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Special Issue of Journal of Manufacturing Processes on New Trends in Manufacturing Processes Research

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During the refereeing process of papers submitted to NAMRC 47 this year, nine high-quality papers have been selected and fast-tracked to a special issue of Journal of Manufacturing Processes (JMP) entitled "New Trends in Manufacturing Processes 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 JMP Editor. The nine papers published in JMP 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 JMP special issue are provided below for quick reference and for completion of the Proceedings without duplication.

 Livan Fratini Ihab Ragai and Lihui Wang, "Editorial: New Trends in Manufacturing Processes Research", <u>doi:10.1016/j.jmapro.2019.03.041</u>

- Tony Schmitz, Andrew Honeycutt, Michael Gomez, Michael Stokes and Emma Betters, "Multi-point coupling for tool point receptance prediction", <u>doi:10.1016/j.jmapro.2019.03.043</u>
- Megan Shockly, Nick Duong, Jianfeng Ma, Shuting Lei, Muhammad Jahan and Murali Sundaram, "Numerical Investigation of the Effects of Operating Parameters in the Vibration Assisted Nano Impact Machining of Single Crystalline Silicon by Loose Abrasive using Molecular Dynamics Simulation", doi:10.1016/j.jmapro.2019.03.044
- Ankush Bansal, Baoyang Jiang and Jun Ni, "Die-less fabrication of miniaturized parts through single point incremental micro-forming", <u>doi:10.1016/j.jmapro.2019.03.046</u>
- Shanshan Zhang, Santosh Rauniyar, Subin Shrestha, Aaron Ward and Kevin Chou, "An Experimental Study of Tensile Property Variability in Selective Laser Melting", doi:10.1016/j.jmapro.2019.03.045

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- Qinan Zhou, Nicholas Toombs and Placid Ferreira, "Dynamics Modeling and Verification of a Large-Displacement Precision Preloaded-Flexure Stage", <u>doi:10.1016/j.jmapro.2019.03.047</u>
- Jin Woo Kim, Jungsoo Nam and Sang Won Lee, "Experimental Study on Micro-drilling of Unidirectional Carbon Fiber Reinforced Plastic (UD-CFRP) Composite Using Nano-solid Lubrication", doi:10.1016/j.jmapro.2019.04.022
- Gouthaman Nithyanand, Abram Pleta, Farbod Akhavan Niaki and Laine Mears, "Identification of optimal machining parameters in trochoidal milling of Inconel 718 for minimal force and tool wear and investigation of corresponding effects on machining affected zone depth", doi:10.1016/j.jmapro.2019.03.048

 Dario Baffari, Anthony P. Reynolds, Attilio Masnata, Livan Fratini and Giuseppe Ingarao, "Friction Stir Extrusion To Recycle Aluminum Alloys Scraps: Energy Efficiency Characterization",

doi:10.1016/j.jmapro.2019.03.049

 Qinghua Wang, Avik Samanta, Fatima Toor, Scott Shaw and Hongtao Ding, "Colorizing Ti-6Al-4V Surface via High-Throughput Laser Surface Nanostructuring", <u>doi:10.1016/j.jmapro.2019.03.050</u>

In summary, the nine 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 thanks all the authors of the fifteen 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.