The 2025 International Workshop on Intelligentized Welding Manufacturing（IWIWM'2025）

December. 5-7, 2025, Guangzhou, CHINA

Aug.30, 2025

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. It has also been decided to organize a series of IWIWM conferences every two years to 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.

This year, we are organizing IWIWM'2025，i.e., it also is the fourth IWIWM Conference "**2025 International Workshop on Intelligentized Welding Manufacturing-IWIWM '2025"** will be organized by Robotics & Automation Committee of Chinese Welding Society （R&A CWS），South China University of Technology（SCUT），Shanghai Jiao Tong University (SJTU)，Nanyang Technological University（NTU） and International Society for Intelligent Manufacturing （ISIM） on Dec.5-7, 2025.

The IWIWM '2025 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.

Another important topic of the IWIWM'2025 is the discussion of the strategy for the "**TRANSACTIONS ON OF 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.

IWIWM2025 encourages the authors to submit the abstracts of the paper to be published by peer review in the TIWM (see Annex TIWM) Note to the authors: please copy the abstracts at the same time to the IWIWM'2025 secretariat: rwlab@sjtu.edu.cn.

The IWIWM '2025 paper published by TIWM will be recommended by Springer for submission to international literature index databases such as SCIE, ISI Proceedings, EI-Compendex, SCOPUS, Google Scholar and Springerlin. The scope of contributions for the IWIWM2025 is, but not limited to, the following:

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 IWIWM2025 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://rwlab.sjtu.edu.cn/tiwm/index.html , and the IWIWM'2025 secretariat: rwlab@sjtu.edu.cn . 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.

Important Dates:

Voluntary Submission of Abstracts: Oct. 30, 2025
Feedback of Abstracts: Nov. 30, 2025
TIWM Submission of Full Papers: Mar.30, 2026

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