Preface

The 5th International Conference on Advanced Manufacturing Engineering and Technologies (NEWTECH) will be at University of Belgrade, Faculty of Mechanical Engineering, Belgrade, Serbia, from 5 to 9 June 2017. It is organized by the University of Belgrade, Faculty of Mechanical Engineering. Over 100 delegates will be attending NEWTECH 2017—academics, practitioners and scientists from 12 countries—presenting and authoring 36 papers. The Conference Programme includes 11 keynote speeches (opening/closing sessions), breakout sessions and workshop discussions and a closing session on the final day.

The previous conferences on Advanced Manufacturing Engineering and Technologies (NEWTECH) were as follows:

- 1st Conference—2009 at Dunarea de Jos University of Galati, Galati, Romania. Conference Founder and Chair was Prof. Viorel Paunoiu.
- 2nd Conference—2011 at Brno University, Brno, Czech Republic. Conference Chair was Prof. Miroslav Piska.
- 3rd Conference—2013 at KTH Royal Institute of Technology, Stockholm, Sweden. Conference Chair was Prof. Cornel Mihai Nicolescu.
- 4th Conference—2015 at Wroclaw University of Technology, Poland. Conference Chair was Prof. Jerzy Jedrzejewski.

The main goal of the conference is to bring together experts from academia and industry, and it represents an excellent occasion for exchange of knowledge, ideas, experiences, research results and information in the field of manufacturing.

We acknowledge the outstanding contributions of the following keynote and opening/closing sessions’ speakers at NEWTECH 2017.

Plenary Session 1: Recent Trends in Manufacturing:

- Steven Y. Liang, “Process and Microstructure in Materials-Affected Manufacturing”;
- Viorel Paunoiu, Doina Boazu, “Hydro-Multipoint Forming, a challenge in sheet metal forming”;
NEWTECH 2017 can be regarded as very successful due to its special features:
(i) it presents new research directions in the field of advanced manufacturing (bio-inspired manufacturing, Cyber-Physical Manufacturing, Industry 4.0), and
(ii) offers practical applications and solutions for various problems in manufacturing.

We express our gratitude to all people involved in conference planning, preparation and realization, and especially to:

• Founder and Honorary Conference Chairs (Prof. Viorel Paunoiu, Prof. Miroslav Piska, Prof. Cornel Mihai Nicolescu and Prof. Jerzy Jedrzejewski).
• All authors, and especially keynote speakers who have contributed to the high scientific and professional level of the conference.
• All members of the International Programme Committee for reviewing the papers and chairing the Conference Sessions.
• Springer and Mr. Pierpaolo Riva for publishing the conference proceedings within the series “Lecture Notes in Mechanical Engineering”.
• Ministry of Education, Science and Technological Development of the Republic of Serbia for supporting the conference.

We wish to express a special gratitude to M.Sc. students at the University of Belgrade, Faculty of Mechanical Engineering, Ms. Julija Kostić and Ms. Dragana Jevđović for their effort in preparing and managing the conference in the best way.

The host of the next 6th Conference on Advanced Manufacturing Engineering and Technologies—NEWTECH 2019 will be the Laboratory of Manufacturing Processes and Machine Tools (LMProMaT), School of Pedagogical and Technological Education (ASPETE), Athens, Greece. The Conference Chair will be Prof. Nikolaos M. Vaxevanidis.

Belgrade, Serbia
March 2017

Vidosav Majstorovic
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