





WCMNM 2022

5th World Congress on Micro and Nano Manufacturing

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

Congress Chair: Sylvie Castagne, KU Leuven, Belgium

Congress Co-Chairs: Stefan Dimov, University of Birmingham, UK Lawrence Kulinsky, University of California, Irvine, USA Kuniaki Dohda, Northwestern University, USA Dominiek Reynaerts, KU Leuven, Belgium

Scientific Committee Chairs: Pierre Vella, University of Malta (4M) Ming-Chyuan Lu, National Chung Hsing University, Taiwan (I2M2) Tohru Sasaki, University of Toyama, Japan (IFMM)



19th-22nd September 2022 Leuven, Belgium

Co-Organised by KU Leuven, 4M Association, IFMM, I2M2



https://www.4m-association.org/conference/WCMNM2022/wcmnm2022.html

Themes

Papers are sought to address theoretical and applied research issues related to manufacture, assembly and metrology for components and systems with nano/micro/meso-scale features and dimensions.

Topics to be covered, but not limited to:

- Micro fabrication technologies, process chains and process characterization
- Miniaturization of machines and equipment; positioning, motion generation, sensors systems, and control
- Novel product designs, micro-assembly technologies and micro-handling
- Surface engineering and interface nanotechnology
- Process modelling and simulation
- Processing and characterization of smart materials, energy materials, metamaterials and nanomaterials
- Micro and nano additive, subtractive, joining, and hybrid manufacturing technologies
- Micro and desktop factory concepts, systems, components and modules
- On-line monitoring and inspection systems, and smart manufacturing
- Standardization in micro manufacturing and micro factories
- Applications of micro and nano technologies
- Emerging micro manufacturing methods and equipment, including those that bridge the nano- and macro- worlds
- Biomanufacturing and biomedical devices

These themes represent the intended content of the WCMNM 2022 thematic sessions, to which the authors are invited to submit papers.

Submission of Full Papers and Peer Review

We invite you to submit 4-page papers using the template provided on the conference website. Link for submission: <u>https://conf.papercept.net/conferences/scripts/start.pl</u>

All papers will be peer reviewed by members of the Scientific Committee under the leadership of the Scientific Committee Chairs. Submitted papers may be selected for oral or poster presentation. All oral and poster presentations will be included in the Conference Proceedings.

Important Dates

- Paper submission site opens:
- Submission deadline for full papers:
- Feedback from the peer review to authors:
- Submission deadline of revised final paper:
- Congress dates:

15th of January 2022 **30th of April 2022** 4th of June 2022 18th of June 2022 19th to 22nd of September 2022

Proceedings

All final papers will be included in the WCMNM 2022 Proceedings to be published by Research Publishing Services, in both hardcopies and electronic format (copyrights remain with the authors). In addition, selected papers will be invited for publication in micromanufacturing journals Special Issues.



4M Association Officer

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