Editorial

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Biographical notes: Kapil Gupta is working as an Associate Professor in the Department of Mechanical and Industrial Engineering Technology at University of Johannesburg. He obtained his PhD in Mechanical Engineering with specialisation in Advanced Manufacturing from the Indian Institute of Technology Indore, India, in 2014. His areas of interest are advanced machining processes, sustainable manufacturing, green machining, materials processing, precision engineering and gear technology. He has authored several SCI/ISI journal and international conference articles. He also authored and edited ten books on hybrid machining, advanced gear manufacturing, micro and precision manufacturing, and sustainable manufacturing. He is a rated researcher in South Africa and supervising postgraduate students in manufacturing and industrial engineering. He is a recognised reviewer of many international journals, and serving on the advisory boards of the reputed international conferences.

J. Paulo Davim received his PhD in Mechanical Engineering in 1997, MSc in Mechanical Engineering (Materials and Manufacturing Processes) in 1991, Mechanical Engineering degree (five years) in 1986, from the University of Porto (FEUP), Aggregate Title (Full Habilitation) from University of Coimbra in 2005 and DSc from London Metropolitan University in 2013. He is a EurIng by the FEANI, Brussels and a Senior Chartered Engineer by Portuguese Institution of Engineers with an MBA and specialist title in Engineering and Industrial Management. Currently, he is a Professor at the Department of Mechanical Engineering of University of Aveiro, Portugal. He has more than 30 years of teaching and research experience in manufacturing, materials, mechanical and industrial engineering with special emphasis in machining and tribology. He has also interest in management, engineering education and higher education for sustainability.

This special issue of the *International Journal of Materials Engineering Innovation* includes five high quality research articles on innovations in manufacturing for the engineering of modern materials, from across the globe. The engineering of various modern, difficult-to-machine, hard, and bio-materials necessitates continuous innovations in their processing and manufacturing to fulfil the special purpose requirements. This special issue consists of five papers based on such innovations made to overcome the challenges to process and manufacture various novel engineering materials. It majorly focuses on optimisation of process parameters to obtain high geometric accuracy while drilling FRP composites, development and analysis of ultra-low density microcellular foams through cyclic foaming, analysis and optimisation of the strength of adhesive bonded glass fibre reinforced single lap composite joints, mechanical and wear characterisation of advanced composite material, and analysis of spark erosion-based machining of gold coated doped silicon and process modelling using artificial neural network.

It is hoped that the researchers, research scholars, professors, and engineers working in this field would be benefitted from this special issue and encouraged to make attempts to establish the field further.

The editors gratefully acknowledge Inderscience Publishers for their adequate and professional support to preparation of this special issue. Finally, we would like to thank all the authors and the referees for their availability, time and contribution.