
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 the 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. The areas of his interest are advanced machining processes, sustainable manufacturing, green machining, precision engineering and gear technology. He has authored several SCI/ISI journal and international conference articles. He has also authored five and edited three books on hybrid machining, advanced gear manufacturing, micro and precision manufacturing, and sustainable manufacturing with the renowned international publishers. He is a rated Researcher at the National Research Foundation (NRF), South Africa. He is currently supervising eight Master's and three doctorate students who are busy conducting researches in advanced manufacturing area. He is a recognised reviewer of many international journals and conferences.

J. Paulo Davim received his PhD in Mechanical Engineering in 1997, MSc in Mechanical Engineering (Materials and Manufacturing Processes) in 1991, and Mechanical Engineering degree (five years) in 1986, from the University of Porto (FEUP), Aggregate title (Full Habilitation) from the University of Coimbra in 2005 and DSc from the London Metropolitan University in 2013. He is a Eur Ing. by FEANI, Brussels and Senior Chartered Engineer by the Portuguese Institution of Engineers with an MBA and specialist title in Engineering and Industrial Management. He is currently a Professor at the Department of Mechanical Engineering of the 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 Machining and Machinability of Materials* includes six high quality research articles on machining induced surface integrity of difficult-to-machine (DTM) materials, from across the globe. It is known that the surface integrity characteristics play a major role in the functional performance of the parts made of various engineering materials processed through various machining techniques. Therefore, it is important to get aware with the fundamental understanding and research advances in this area. This special issue fulfils that requirement by disseminating basic knowledge, latest developments, current trends, and results of the cutting edge research being conducted on machinability and surface integrity enhancement of DTM materials using various conventional and advanced machining techniques. Cutting edge research conducted on development of modern techniques to overcome the machinability challenges for better machinability and surface integrity aspects such as tool wear, geometric accuracy, surface finish, morphology, and microstructure, etc. in case of machining of DTM materials are discussed in the papers of this special issue.

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.