Editorial

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Biographical notes: J. Paulo Davim received his PhD in Mechanical Engineering from the University of Porto in 1997 and Aggregation from the University of Coimbra in 2005. Between 1986 and 1996, he was a Lecturer in University of Porto. Currently, he is an Aggregate Professor in Department of Mechanical Engineering of the University of Aveiro and Head of MACTRIB – Machining and Tribology Research Group. He has more than 22 years of teaching and research experience in materials and manufacturing processes. He is the Editor of three international journals, Guest Editor, Editorial Board member, Reviewer and Scientific Advisory for many international journals and conferences. He has also published more than 200 articles in SCI journals and conferences.

José M.F. Ferreira received his PhD on Materials Science and Engineering from the University of Aveiro in 1993 and Aggregation from the same University in 2003. He has more than 25 years of teaching and research experience on ceramic, glass and glass-ceramic materials and processing techniques. Based on his research activities, he registered 11 patents, published more than 300 SCI papers and supervised 15 Masters and 15 PhD theses. He is an Associate Editor of *The Journal of American Ceramic Society* and acts as reviewer for more than 40 prestigious SCI journals. He was awarded with the 'Stimulus to Excellence – 2005' from the Portuguese Foundation for Science and Technology and received the 'Chinese Ceramic Society – 2005' award.

International Journal of Materials Engineering Innovation (*IJMatEI*) is a multidisciplinary journal that will publish refereed high quality articles with special emphasis on research and development into recent advances in composites, ceramics, functionally graded materials, cellular materials and ecomaterials.

IJMatEI fosters information exchange and discussion on all aspects of modern materials engineering, such as materials preparation and processing, relationships between structure (nano and micro) and properties (physical, chemical, mechanical, thermal, electrical and magnetic), as well as performance and technological applications for advanced industry.

New concepts for preparing, assembling and functionalisation of materials inspired by nature or radically new approaches to improve existing processes and reliability of materials or emerging technologies to build tailor-made 2D or 3D structures for functional applications, are encouraged. In addition, IJMatEI covers computational and optimisation techniques applied in materials engineering innovation such as FEM modelling and simulation, statistical techniques, neural networks, genetic algorithms, fuzzy systems, particle swarm optimisation and other such artificial intelligence techniques, etc.

The objective of IJMatEI is to create a platform for knowledge exchange among academicians, industry and practitioners about modern materials engineering and publish articles related to recent advances.

The journal publishes research articles, review articles, selected articles of the conferences, technical papers and notes, discussion on articles and case studies. The journal also publishes special issues on topics of specific interest within the scope of the journal. The journal covers the following topics (but not limited to):

- composites (MMCs, PMCs, CMCs, hybrids, etc.)
- ceramics, glasses and glass-ceramics
- functionally graded materials (FGMs)
- diamond and related materials
- cellular materials
- bioinspired materials
- ecomaterials
- nano and microstructure materials properties
- analysis of mechanical and thermal stress fields in materials including residual stresses
- multi-scale manufacture with advanced materials
- materials research and renewable energies
- recycling of materials and industrial wastes
- artificial intelligence techniques applied in materials engineering innovation.

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