



2024 International Conference on Robotic Welding, Intelligence and Automation (RWIA'2024)/ The 15th Chinese Conference on Robotic Welding (CCRW'2024)

Nov. 15-17, 2024, Shanghai, P. R. China

Jun. 20, 2024

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 2024 International Conference on Robotic Welding, Intelligence and Automation (RWIA'2024) and the 15th Chinese Conference on Robotic Welding (CCRW'2024) are organized. Both conferences will be held simultaneously online/offline via web video in Shanghai, China, Nov. 15 -17, 2024. The RWIA '2024 will be the 7th conference of the successive RWIA conferences which was first held in Shanghai, once four years from 2002, and the CCRW '2024 will be the 15th conference of the successive CCRW conferences which was first held in Harbin, every two years from 1996 . RWIA'2024/CCRW2024 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'2024 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'2024 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: Intelligentized robotic welding technologies | S02: Intelligentized robot systems for additive manufacturing |
| S03: Planning and simulation of robotic welding | S04: Autonomous guiding and tracking of welding robots |
| S05: Multi-information sensing and fusion for welding process | S06: Welding technologies on tele robots and network robots |
| S07: Knowledge extraction and modeling of welding process | S08: Monitoring of robotic welding process and system |
| S09: Welding defect detection and quality assessment | S10: Special intelligentized robot technologies and its systems |
| S11: Intelligentized, digitalized and flexible welding equipments | S12: Intelligentized technologies for industrial robot |
| S13: Intelligent Manufacturing Technology and Application Engineering | S14: Related topics in the application of AI technology |

Paper Submission:

Authors should submit the manuscript of full paper in English to the RWIA'2024 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 25 pages, Regular Research paper in 18 pages; Technical Notes (short papers) in 10 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 submission website is <https://rwlab.sjtu.edu.cn/RWIA2024/Home>.

The qualified peer review papers will be divided into 2 issues published in "TRANSACTIONS ON INTELLIGENT WELDING MANUFACTURING" (TIWM) in 2025. 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:

Submission of Abstract for the RWIA:

Aug. 30, 2024

The submissions for the No.1 issues:

Oct. 30, 2024

The submissions for the No.2 issues:

Dec. 30, 2024

Secretariat of RWIA'2024&CCRW'2024

Website: <https://rwlab.sjtu.edu.cn/RWIA2024/Home>

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