



## Gas Metal Arc Welding

Guest Editors:

**Dr. Hai-Lung Tsai**

Department of Mechanical and  
Aerospace Engineering, Missouri  
University of Science and  
Technology, Rolla, MO 65409-  
0500, USA

**Dr. Junling Hu**

Department of Mechanical  
Engineering, University of  
Bridgeport, Bridgeport, CT 06604,  
USA

Deadline for manuscript  
submissions:

**closed (28 February 2017)**

### Message from the Guest Editors

Dear Colleagues,

Gas metal arc welding (GMAW) is the most widely used fusion joint process, such as its suitability for most commercial metals and all weld positions, high quality weld, high welding speed, and suitability for automation. GMAW is also a complex process, which involves interactions of arc plasma, metal transfer, weld pool dynamics and solidification, with simultaneous interaction of materials at the plasma, gaseous, and solid states. With the advancement of the numerical modeling of the GMAW process, and the sensing and control of the welding process, real-time control of the GMAW process can be realized. GMAW has also been extended for more complex applications through digitally controlled power supplies, wire feeders, and gas regulation. The Special Issue aims to cover recent advances in the development of numerical modeling and experimental study of GMAW processes, sensing and control of GMAW processes, process optimization, and new applications of GMAW.





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**Prof. Dr. Giulio Nicola Cerullo**

Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

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Applied Sciences Editorial Office  
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