



2014 International Conference on Robotic Welding,
Intelligence and Automation (RWIA '2014)/
The 10th Chinese Conference on Robotic Welding (CCRW '2014)
Oct. 25-27, 2014, Shanghai, P. R. China

Apr. 20, 2014

Call for Papers

With the development of advanced manufacturing technology, robotic welding and intelligentized welding technologies have been key technologies in the equipment 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 2014 International Conference on Robotic Welding, Intelligence and Automation (RWIA'2014) and the 10th Chinese Conference on Robotic Welding (CCRW'2014) are organized. Both conferences will be hold in Shanghai, China, Oct. 25 -27, 2014. Particularly, RWIA '2014 will be the 4th conference of the successive RWIA conferences which was first held in Shanghai, once four years from 2002. RWIA'2014 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 in English will be formally published in the new series "Advances in Intelligent Systems and Computing"(<http://www.springer.com/series/11156>) by Springer Verlag and indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink, and partial papers will be recommended for publication in Journals,such as Industrial Robot, Sensor Review etc,which will be collected by SCI & EI. While the proceedings in Chinese will be published as a regular issue of *Journal of Shanghai Jiaotong University* and the high quality ones will be indexed by EI.

Topics 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: 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: Other intelligentized technologies for industrial robot |
| S15: Intelligentized technologies for industrial process | S16: Other related topics on robots, intelligence and automation |

Paper Submission:

Authors should submit the manuscript of full paper in English or Chinese to the congress secretariat via Email before the deadline of full-length paper submissions. It is better to limit the full-length paper in 4-6 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: Intelligentized robotic welding technologies) The document must be submitted in MS-WORD format. (**Electronic Edition Is Necessary.**)

Important Dates:

Full-length Paper Submissions:	Jun. 30, 2014
Notification of Full-length Paper Acceptance:	Jul.. 30, 2014
Submission of Final Papers:	Aug. 30, 2014

Program Committee of RWIA'2014&CCRW'2014
Robotics & Automation Committee of CWS

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Official Website: http://rwlab.sjtu.edu.cn/e_rwia2014/index.html

The Organizations of RWIA '2014/CCRW '2014

Host:

Shanghai Jiaotong University (SJTU)
Harbin Institute of Technology (HIT)

Organizers:

Robotics & Automation Committee of CWS
Automobile Committee of CWA
Melted Welding Committee of CWS
Production & Application Committee of CWS
Chinese Welding Society (CWS)

Co-Organizers:

Committee of National Natural Science Foundation of China
Chinese Mechanical Engineering Society (CMES)
Chinese Welding Association (CWA)
Shanghai Welding Society (SWS)
State Key Laboratory of Advanced Welding and Joining (HIT)
State Key Laboratory of Robotics and System (HIT)
Shanghai Key Laboratory of MLMM (SJTU)

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