

Weihong Guo

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,143
citations

471371

17
h-index

414303

32
g-index

53
all docs

53
docs citations

53
times ranked

1021
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Reconfigurable manufacturing systems: Principles, design, and future trends. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 121-136. | 2.5 | 269 |
| 2 | An Optimization Model and Solution Algorithms for the Vehicle Routing Problem With a "Factory-in-a-Box". <i>IEEE Access</i> , 2020, 8, 134743-134763. | 2.6 | 83 |
| 3 | Learn to Navigate: Cooperative Path Planning for Unmanned Surface Vehicles Using Deep Reinforcement Learning. <i>IEEE Access</i> , 2019, 7, 165262-165278. | 2.6 | 82 |
| 4 | Machine learning for metal additive manufacturing: Towards a physics-informed data-driven paradigm. <i>Journal of Manufacturing Systems</i> , 2022, 62, 145-163. | 7.6 | 77 |
| 5 | Online process monitoring with near-zero misdetection for ultrasonic welding of lithium-ion batteries: An integration of univariate and multivariate methods. <i>Journal of Manufacturing Systems</i> , 2016, 38, 141-150. | 7.6 | 50 |
| 6 | Deep Learning-Based Data Fusion Method for In Situ Porosity Detection in Laser-Based Additive Manufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2021, 143, . | 1.3 | 47 |
| 7 | Choosing the system configuration for high-volume manufacturing. <i>International Journal of Production Research</i> , 2018, 56, 476-490. | 4.9 | 43 |
| 8 | Effect of interfacial preheating on welded joints during ultrasonic composite welding. <i>Journal of Materials Processing Technology</i> , 2017, 246, 116-122. | 3.1 | 35 |
| 9 | Holistic tactical-level planning in liner shipping: an exact optimization approach. <i>Journal of Shipping and Trade</i> , 2020, 5, . | 0.7 | 32 |
| 10 | Allocation of maintenance resources in mixed model assembly systems. <i>Journal of Manufacturing Systems</i> , 2013, 32, 473-479. | 7.6 | 30 |
| 11 | Performance evaluation for manufacturing systems under control-limit maintenance policy. <i>Journal of Manufacturing Systems</i> , 2020, 55, 221-232. | 7.6 | 28 |
| 12 | A graph-based cost model for supply chain reconfiguration. <i>Journal of Manufacturing Systems</i> , 2018, 48, 55-63. | 7.6 | 26 |
| 13 | Reconfiguration of manufacturing supply chains considering outsourcing decisions and supply chain risks. <i>Journal of Manufacturing Systems</i> , 2019, 52, 217-226. | 7.6 | 26 |
| 14 | StressNet - Deep learning to predict stress with fracture propagation in brittle materials. <i>Npj Materials Degradation</i> , 2021, 5, . | 2.6 | 26 |
| 15 | Effect of Mg doping on magnetic induction heating of Zn-Co ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156907. | 2.8 | 25 |
| 16 | Estimation of active maintenance opportunity windows in Bernoulli production lines. <i>Journal of Manufacturing Systems</i> , 2017, 45, 109-120. | 7.6 | 22 |
| 17 | Profile Monitoring and Fault Diagnosis Via Sensor Fusion for Ultrasonic Welding. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, . | 1.3 | 20 |
| 18 | Effect of in vitro storage duration on measured mechanical properties of brain tissue. <i>Scientific Reports</i> , 2018, 8, 1247. | 1.6 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Hierarchical spatial-temporal modeling and monitoring of melt pool evolution in laser-based additive manufacturing. IJSE Transactions, 2020, 52, 977-997. | 1.6 | 14 |
| 20 | Leveraging simulated and empirical data-driven insight to supervised-learning for porosity prediction in laser metal deposition. Journal of Manufacturing Systems, 2022, 62, 875-885. | 7.6 | 14 |
| 21 | Anisotropic GPMP2: A Fast Continuous-Time Gaussian Processes Based Motion Planner for Unmanned Surface Vehicles in Environments With Ocean Currents. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3914-3931. | 3.4 | 13 |
| 22 | Numerical Simulation Analysis of Microstructure of Dielectric Layers in Capacitive Pressure Sensors. IEEE Sensors Journal, 2019, 19, 3260-3266. | 2.4 | 12 |
| 23 | A Physics-Informed Convolutional Neural Network with Custom Loss Functions for Porosity Prediction in Laser Metal Deposition. Sensors, 2022, 22, 494. | 2.1 | 10 |
| 24 | Online Eccentricity Monitoring of Seamless Tubes in Cross-Roll Piercing Mill. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, . | 1.3 | 9 |
| 25 | Manufacturing Process Monitoring With Nonparametric Change-Point Detection in Automotive Industry. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, . | 1.3 | 9 |
| 26 | Predicting Nugget Size of Resistance Spot Welds Using Infrared Thermal Videos With Image Segmentation and Convolutional Neural Network. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, . | 1.3 | 9 |
| 27 | Algebraic expression of system configurations and performance metrics for mixed-model assembly systems. IIE Transactions, 2014, 46, 230-248. | 2.1 | 8 |
| 28 | Change-Point Detection on Solar Panel Performance Using Thresholded LASSO. Quality and Reliability Engineering International, 2016, 32, 2653-2665. | 1.4 | 8 |
| 29 | Joint decision-making of production and maintenance in mixed model assembly systems with delayed differentiation configurations. International Journal of Production Research, 2020, 58, 4071-4085. | 4.9 | 8 |
| 30 | Process Monitoring and Fault Prediction in Multivariate Time Series Using Bag-of-Words. IEEE Transactions on Automation Science and Engineering, 2022, 19, 230-242. | 3.4 | 7 |
| 31 | Tool Wear Characterization and Monitoring with Hierarchical Spatio-Temporal Models for Micro-Friction Stir Welding. Journal of Manufacturing Processes, 2020, 56, 1353-1365. | 2.8 | 7 |
| 32 | A hub-and-spoke design for ultra-cold COVID-19 vaccine distribution. Vaccine, 2021, 39, 6127-6136. | 1.7 | 7 |
| 33 | Co-Design of Supply Chain Network and Subassembly Planning Considering the Reconfiguration of Supply Chain Structure for Factory-in-a-Box Manufacturing. , 2018, , . | | 6 |
| 34 | Comparison of Early Stopping Neural Network and Random Forest for In-Situ Quality Prediction in Laser Based Additive Manufacturing. Procedia Manufacturing, 2021, 53, 656-663. | 1.9 | 6 |
| 35 | Multimodal Data Fusion in 3-D Printing Quality Prediction. , 2019, 3, 1-4. | | 5 |
| 36 | Optimal Integration of Supervised Tensor Decomposition and Ensemble Learning for In Situ Quality Evaluation in Friction Stir Blind Riveting. IEEE Transactions on Automation Science and Engineering, 2021, 18, 19-35. | 3.4 | 5 |

