



2022 International Conference on Robotic Welding, Intelligence and Automation (RWIA'2022)/ The 14th Chinese Conference on Robotic Welding (CCRW'2022)

Dec. 16-18, 2022, Shanghai/Lanzhou, P. R. China

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 technical 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 2022 International Conference on Robotic Welding, Intelligence and Automation (RWIA'2022) and the 14th Chinese Conference on Robotic Welding (CCRW'2022) are organized. Both conferences will be held on Dec. 16 -18, 2022 via a Tencent Meeting or Voov Meeting, in Shanghai/Lanzhou, China. Particularly, RWIA '2022 will be the 7th conference of the successive RWIA conferences which was first held in Shanghai, once four years from 2002. RWIA'2022 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 be presented.

The conference proceedings of the RWIA'2022 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 SpringerLink.

Topics of the RWIA'2022 include but not limited to: robotic welding, intelligentized welding technology, intelligentized robotic technology intelligence, automation and related advanced manufacturing technologies, as following:

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| 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 equipment | S12: Intelligentized flexible welding manufacturing systems |
| S13: Special intelligentized robot technologies and its systems | S14: Intelligentized technologies for industrial robot |
| 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'2022 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 2 issues published in "TRANSACTIONS ON INTELLIGENT WELDING MANUFACTURING" (TIWM) in 2023. 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:

Submissions for TIWM V5 : Nov. 30, 2022

Submission of Final Papers for V5 N1: Jun. 30,2023

Submission of Final Papers for V5 N2: Sep. 30, 2023

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