



47th SME North American Manufacturing Research Conference, Penn State Behrend Erie,  
Pennsylvania, 2019

## Special Issue of Journal of Manufacturing Systems on New Trends in Manufacturing Systems Research

Livan Fratini<sup>a\*</sup>, Ihab Ragai<sup>b</sup>, Lihui Wang<sup>c</sup>

<sup>a</sup>University of Palermo, Palermo, Italy

<sup>b</sup>Penn State University, Pennsylvania, USA

<sup>c</sup>KTH Royal Institute of Technology, Stockholm, Sweden

\* Corresponding author. Tel.: +39-91-238-61851.

E-mail address: [livan.fratini@unipa.it](mailto:livan.fratini@unipa.it)

© 2019 The Authors. Published by Elsevier B.V.

This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/3.0/>)

Peer-review under responsibility of the Scientific Committee of NAMRI/SME.

During the refereeing process of papers submitted to NAMRC 47 this year, five high-quality papers have been selected and fast-tracked to a special issue of Journal of Manufacturing Systems (JMS) entitled “New Trends in Manufacturing Systems Research”. The selection of the fast-track papers was based on authors’ preferences, quality of the papers, reviewers’ recommendations, Track Chairs’ picks, pre-selection by the Chair of NAMRI/SME Scientific Committee, and final approval by the JMS Editor. The five papers published in JMS are therefore excluded from the Proceedings of NAMRC 47 in Procedia Manufacturing. Nevertheless, these papers are presented in person at NAMRC 47. Details of the fast-tracked papers and their hyperlinks to the JMS special issue are provided below for quick reference and for completion of the Proceedings without duplication.

0. Livan Fratini Ihab Ragai and Lihui Wang, “Editorial: New Trends in Manufacturing Systems Research”, doi:10.1016/j.jmsy.2019.04.009

1. Maxwell Praniewicz, Thomas Kurfess and Christopher Saldana, “Error qualification for multi-axis BC-type machine tools”, doi:10.1016/j.jmsy.2019.03.004
2. Qi Tian and Weihong Guo, “Reconfiguration of manufacturing supply chains considering outsourcing decisions and supply chain risks”, doi:10.1016/j.jmsy.2019.04.005
3. Botao Zhang, Archak Goel, Omkar Ghalsasi and Sam Anand, “CAD-Based Design and Pre-processing Tools for Additive Manufacturing”, doi:10.1016/j.jmsy.2019.03.005
4. Brian Paul, Steven Kawula and Chuankai Song, “A Manufacturing Process Design for Producing a Membrane-based Energy Recovery Ventilator with High Aspect Ratio Support Ribs”, doi:10.1016/j.jmsy.2019.04.004
5. Ji Hoon Kim, Lyang Suan Wang, Kaushalya Putta, Payam Haghighi, Satchit Ramnath, Jami Shah and Pete

\* Corresponding author. Tel.: +39-91-238-61851.

E-mail address: [livan.fratini@unipa.it](mailto:livan.fratini@unipa.it)

2351-9789 © 2019 The Authors. Published by Elsevier B.V.

This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/3.0/>)

Peer-review under responsibility of the Scientific Committee of NAMRI/SME.

10.1016/j.promfg.2019.06.102

Edwards, “Knowledge Based Design Advisory System for Multi-Material Joining”,  
doi:10.1016/j.jmsy.2019.03.003

In summary, the five papers in this special issue bring to readers some of the state-of-the-art and the latest achievements highlighted at NAMRC 47 hosted by

Penn State University in Erie, Pennsylvania, USA. The NAMRI/SME Scientific Committee wish to take this opportunity to thank all the authors of the five papers for their scientific contributions to this special issue, and for complying with referees’ comments in revising their manuscripts. Their quality contributions to NAMRC 47 are also acknowledged.