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|----|--|-----|-----------|
| 37 | Identifying manufacturing operational conditions by physics-based feature extraction and ensemble clustering. <i>Journal of Manufacturing Systems</i> , 2021, 60, 162-175. | 7.6 | 5 |
| 38 | Data-Driven Gantry Health Monitoring and Process Status Identification Based on Texture Extraction. <i>Journal of Computing and Information Science in Engineering</i> , 2021, 21, . | 1.7 | 5 |
| 39 | A GENERALIZED STOCHASTIC PETRI-NET MODEL FOR PERFORMANCE ANALYSIS AND ALLOCATION OPTIMIZATION OF A PARTICULAR REPAIR SYSTEM. <i>Asia-Pacific Journal of Operational Research</i> , 2013, 30, 1250042. | 0.9 | 4 |
| 40 | A decision support system on surgical treatments for rotator cuff tears. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2015, 5, 197-210. | 0.8 | 4 |
| 41 | Profile Monitoring and Fault Diagnosis via Sensor Fusion for Ultrasonic Welding. , 2016, , . | | 4 |
| 42 | Tensor decomposition to compress convolutional layers in deep learning. <i>IIE Transactions</i> , 0, , 1-60. | 1.6 | 4 |
| 43 | A Data-Driven Diagnostic System Utilizing Manufacturing Data Mining and Analytics. <i>SAE International Journal of Materials and Manufacturing</i> , 2017, 10, 282-292. | 0.3 | 3 |
| 44 | Nonparametric, real-time detection of process deteriorations in manufacturing with parsimonious smoothing. <i>IIE Transactions</i> , 2021, 53, 568-581. | 1.6 | 3 |
| 45 | Multiscale Modeling of Sintering-Driven Conductivity in Large Nanowire Ensembles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56645-56654. | 4.0 | 3 |
| 46 | A Deep-Learning-Based Surrogate Model for Thermal Signature Prediction in Laser Metal Deposition. <i>IEEE Transactions on Automation Science and Engineering</i> , 2023, 20, 482-494. | 3.4 | 3 |
| 47 | Co-Optimization of Supply Chain Reconfiguration and Assembly Process Planning for Factory-in-a-Box Manufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2022, 144, . | 1.3 | 3 |
| 48 | Sensor Fusion and On-Line Monitoring of Friction Stir Blind Riveting for Lightweight Materials Manufacturing. , 2018, , . | | 2 |
| 49 | Simulation and Analysis of Preventive Maintenance Scheduling Techniques for Fruit-Roll Packaging Line. <i>Procedia Manufacturing</i> , 2019, 39, 1762-1772. | 1.9 | 2 |
| 50 | UIR-Net: Object Detection in Infrared Imaging of Thermomechanical Processes in Automotive Manufacturing. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 3276-3287. | 3.4 | 1 |
| 51 | Estimation of Real-Time Active Maintenance Opportunity Windows in Manufacturing Systems With Bernoulli Machines. , 2016, , . | | 0 |
| 52 | Joint Production and Maintenance Decision-Making in Mixed-Model Assembly Systems. , 2017, , . | | 0 |
| 53 | Sensor Fusion and On-Line Monitoring of Friction Stir Blind Riveting for Lightweight Materials Manufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 0, , 1-36. | 1.3 | 0 |