
Editorial

Edoardo Capello

Dipartimento di Meccanica, Politecnico di Milano,
Piazza Leonardo da Vinci 32, 20133 Milano, Italy
E-mail: edoardo.capello@polimi.it

J. Paulo Davim

Department of Mechanical Engineering, University of Aveiro,
Campus Santiago, 3810-193 Aveiro, Portugal
E-mail: pdavim@ua.pt

Biographical notes: Edoardo Capello received his Master in Manufacturing Engineering from Politecnico di Milano, Italy, in 1991. He was a Full Professor at the Mechanical Department of the Politecnico di Milano, where he is the Head of SITEC – Laboratory for Laser Applications. He has published more than 100 papers in refereed international journals and conferences. He is a member of ASME and of AITeM (Italian Association of Manufacturing Engineers), where he coordinates the section named Promozione L@ser, the Italian association of laser machining.

J. Paulo Davim received his PhD in Mechanical Engineering from University of Porto in 1997 and the Aggregation from University of Coimbra in 2005. Between 1986–1996, he was a Lecturer in University of Porto. Currently, he is an Aggregate Professor in Department of Mechanical Engineering of the University of Aveiro. He has more 20 years of teaching and research experience in machining, tribology 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 250 articles in refereed international journals and conferences.

The interest in unconventional machining is steadily growing both at academic and industrial level. New materials, with higher physical properties and mechanical behaviour, have underlined the limits of traditional manufacturing processes. On the other hand, unconventional machining can be economically interesting also for common materials. Nevertheless, research efforts still have to be made to enhance quality, precision, reliability and economics of unconventional machining.

The purpose of this special issue is to present a collection of examples illustrating the state-of-the-art developments of unconventional machining of materials.

The guest editors greatly acknowledge Inderscience Publishers for their adequate and professional support throughout the preparation of this special issue. Finally, we would like to thank all the authors and all the referees for their availability and their thorough evaluations of these papers.