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Ph.D. Student in Civil and Environmental Engineering, admitted Autumn 2021

Publications

PUBLICATIONS

- **Multi-fidelity Modeling for Uncertainty Quantification in Laser Powder Bed Fusion Additive Manufacturing** *INTEGRATING MATERIALS AND MANUFACTURING INNOVATION*
  Nath, P., Sato, M., Karve, P., Mahadevan, S.
  2022

- **Multi-Objective Optimization Under Uncertainty of Part Quality in Fused Filament Fabrication** *ASCE-ASME JOURNAL OF RISK AND UNCERTAINTY IN ENGINEERING SYSTEMS PART B-MECHANICAL ENGINEERING*
  Kapusuzoglu, B., Nath, P., Sato, M., Mahadevan, S., Witherell, P.
  2022; 8 (1)

- **Anomaly Detection of Laser Powder Bed Fusion Melt Pool Images Using Combined Unsupervised and Supervised Learning Methods** *42nd Computers and Information in Engineering Conference (CIE)*
  Sato, M. M., Wong, V. W., Law, K. H., Yeung, H., Yang, Z., Lane, B., Witherell, P.
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- **Process Optimization Under Uncertainty for Improving the Bond Quality of Polymer Filaments in Fused Filament Fabrication** *JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME*
  Kapusuzoglu, B., Sato, M., Mahadevan, S., Witherell, P.
  2021; 143 (2)