

NAMRC 2022 Outstanding Paper Award

June 2022

Cao, Ehmann and team win NAMRC 2022 Outstanding Paper Award



Authored by postdoctoral scholar Dominik Kozjek, Ph.D. students Fred Carter and Conor Porter, Professor Jian Cao and Professor Kornel Ehmann, and Dr. Jon-Erik Mogonye from the U.S. Army Research Laboratory (ARL) (absent from photo), the paper "Data-driven prediction of next-layer melt pool temperatures in laser powder bed fusion based on co-axial high-resolution Planck thermometry measurements," presents novel ideas of improving control in additive manufacturing and was published in the SME Journal of Manufacturing Processes (<https://doi.org/10.1016/j.jmapro.2022.04.033>). This work was supported by ARL to advance the fundamental understanding of additive manufacturing processes and technological development for process control. NAMRC is SME's preeminent and longest-running international forum for manufacturing research and its industrial applications.