



The 2017 International Workshop on Intelligentized Welding Manufacturing (IWIWM'2017)



Jun. 23-24, 2017, Shanghai, P. R. China

Dec. 25, 2016

Call for Papers

In recent years, the intelligent manufacturing has become a widely concerned trend of development. The intelligentized welding technology has naturally become one of the highly active research 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. Intelligentized methodology will play an important role in research, development, and application of the emerging additive manufacturing technology.

It is under such a background, the Robotics & Automation Committee of Chinese Welding Society (CWS), co-sponsored by other academic institutions of the Chinese Welding Association (CWA), Chinese Mechanical Engineering Society (CMES), successfully held a series International Conference on Robotic Welding, Intelligence and Automation (RWIA) every four years since 2002, such as the RWIA'2002, RWIA'2006, RWIA'2010 and RWIA'2014.

At present, according to the research and development of intelligent manufacturing demand, such as the Industry 4.0 and Made-in-China 2025, the Robotics & Automation Committee of CWS and other academic institutions have agreed to jointly sponsor *the 2017 International Workshop on Intelligentized Welding Manufacturing (IWIWM'2017)*, Jun. 23-24, 2017, Shanghai, P. R. China. The IWIWM will be planned as a serial International Conference to occur each another year. The upcoming IWIWM'2017 will be hosted by Shanghai Jiao Tong University and it happens also to occur at the same time with the 70th IIW annual Assembly & International Conference, i.e., IIW'2017, Jun. 25-30, 2017, Shanghai, P. R. China. The IWIWM'2017 will provide a platform for the experts, scholars, professional technical personnel, etc., in intelligent manufacturing, intelligentized welding technology and related application fields. The world renowned scholars and experts are invited to present the latest scientific and technology progress on the intelligentized welding manufacturing.

Another important topic at the IWIWM'2017 is the discussion about the operating mechanism and strategy of a new publication "TRANSACTIONS ON INTELLIGENT WELDING MANUFACTURING", to be published by Springer, aimed at further enhancing the international communications and collaboration of intelligentized welding manufacturing technology community.

The conference proceedings of the IWIWM'2017 in English will be formally published in the new series "TRANSACTIONS ON INTELLIGENT WELDING MANUFACTURING" by Springer Verlag and indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlin.

Topics of the IWIWM'2017 include but not limited to intelligent manufacturing technology for welding, intelligentized robotic welding technology and related advanced manufacturing technologies, as 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:

Authors should submit the manuscript of full paper **in English** to the IWIWM'2017 secretariat via the following Website or Email before the deadline of full-length paper submissions. The manuscript should be edited using the SPLNPROC1110 template. It is better to limit the full-length of Feature Article in 20 pages, Regular Research paper in 12 pages; and Technical Notes (short papers) in 8 pages. The cover page should contain: Paper title, Authors name, Affiliation, Address, Telephone number, Email address of corresponding author, Abstract, 3-5 keywords and the suggested technical area (e.g. S01:)

Important Dates:

Full-length Paper Submissions:	Apr. 30, 2017
Notification of Full Paper Acceptance:	May 25, 2017
Submission of Final Papers:	Jun. 20, 2017

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