



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



18th-20th 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.

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.

Submission of Full Papers (4 pages)

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

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

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

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.
Korkolis, Yannis

Matsumura, Takashi
Mendibil, Xabier
Meng, Yonggang
Modica, Francesco
Nagahanumaiah, N
Natsu, Wataru
Ngaile, Gracious
Parenti, Paolo
Park, Simon
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

Important Dates:

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

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.

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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