

Editorial

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The 7th International Conference of Materials and Manufacturing Engineering (ICMMEN2020) was a great opportunity to change information of mutual scientific interests and to develop new collaborations among participants. The aim was to strengthen synergies between people involved in scientific research and those having to meet the rapidly increasing demands of industrial applications. The conference was hosted by the Department of Mechanical Engineering, Laboratory of Machine Tools and Manufacturing Engineering, of Aristotle University of Thessaloniki, in Thessaloniki, Greece from 2nd to 3rd July 2020.

The proceedings of this year's conference include 53 papers that have been carefully selected through a rigorous review process. This process entailed detailed reading of the papers, reporting of comments to authors, modification of papers by authors, and re-evaluation of the revised papers. Manuscripts were checked for plagiarism, proofread, and professionally edited to ensure quality of the contents. The role of the Scientific Committee was to ensure that the final accepted papers incorporated the reviewers' comments. Of the 81 abstracts originally received, 53 papers were finally accepted at the conference, representing an acceptance rate of 65.5%.

These papers address theories and applications in a variety of areas i.e. Advanced Materials Engineering, Advances in Machining and Manufacturing Technologies, 3D Scanning and Additive Manufacturing, Non-Conventional Technologies in Manufacturing, Coatings, Surface Engineering and Tribology, CAD/CAM/CAE Technologies and Geometrical Representations, Automation and Robotics, Learning and education in Robotics, Mechatronics and New Technologies, Human Mechatronic Systems Interaction, Product Design, Sustainable Design and Circular Economy, Computational Design and Digital Fabrication, Energy Consumption Aspects in Manufacturing Processes.

Sincere appreciation is due to all authors, members of the international scientific committee, keynote speakers and the organizing committee for their great effort. We would also like to express our deep gratitude to the editorial team Prof. Gabriel Mansour, Prof. Dimitrios Tzetzis and Prof. Panagiotis Kyratsis and Mrs Maria Zoumaki the conference secretary. It is the contribution of all involved that made this conference an important event that strengthens the interdisciplinary links between manufacturing engineering and material science.

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Keynote Speakers

K.D. Bouzakis

Advanced methods facilitating the prediction of coated tools' cutting performance in milling considering entry impact loads' duration

G.T. Virgil

Complementary methods of profiling the tools that generate by enwrapping

P.J. Bartolo

New trends on additive manufacturing