
Editorial

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Biographical notes: Gorka Urbikain is an Assistant Professor at the University of the Basque Country, teaching applied mechanics, materials resistance and manufacturing systems. He completed his PhD entitled 'Stability prediction in turning processes using Chebyshev collocation method'. His main topics of interest include mathematical modelling, stability prediction, low machinability materials and process monitoring. He is the author of a number of publications in high impact journals and conferences. He is also a member of ASME. His areas of research interest include machine tools, modelling, chatter, dynamic, machining of superalloys and coatings.

Baohai Wu is a Professor at Northwestern Polytechnical University of China. He received his Bachelor, Master and Doctor degrees from Xi'an Jiaotong University. His research interests mainly include geometric modelling, CNC machining and smart machining technology. Since 2000, he has published more than 50 papers in academic journals and international conferences. As leader or main participant, he has undertaken more than ten projects, including major national science and technology projects, national natural science foundation of china and so on.

The International Conferences on High Speed Machining are focused on the communication and cooperation of the research results and technology experiences among the academic institutions, research centres, machine tool industries and in general to all kinds of manufacturing companies.

The 7th International Conference on HSM, hosted by the Northwestern Polytechnical University and Concordia University was held in Xi'an, China in 2016. Expert scholars and experienced technical staff from the academia and industries were invited worldwide. All of them presented new points of view to improve both theory and application of high speed machining.

Selected high quality papers were recommended and submitted for a special issue in the *International Journal of Mechatronics and Manufacturing Systems (IJMMS)*. This special issue thus emerges as the publication of some new approaches and ideas to achieve high productivity and precision for high-added value parts. Recent advances in machining and manufacturing include:

- Conventional and non-conventional machining processes.
- Cutting tools: coatings, prediction of wear, surface accuracy, etc.
- Materials: difficult-to-cut alloys, wrought and cast materials, light alloys, composite materials, etc.
- New measurement methods for the 4.0 Industry: process monitoring, image processing, etc.