2018 International Conference on Robotic Welding, Intelligence and Automation (RWIA'2018)/ The 12th Chinese Conference on Robotic Welding (CCRW'2018)

Dec. 7-10, 2018, Guangzhou, P. R. China

Sept. 20, 2017

Call for Papers

With the development of advanced manufacturing technology, robotic intelligentized welding, and intelligentized welding manufacturing have been key technologies in the manufacturing industry and present the development trends. Actually, nowadays, nearly half of the industry robots in service are welding robots. Teaching play-back robots in service, however, cannot meet the standards of quality, precision and efficiency of the high tech welding products due to the assembling error, the changes on welding environment and condition, the complexity of welding dynamics, the welding deformation and so on. Therefore, it is quite urgent to conduct the research works on the intelligentized robotic welding technology and then develop the new generation of the Intelligentized welding robots and systems which can preliminarily imitate the human welders' behavior.

It is under such a background that 2018 International Conference on Robotic Welding, Intelligence and Automation (RWIA'2018) and the 12th Chinese Conference on Robotic Welding (CCRW'2018) are organized. Both conferences will be hold in Guangzhou, China, Dec. 7 -10, 2018. Particularly, RWIA '2018 will be the 5th conference of the successive RWIA conferences which was first held in Shanghai, once four years from 2002. RWIA'2018 will provide a platform for the experts, scholars, professional technical personnel, etc, in Intelligentized robotic welding technology, intelligentized robots, intelligentized manufacturing and related application fields. The world renowned scholars and experts are invited to present the latest academic and technological reports. The famous robots companies will introduce their newly techniques on welding robots. And the application reports on welding robots and automatic techniques will also been presented.

The conference proceedings of the RWIA'2018 in English will be formally published in the new "TRANSACTIONS ON OF INTELLIGENT WELDING MANUFACTURING" by Springer Verlag and indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlin.

Topics of the RWIA'2018 include but not limited to: robotic welding, intelligentized welding technology, intelligentized robotic technology intelligence, automation and related advanced manufacturing technologies, as following:

S01:Robotic and Intelligentized welding manufacturing
S02: New type special welding robot technologies
S03: Planning and simulation of robotic welding
S04: Autonomous guiding and tracking of welding robots
S05: Quality control of robotic welding
S06: Welding technologies on tele robots and network robots
S07: Sensing technologies for welding process
S08: Knowledge extraction and intelligent control of welding process
S09: Robotic welding under special environment
S10: Applications of welding robots
S11: Intelligentized, digitalized and flexible welding equipments
S12: Intelligentized flexible welding manufacturing systems
S13: Special intelligentized robot technologies and its systems
S14:Intelligentized technologies for industrial robot
S15: Intelligentized technologies for industrial process
S16: Perception, planning and decision-making for mobile robots
S17: Other related topics on intelligentized manufacturing

Paper Submission:

Authors should submit the manuscript of full paper in English to the RWIA'2018 secretariat via the following Website or Email before the deadline of full-length paper submissions. The manuscript should be submitted in MS-WORD format and using the SPLNPROC in the attached to compose type. It is better to limit the full-length of Feature Article in 20 pages，Regular Research paper in 16 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:). The online submission website is https://ocs.springer.com/ocs/en/home/TIWM2017.

The qualified peer review papers will be divided into 4 issues published in "TRANSACTIONS ON INTELLIGENT WELDING MANUFACTURING" (TIWM) in 2018. Because the publication of the each issue of the TIWM is limited about in 15 papers, so the authors of intended contributions would be advised to submit papers according to the following dates，you may submit papers at any time during the period, so that your paper can be timely published in the TIWM.

Important Dates:

The submissions for the No.1 and No.2 issues	Nov. 30 and Mar. 01, 2017
The submissions for the No.3 and No.4 issues:	May 30 and Sep. 30, 2018
Submission of Final Papers for the last issue	Oct. 30, 2018

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Program Committee of RWIA'2018&CCRW'2018

Robotics & Automation Committee of CWS

The Organizations of RWIA '2018/CCRW '2018 is omitted here.