



# WCMNM 2022

## 5<sup>th</sup> 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**)

**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)



**19<sup>th</sup>-22<sup>nd</sup> 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.

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## 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: <https://conf.papercept.net/conferences/scripts/start.pl>

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.

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## Important Dates

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| ❖ Paper submission site opens:                | 15 <sup>th</sup> of January 2022                       |
| ❖ Submission <b>deadline for full papers:</b> | <b>30<sup>th</sup> of April 2022</b>                   |
| ❖ Feedback from the peer review to authors:   | 4 <sup>th</sup> of June 2022                           |
| ❖ Submission deadline of revised final paper: | 18 <sup>th</sup> of June 2022                          |
| ❖ Congress dates:                             | 19 <sup>th</sup> to 22 <sup>nd</sup> of September 2022 |

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## 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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