Introduction of **Transactions on Intelligent Welding Manufacturing (TIWM)**

Transactions on Intelligent Welding Manufacturing (TIWM) is authorized by Springer, http://www.springer.com/series/15698，for periodical publication of research papers and monograph on intelligentized welding manufacturing (IWM). By editing of Professor Shan-ben CHEN, Professor Yu-ming ZHANG and Professor Zhi-li FENG, the TIWM aims to echo to the more and more request from the academic and engineering community.

The TIWM is a peer-reviewed research paper and book series which aims to present the latest global research findings and cutting-edge developments in intelligent welding technology which includes complex information, networking and intelligent technology throughout the entire welding manufacturing process, and concepts integrating the areas of welding materials, structures, techniques, processing, equipment, products and market analysis.

The TIWM is a multidisciplinary and interdisciplinary series publication focusing on the development of intelligent modelling, controlling, monitoring, and evaluating and optimizing the manufacturing processes related to joining technology. It also provides a forum for scholars and engineers interested in recent research in artificial intelligence, control, robotics, mechatronics and information science applied to industrial and manufacturing processes, especially in welding processes.

The periodical series of research papers in the TIWM features titles on new intelligentized methodologies and developments, case studies and surveys, as well as tutorials on topics related to:

- Scientific theory of intelligentized welding manufacturing
- Planning and optimizing of welding techniques
- Virtual & digital welding /additive manufacturing
- Sensing technologies for welding process
- Intelligent control of welding processes and quality
- Knowledge modeling of welding process

- Intelligentized robotic welding technologies
- Intelligentized, digitalized welding equipment
- Telecontrol and network welding technologies
- Intelligentized welding technology applications
- Intelligentized welding workshop implementation
- Other related intelligent manufacturing topics

The TIWM publishes the peer-reviewed book series for the publication of:

- Edited works
- Original research papers
- Conference proceedings
- Research monographs
- Advanced textbooks

- Professional books
- Reference works
- Ph.D. Thesis
- Others