



an Open Access Journal by MDPI

Advances in Welding and Joining Technologies

Guest Editors:

Prof. Dr. Jean-Pierre Bergmann

Department of Production Technology, Technische Universitaet Ilmenau, 98693 Ilmenau, Germany

Dr. Jörg Hildebrand

Department of Production Technology, Technische Universitaet Ilmenau, 98693 Ilmenau, Germany

Deadline for manuscript submissions: closed (10 December 2022)

Message from the Guest Editors

The quick development of digitalization has in recent years led to a reminiscence of statistic methods in order to characterize and evaluate welding processes, such as USwelding, laser welding, friction stir welding or GMA Welding. The step to AI and neural networks is noticeably short, so new papers focusing on the use of different methods of AI for welding processes, aiming toward quality assurance (recognizing weld defects) to determine process stability or to recognize incorrect welding parameters are of interest.

In this Special Issue, we will focus on the evaluation of AI methods for welding and the explanation of the physical significance of the results. Papers dealing with a deep understanding of the correlations found through AI methods are welcome.



Specialsue

mdpi.com/si/104647





an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec,

CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/applsci applsci@mdpi.com X@Applsci