



# The 2021 International Workshop on Intelligentized Welding Manufacturing (IWIWM'2021)

Dec. 28-30, 2021, Shanghai, China & Singapore

Oct. 20, 2021

## Call for Papers

In recent years, Intelligent Manufacturing, characterized by the extensive application of artificial intelligence(AI), has become a trend of development in the field of advanced manufacturing. The intelligentized welding technology has deservedly become one of the highly active directions of intelligent manufacturing. The intelligentized welding manufacturing (IWM) deals with complex information, networking and intelligent technology during the whole process of welding product manufacturing, including a wide range of welding materials, structures, technics, processes, equipment and systems, products and market. Therefore, it is imperative to research and develop intelligentized manufacturing welding technology.

It is under such a background, the Robotics & Automation Committee of Chinese Welding Society (CWS), co-sponsored by other academic institutions of the CWS, successfully launched and held the "2017 International Workshop on Intelligentized Welding Manufacturing (IWIWM '2017)" in Shanghai, on June 23-25, 2017. AS a series of IWIWM conferences every two years, the second IWIWM Conference, **IWIWM2019-SH** was held on Nov.6-8 in Shanghai, China and the **IWIWM2019-LEX** on Nov.8-10 in Lexington, Kentucky, USA, separately. This year, the "2021 International Workshop on Intelligentized Welding Manufacturing-IWIWM '2021" will be organized by **Shanghai Jiao Tong University (SJTU)**, China and **Nanyang Technological University(NTU)**, Singapore.

The IWIWM '2021 will provide an interactive forum for experts, scholars and professionals in the fields of intelligent welding manufacturing, robot welding technology and related applications. There will be world renowned experts and scholars to make keynote speech and round-table seminars. The IWIWM '2021 will bring together colleagues in the welding industry to discuss the hot spots and cutting-edge scientific issues and key technologies in the development of intelligent welding manufacturing. It is more targeted to guide and promote the robust development of welding intelligent manufacturing technology.

Another important topic of the IWIWM'2021 is the discussion of the strategy for the "TRANSACTIONS ON INTELLIGENT WELDING MANUFACTURING (TIWM)", which was launched by Springer in 2017, operation mechanism based on the IWIWM series, making it to be a flagship journal in the field of intelligentized welding manufacturing.

IWIWM2021 encourages the authors to submit the abstracts of the paper and will solicit high-quality papers to be published by peer review in the TIWM (see Annex TIWM). Please note to the authors: please copy the abstracts at the same time to the IWIWM'2021 secretariat: [rwlab21@sjtu.edu.cn](mailto:rwlab21@sjtu.edu.cn).

The IWIWM '2021 paper published by TIWM for submission to international literature index databases such as SCIE, ISI Proceedings, SCOPUS, Google Scholar and Springerlin. The scope of contributions for the IWIWM2021 is, but not limited to, the following:

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|---|--|
| S01: Scientific theory of intelligentized welding manufacturing | S02: Planning and optimizing of welding technics       |
| S03: Virtual & Digital welding manufacturing                    | S04: Sensing technologies for welding process          |
| S05: intelligent control of welding process and quality         | S06: Knowledge modelling of welding process            |
| S07: Intelligentized additive manufacturing (3D printing)       | S08: Intelligentized, digitalized welding equipments   |
| S09: Intelligentized robotic welding technologies               | S10: Tele and network welding technologies             |
| S11: Intelligentized welding workshop realization               | S12: Other related topics on intelligent manufacturing |

### Paper Submission:

The abstract of the paper shall be submitted to the IWIWM2021 secretariat by email. The author shall, according to the typesetting format requirements of the TRANSACTIONS ON INTELLIGENTIZED WELDING MANUFACTURING, and make the layout with the software SPLNPROC, and submit the full paper to the TIWM:

<https://ocs.springer.com/ocs/en/home/TIWM2017>. The Feature Article is generally not more than 25 pages, the Research Papers not exceed 16 pages, the Technical Notes 8 pages. The WORD file is required.

Please note the key dates in the following:

### Important Dates:

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|------------------------------------|------------------|
| Voluntary Submission of Abstracts: | Dec. 1, 2021     |
| Feedback of Abstracts:             | Dec. 15, 2021    |
| Full Papers Submitted in batches:  | ① Mar. 30, 2022; |
|                                    | ② Jun. 30, 2022  |

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