk Jun, Purdue University, USA  
Kuniaki Dohda, Northwestern University, USA



**18<sup>th</sup>-20<sup>th</sup> September 2018**

**Portorož, Slovenia**

**Co-Organised** by the University of Ljubljana, 4M Association, IFMM, I2M2 and University of Birmingham

University of Ljubljana



<http://www.4m-association.org/conference/2018>

## Themes

Authors are welcomed to submit papers that present original research and development in processes and process chains for multi-material micro and nano manufacture, in particular but not limited to:

- ❖ Micro fabrication technologies, process chains and process characterisation
- ❖ Novel product designs, micro-assembly technologies and micro-handling
- ❖ Surface engineering and interface nanotechnology
- ❖ Process modelling and simulation
- ❖ Processing and characterisation of smart materials, multifunctional materials, nanomaterials and material related issues in micro and nano scale
- ❖ Micro and nano additive manufacturing technologies
- ❖ Micro and desktop factory concepts, systems, components and modules
- ❖ On-line monitoring and inspection systems/methods
- ❖ Standardization in micro manufacturing and micro factories
- ❖ Applications of micro and nano technologies: microreactor technologies, microsensors and actuators

These topics represent the intended content of the WCMNM 2018 thematic sessions, to which the authors are invited to submit papers.

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## Invited Speakers:

- ❖ **Professor Ehsan Toyserkani**, University of Waterloo, Canada

*Research Interests:* Additive Manufacturing, Monitoring and Closed-loop Control of Additive Manufacturing, Laser Material Processing, Mechatronics Design, Bio-additive Manufacturing & Additive Manufacturing of Smart Structures with Embedded Optical Sensors.

- ❖ **Dr. Ita Junkar**, Jožef Stefan Institute, Slovenia

*Research Interests:* Biomaterials, Surface Topography, Surface Chemistry, Surface Treatment & Orthopaedics.

- ❖ **Professor Harald Giessen**, University of Stuttgart, Germany

*Research Interests:* Additive Manufacturing, Micro and Nano Optics, Optics' Design, Nanoplasmonics, Metamaterials & Ultrafast Laser Sources.

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## Submission of Full Papers (4 pages)

- ❖ **Submission site OPEN, Deadline: 23<sup>rd</sup> of March 2018**
- ❖ **Submission site:** <https://conf.papercept.net/conferences/scripts/start.pl>

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## Paper Review

To ensure a high-quality Conference all papers will be reviewed by the congress' Scientific Committee under the leadership of the Scientific Chairs: **Irene Fassi** (ITIA-CNR, Italy), **Tohru Sasaki** (University of Toyama, Japan) and **Samuel Bigot** (Cardiff University, UK).

## Scientific Committee

Annoni, Massimiliano  
Attanasio, Aldo  
Basile, Vito  
Bissacco, Giuliano  
Bordatchev, Evgueni  
Bruschi, Stefania  
Cheng, Kai  
Chung, Chunhui  
D'Urso, Gianluca  
Dong, Xianghuai

Korkolis, Yannis  
Leach, Richard  
Lee, Antony H. C.  
LI, HSIN-CHUNG  
Li, Kuan-Ming  
Li, Yong  
Lu, Ming-Chyuan  
Lucchetta, Giovanni  
Mahayotsanun, Numpon  
Marumo, Yasuo

Quintana, Iban  
Rajurkar, K.P  
Ravasio, Chiara  
Ruggeri, Serena  
Saleh, Tanveer  
Sasaki, Tohru  
Singh, Ramesh  
song, xu  
Subbiah, Sathyan  
Surace, Rossella

EHMANN, KORNEL  
Elkaseer, Ahmed  
FILLON, BERTRAND  
Fu, Ming Wang  
Geng, Yanquan  
Guo, Ping  
Hansen, Hans Noergaard  
Hanumaiah, Naga  
Jun, Martin Byung-Guk  
Kapoor, Shiv G.

Mativenga, Paul  
Matsumura, Takashi  
Mendibil, Xabier  
Modica, Francesco  
Nagahanumaiah, N  
Natsu, Wataru  
Ngaile, Gracious  
Parenti, Paolo  
Pham, Duc  
Pugin, Raphaël

Tosello, Guido  
Wang, J.-J. Junz  
Whiteside, Ben  
Wiens, Gloria  
Xu, Zongwei  
Yan, Jiwang  
Yan, Yongda  
Zhao, Wansheng  
Rebaioli, Lara  
Velten, Thomas

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#### Important Dates:

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|--|--------------------------------------|
| ❖ Submission <b>deadline for full papers:</b>      | <b>23<sup>rd</sup> of March 2018</b> |
| ❖ Feedback from the peer review to authors:        | 15 <sup>th</sup> of May 2018         |
| ❖ Submission deadline of revised final paper:      | 5 <sup>th</sup> of June 2018         |
| ❖ Notification of acceptance in Final Publication: | 25 <sup>th</sup> of June 2018        |
| ❖ Authors Final Registration:                      | 4 <sup>th</sup> of July 2018         |
| ❖ Public Final Registration:                       | 20 <sup>th</sup> of August 2018      |

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#### Venue

Slovenia is a small country on the sunny side of Alps. Foreigners say that Slovenia is a land of countless attractions, a country that surprises you at every step. This small corner of Europe brings together the picturesque characteristics of the Alpine, Karst, Pannonian and Mediterranean worlds. The congress will be held at the **Remisens Hotel Metropol** in Portorož.

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#### Proceedings:

All final papers accepted for presentation will be included in the WCMNM 2018 Proceedings to be published by Research Publishing Services. Selected papers may be considered for publication in Special Issues of *Micromachines* and *Journal of Micro and Nano Manufacturing*.



#### 4M Association Officer

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