Editorial

Irene Buj-Corral*

Department of Mechanical Engineering,
Universitat Politècnica de Catalunya,
Av. Diagonal, 647, 08028, Barcelona, Spain
Email: irene.buj@upc.edu
*Corresponding author

Joaquim Minguella-Canela

Department of Mechanical Engineering,
Fundació CIM-UPC,
C. Llorenç i Artigas, 12, 08028, Barcelona, Spain
Email: jminguella@fundaciocim.org

Biographical notes: Irene Buj-Corral is currently a Senior Lecturer at the Department of Mechanical Engineering, School of Industrial Engineering of Barcelona (ETSEIB), Universitat Politècnica de Catalunya, Barcelona, Spain. She is also the Director of the Common Laboratory of Mechanical Engineering at UPC. Her research interests include surface finish obtained in milling and honing processes, as well as 3D printing of ceramics.

Joaquim Minguella-Canela is currently an Associate Teacher at the Department of Mechanical Engineering, School of Industrial Engineering of Barcelona (ETSEIB), Universitat Politècnica de Catalunya, Barcelona, Spain. He is also the Director of Technology and Learning at Fundació CIM-UPC. His research interests include cryogenic cooling and 3D printing of ceramics.

In recent years, with the advent of numerical control measuring machines, the development of different software and the implementation of new technologies, the process of measuring parts has experienced considerable progress.

The present issue of the *International Journal of Mechatronics and Manufacturing Systems* includes selected papers on 'Metrology and precision manufacturing' from the 6th MESIC (Manufacturing Engineering Society International Conference). It took place in Barcelona, Spain, between 22nd and 24th July 2015. A total amount of 174 communications were presented from 19 different countries, of which 59 were presented orally and 115 via poster.

The first edition of the MESIC Conference was held in Calatayud, Zaragoza, Spain in 2005. From that moment on it has been organised with a biannual frequency. The conference represents a platform for sharing knowledge between researchers and also with technicians from related industries, with a special emphasis placed on novel technologies and developments.

Selected papers in the present issue contain following subjects:

- Measurement of clamping forces during turning.
- Development of a 2D-control for a nanopositioning long range stage.
- Analysis of software measurement standard for surface finish.
- Design concerns in dimensional verification
- Use of a conoscopic holography sensor in a machining centre to analyse influence of surface location.

Finally, the guest editors thank all components of the organising and scientific committee of MESIC 2015 Conference, as well as all authors for their contributions to the conference. Special thanks are due to professor Joan Vivancos as well as to Professor Tugurul Özel, Professor José Antonio Yagüe and the rest of members of *IJMMS* for their help.