The 2019 International Workshop
on Intelligentized Welding Manufacturing（IWIWM'2019-SH）

Nov. 6-14, 2019, Shanghai, CHINA & Lexington，USA

May. 26, 2019

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 plan to host the second IWIWM Conference on Nov.6-14, 2019, i.e., the "**2019 International Workshop on Intelligentized Welding Manufacturing-IWIWM '2019**" will be organized by Shanghai Jiao Tong University (SJTU) and University of Kentucky (UK). The **IWIWM '2019** will be divided into two parts, the **IWIWM2019-SH** will be held on Nov.6-8 in Shanghai, China and the **IWIWM2019-LEX** on Nov.8-10 in Lexington, Kentucky, Continuously divided into periods of time, and the delegates will also attend the 2019 Annual Conference of American Welding Society (AWS) and Exhibition on Nov.11-14 in Chicago.

The IWIWM '2019 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 IWICWM'2019 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.

IWIWM2019 encourages the authors to submit the abstracts of the paper for the AWS annual Conference in order to attend the AWS annual Conference and exhibition at the same time. Since the AWS annual Conference only receives abstracts of papers, the IWIWM '2019 will solicit high-quality papers that include AWS abstracts, to be published by peer review in the TIWM (see Annex TIWM) and in the **"Journal of Manufacturing Processes"(JPM)**，which is one of the Flagship journals of the Society of Manufacturing Engineers（SME）. Note to the authors: please copy the abstracts at the same time to the IWIWM'2019-SH secretariat: rwlab@sjtu.edu.cn.

The IWIWM '2019 paper published by TIWM and JMP 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 IWIWM2019 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 IWIWM2019 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.

The authors who wish to submit their papers to the JMP can refer to the **https://ees.elsevier.com/smejmp**/, to prepare manuscripts for the JMP. Please note the key dates in the following:

Important Dates:

Voluntary Submission of Abstracts:　　　　　　August 1, 2019
Feedback of Abstracts:　　　　　　August 15, 2019
TIWM Submission of Full Papers:　　　　　　September 30, 2019
JMP Special Issue Submission of Full Papers:　　December 1, 2019

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