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Special Issue of Journal of Manufacturing Processes on Advancing Manufacturing Processes Research at NAMRC 46

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Peer-review under responsibility of the scientific committee of the 46th SME North American Manufacturing Research Conference.

During the refereeing process of papers submitted to NAMRC 46 this year, nine high-quality papers have been selected and fast-tracked to a special issue of Journal of Manufacturing Processes (JMP) entitled “Advancing Manufacturing Processes Research at NAMRC 46”. 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 46 in Procedia Manufacturing. Nevertheless, these papers are presented in person at NAMRC 46. 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 NAMRC Proceedings without duplication.

0. Lihui Wang, Livan Fratini and Albert J. Shih, “Editorial: Advancing Manufacturing Processes Research at NAMRC 46”, [doi:10.1016/j.jmapro.2018.05.031](https://doi.org/10.1016/j.jmapro.2018.05.031)
1. Burak Sencer and Mukhtar Maulimov, “A New Turning System Assisted by Chip-Pulling”, [doi:10.1016/j.jmapro.2018.03.044](https://doi.org/10.1016/j.jmapro.2018.03.044)
2. Edward De Meter, Varad Tripathi, Andrew Armstrong, Xi Gong, Guha Manogharan and

- Timothy Simpson, “Milling of Inconel 718 Block Supports Fabricated Using Laser Powder Bed Fusion”,
[doi:10.1016/j.jmapro.2018.03.046](https://doi.org/10.1016/j.jmapro.2018.03.046)
3. Waleed Ashraf Khan, Nghi Hoang, Bruce Tai and Wayne N.P. Hung, “Through-Tool Minimum Quantity Lubrication and Effect on Machinability”,
[doi:10.1016/j.jmapro.2018.03.047](https://doi.org/10.1016/j.jmapro.2018.03.047)
 4. Dario Baffari, Gianluca Buffa, Davide Campanella, Ernesto Lo Valvo and Livan Fratini, “Experimental and Numerical Investigation on a New FSW Based Metal to Composite Joining Technique”,
[doi:10.1016/j.jmapro.2018.03.048](https://doi.org/10.1016/j.jmapro.2018.03.048)
 5. Santosh Reddy Sama, Jiayi Wang and Guha Manogharan, “Non-Conventional Mold Design for Metal Casting Using 3D Sand-Printing”,
[doi:10.1016/j.jmapro.2018.03.049](https://doi.org/10.1016/j.jmapro.2018.03.049)
 6. Stephanie Hulsey, Saheem Absar and Hongseok Choi, “Investigation of Simultaneous Ultrasonic Processing of Polymer-Nanoparticle Solutions for Electrospinning of Nanocomposite Nanofibers”,
[doi:10.1016/j.jmapro.2018.03.050](https://doi.org/10.1016/j.jmapro.2018.03.050)
 7. Zheng Kang and Benxin Wu, “Coalescence of Gold Nanoparticles around the End of a Carbon Nanotube: A Molecular-Dynamics Study”,
[doi:10.1016/j.jmapro.2018.03.051](https://doi.org/10.1016/j.jmapro.2018.03.051)
 8. Jie Jin, Jingfan Yang, Huachao Mao and Yong Chen, “A Vibration-Assisted Method to Reduce Separation Force for Stereolithography”,
[doi:10.1016/j.jmapro.2018.03.052](https://doi.org/10.1016/j.jmapro.2018.03.052)
 9. Iskander El Amri, Ashif Sikandar Iquebal, Arun Srinivasa and Satish Bukkapatnam, “Localized Magnetic Fluid Finishing of Freeform Surfaces Using Electro-Permanent Magnets and Magnetic Concentration”,
[doi:10.1016/j.jmapro.2018.05.026](https://doi.org/10.1016/j.jmapro.2018.05.026)

In summary, the nine fast-track NAMRC papers in this special issue bring to readers some of the state-of-the-art and the latest achievements highlighted at NAMRC 46 hosted by Texas A&M University in College Station, TX, USA. The NAMRI/SME Scientific Committee wish to take this opportunity to thank all the authors of the nine papers for their scientific contributions to this special issue, and for complying with referees’ comments in revising their manuscripts. Their quality contributions to NAMRC 46 are also acknowledged.