

Editorial Notes

Special Issue: Advanced Machining Technologies

The use of advanced machining technologies including conventional and nonconventional processes is growing particularly in aerospace and automotive industries. The special issue aimed to publish high-quality research articles in the field of machining technologies. In this issue of the journal, a selection of some of the technological challenges facing the manufacturing industry is presented and some of the inventive researcher pioneering solutions and findings are introduced. The papers accepted for publication in this special issue cover a range of investigations into experimental and modelling of various machining processes. The first paper discussed the environmental impact of machining Ti-6Al-4V using Minimum Quantity Lubrication (MQL) and was submitted by (*National Research Council of Canada, Montreal and McGill University, Quebec, Canada*). The second paper introduced by Prof. Erween Abd Rahim (*Universiti Tun Hussein Onn Malaysia and Tokyo University of Agriculture and Technology, Japan*) and focused on the development of a three-dimensional finite element model when drilling Ti-6Al-4V. Amin Dadgari (*Newcastle University, UK*) introduced work to investigate the tool path impact on high-speed micro milling. Dr. Nida Naveed (*Sunderland University, UK*) presented the deformation characterisations for the Wire Electro Discharge Machining (WEDM) contour cut surfaces. The last paper focused on the development of a numerical model to simulate the thermal damage when drilling CFRP composites. The model was validated using experimental results collected during the investigation (*National Research Council of Canada, Montreal, McGill University, Quebec, Canada and Airbus Operations S.A.S, France*).

We hope that all readers find the issue inspiring, beneficial and has also given a good on-site of the ongoing research and development in this fascinating fast-evolving area of machining technology. We look forward to receiving your contribution to our future journal issues.

Islam Shyha (Lead Guest Editor)

Mahmoud Shafik (Editor in Chief)

Rini Akmeliawati (Editor in Chief)

Dr Islam Shyha, CEng, MIMechE, FHEA, PGHEP, PhD, MSc, BSc (Hons) is the Lead Guest Editor of this Special Issue: Advanced Machining Technologies, and also a Senior Lecturer, Programme Leader for MSc Pipeline Engineering and Pipeline Integrity Management Programme Co-ordinator, Department of Mechanical & Construction Engineering, Faculty of Engineering and Environment, Northumbria University, Newcastle upon Tyne NE1 8ST, UK.