

# The First Announcement and Call for Papers

The 10th International Conference  
on Leading Edge Manufacturing in 21st Century (LEM21)

**November 14 - 18, 2021**

Kitakyushu , Fukuoka, Japan

**Venue | Kitakyushu International Conference Center**

Sponsored by :

The Japan Society of Mechanical Engineers (JSME)

Organized by :

Manufacturing and Machine Tool Division &  
Manufacturing Systems Division



We are pleased to announce that the International Conference on Leading Edge Manufacturing in 21st Century (LEM21) will be held in Kitakyushu, which is "SDGs Future City". For the next generation of humanity in unpredictable societies such as the high frequency of natural disasters and the spread of the Covid-19 virus, researchers and engineers will be able to discuss modern and future topics related to new production technologies and various manufacturing technologies. We offer the opportunity to discuss, exchange, publish and deepen ideas, methods and results.

## Organized Sessions:

- |                                              |                                                          |
|----------------------------------------------|----------------------------------------------------------|
| OS01: Advanced machine tool                  | OS09: Electro-physical and chemical processes            |
| OS02: Evaluation of machine tool performance | OS10: Nano/Micro machining and structuring technologies  |
| OS03: Digital manufacturing (CAD,CAM)        | OS11: Surface and tribology                              |
| OS04: Mechatronics and mechanical elements   | OS12: Nano/Micro measurement and intelligent instruments |
| OS05: Cutting technology                     | OS13: Additive manufacturing                             |
| OS06: Gear manufacturing technology          | OS14: Digital manufacturing                              |
| OS07: Grinding technology                    | OS15: Manufacturing systems, supply chain and scheduling |
| OS08: Finishing technology                   | OS16: Smart Manufacturing (IoT, AI, CPPS)                |

## Conference Style:

LEM21 Kitakyushu is performed in the Hybrid-Flexible (HyFlex) style of virtual conference , in-person conference and on-line conference. However, the participation in a local conference hall will restrict the entrance number for Covid-19 countermeasure.

It will be held by virtual conference from the 2nd day till the 3rd day. The talks by the finalists elected as eminent papers are performed at the international conference hall (or on-line) on the 4th day of the conference. It is encouraged that finalists participate in the conference at the local conference hall.

Other participants are restricted to participation on line. Only those who are permitted will participate in the international conference hall.

The talks will become available at any time during the conference as on-demand videos.

## About Conference Awards:

Several awards are granted to eminent papers.

**CONFERENCE BEST PAPER AWARDS:** Awarded for outstanding papers of 4 pages or more contributed to LEM21.

**YOUNG RESEARCHER AWARD:** The first author of a prominent paper, awarded to young presenters up to the age of 26 as of April 2022.



**YOUNG FELLOW AWARD:** Among the candidate papers for the Young Researcher Award, the most prominent papers with 4 pages or more will be awarded.

These awards will be commended in the award ceremony of the 4th day of the Conference.

## Special Issue to International Journals:

As for the eminent paper in all the presented papers, contributing recommendation is performed to the special issue of JAMDSM. (Journal of Advanced Mechanical Design, Systems, published by JSME).

We also recommend contributions to the IJAT special issue. (International Journal of Automation Technology, published by Fuji Technology Press).

## Important dates:

Deadline of paper application with abstract:	March 31, 2021
Notification of tentative acceptance based on abstract:	April 20, 2021
Deadline of camera - ready manuscript submission:	May 31, 2021
Notification of paper acceptance:	June 30, 2021
Deadline of final camera - ready manuscript:	July 31, 2021

## Abstract submission:

An abstract of about 400 words in English in one page of A4 size is required for every paper. Please download the abstract submission form (in Microsoft Excel format) from the conference website. Fill it out and submit it by e - mail to:

[lem21\\_mmt@jsme.or.jp](mailto:lem21_mmt@jsme.or.jp) (LEM21 Program Committee)

The submission deadline is: **March 31, 2021**.

## Conference Committee:

General Chair:	Hiroyuki Narahara, Professor, Kyushu Institute of Technology
Conference Co - chairs:	Atsushi Matsubara, Professor, Kyoto University Yasushi Umeda, The University of Tokyo Makoto Fujishima, DMG Mori Co., Ltd. Keisuke Suzuki, Professor, Kyushu Institute of Technology
Program Chairs:	Gao Feng, Professor, Nishinippon Institute of Technology Terutake Hayashi, Assoc. Prof., Kyushu University Hiroshi Koresawa, Assoc. Prof., Kyushu Institute of Technology
Secretariats:	Naoki Mori, Professor, Kyushu Institute of Technology Koichi Kikkawa, Assoc. Prof., Kyushu Institute of Technology
Executing Committee:	Teruyuki ASAO, Professor, National Institute of Technology, Kitakyushu College Yoshifumi AMAMOTO, Assoc. Prof., Fukuoka Institute of Technology Akihisa KUBOTA, Assoc. Prof., Kumamoto University Hiroshi MURAKAMI, Assoc. Prof., The University of Kitakyushu Sunao MURAKAMI, Assoc. Prof., Kyushu Institute of Technology Khajorurungruang PANART, Assoc. Prof., Kyushu Institute of Technology Hiroki SHIMIZU, Assoc. Prof., Kyushu Institute of Technology

## Venue:

Kitakyushu Convention Center

Located 2-minute walk from JR Kokura station. <https://convention-a.jp/kokusai-kaigi/>

## General contact:

Email: [lem21\\_mmt@jsme.or.jp](mailto:lem21_mmt@jsme.or.jp)

## Conference webpage:

<http://www.jsme.or.jp/mmt/lem21Kitakyushu/>

