Zhuming Bi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6293452/publications.pdf Version: 2024-02-01



7HUMING RI

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Internet of things (IoT) and big data analytics (BDA) for digital manufacturing (DM). International Journal of Production Research, 2023, 61, 4004-4021. | 4.9 | 37 |
| 2 | Segmentation of prostate ultrasound images: the state of the art and the future directions of segmentation algorithms. Artificial Intelligence Review, 2023, 56, 615-651. | 9.7 | 4 |
| 3 | System framework of adopting additive manufacturing in mass production line. Enterprise Information Systems, 2022, 16, 606-629. | 3.3 | 8 |
| 4 | Impact of ultrasonic vibration on microstructure and mechanical properties of diamond in laser brazing with Ni–Cr filler alloy. Ceramics International, 2022, 48, 4096-4104. | 2.3 | 12 |
| 5 | User-Oriented Selections of Validators for Trust of Internet-of-Thing Services. IEEE Transactions on Industrial Informatics, 2022, 18, 4859-4867. | 7.2 | 5 |
| 6 | New digital triad (DT-II) concept for lifecycle information integration of sustainable manufacturing systems. Journal of Industrial Information Integration, 2022, 26, 100316. | 4.3 | 10 |
| 7 | Blockchain technologies for interoperation of business processes in smart supply chains. Journal of Industrial Information Integration, 2022, 26, 100326. | 4.3 | 20 |
| 8 | Deep Learning-Based Complete Coverage Path Planning With Re-Joint and Obstacle Fusion Paradigm. Frontiers in Robotics and Al, 2022, 9, 843816. | 2.0 | 11 |
| 9 | Microstructure and properties at bonds of diamond grains and Ni Cr filler alloy by fiber laser brazing. Diamond and Related Materials, 2022, 125, 108969. | 1.8 | 6 |
| 10 | Development of a Real-Time Wearable Fall Detection System in the Context of Internet of Things. IEEE Internet of Things Journal, 2022, 9, 21999-22007. | 5.5 | 21 |
| 11 | Collaborative Multiple Rank Regression for Temperature Prediction of Blast Furnace. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10. | 2.4 | 7 |
| 12 | Framework for Performance Assessment of Heterogeneous Robotic Systems. IEEE Systems Journal, 2021, 15, 1191-1201. | 2.9 | 10 |
| 13 | Automatic robotic recharging systems – development and challenges. Industrial Robot, 2021, 48, 95-109. | 1.2 | 6 |
| 14 | Augmenting cryptocurrency in smart supply chain. Journal of Industrial Information Integration, 2021, 21, 100188. | 4.3 | 5 |
| 15 | State of the art of friction modelling at interfaces subjected to elastohydrodynamic lubrication (EHL). Friction, 2021, 9, 207-227. | 3.4 | 15 |
| 16 | Low-Rank Joint Embedding and Its Application for Robust Process Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13. | 2.4 | 14 |
| 17 | Computer-Aided Design. , 2021, , 35-116. | | 0 |
| 18 | Digital Manufacturing (DM). , 2021, , 389-424. | | 1 |

2

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Computer-Aided Engineering (CAE). , 2021, , 117-222. | | 0 |
| 20 | Human Civilization, Products, and Manufacturing. , 2021, , 1-33. | | 0 |
| 21 | Practical Guide to Digital Manufacturing. , 2021, , . | | 3 |
| 22 | Fatigue Analysis of Actuators with Teflon Impregnated Coating—Challenges in Numerical Simulation. Actuators, 2021, 10, 82. | 1.2 | 0 |
| 23 | Generic Design Methodology for Smart Manufacturing Systems from a Practical Perspective. Part Il—Systematic Designs of Smart Manufacturing Systems. Machines, 2021, 9, 208. | 1.2 | 10 |
| 24 | Generic Design Methodology for Smart Manufacturing Systems from a Practical Perspective, Part l—Digital Triad Concept and Its Application as a System Reference Model. Machines, 2021, 9, 207. | 1.2 | 8 |
| 25 | Computer Integrated Manufacturing (CIM). , 2021, , 321-388. | | 0 |
| 26 | Testing Platform of Chains and Sprockets for Conveyer System Designs. Procedia Manufacturing, 2021, 55, 96-101. | 1.9 | 0 |
| 27 | Blockchain-based business process management (BPM) framework for service composition in industry 4.0. Journal of Intelligent Manufacturing, 2020, 31, 1737-1748. | 4.4 | 145 |
| 28 | Specification Patterns of Service-Based Applications Using Blockchain Technology. IEEE Transactions on Computational Social Systems, 2020, 7, 886-896. | 3.2 | 27 |
| 29 | Service selection and workflow composition in modern business processes. Journal of Industrial Information Integration, 2020, 17, 100126. | 4.3 | 17 |
| 30 | State-of-the-Art control strategies for robotic PiH assembly. Robotics and Computer-Integrated Manufacturing, 2020, 65, 101894. | 6.1 | 49 |
| 31 | Blockchain Technology for Applications in Internet of Things—Mapping From System Design Perspective. IEEE Internet of Things Journal, 2019, 6, 8155-8168. | 5.5 | 112 |
| 32 | New Blockchain-Based Architecture for Service Interoperations in Internet of Things. IEEE Transactions on Computational Social Systems, 2019, 6, 739-748. | 3.2 | 80 |
| 33 | Blockchain and Internet of Things for Modern Business Process in Digital Economy—the State of the Art. IEEE Transactions on Computational Social Systems, 2019, 6, 1420-1432. | 3.2 | 116 |
| 34 | A short-term energy prediction system based on edge computing for smart city. Future Generation Computer Systems, 2019, 101, 444-457. | 4.9 | 54 |
| 35 | Simulation-Based Design and Optimization of Accelerometers Subject to High-Temperature and High-Impact Loads. Sensors, 2019, 19, 3759. | 2.1 | 3 |
| 36 | Comprehensive Study on the Impact of Sternotomy Wires on UWB WBAN Channel Characteristics on the Human Chest Area. IEEE Access, 2019, 7, 74670-74682. | 2.6 | 16 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A Max-Min Ant System Approach to Autonomous Navigation. , 2019, , . | | 1 |
| 38 | Friction predication on pin-to-plate interface of PTFE material and steel. Friction, 2019, 7, 268-281. | 3.4 | 12 |
| 39 | Managing QoS of Internet-of-Things Services Using Blockchain. IEEE Transactions on Computational Social Systems, 2019, 6, 1357-1368. | 3.2 | 55 |
| 40 | New CAD/CAM course framework in digital manufacturing. Computer Applications in Engineering Education, 2019, 27, 128-144. | 2.2 | 13 |
| 41 | rmSWSpec: Real-Time Monitoring of Service Workflow Specification Language for Specification Patterns. IEEE Transactions on Industrial Informatics, 2019, 15, 4021-4032. | 7.2 | 12 |
| 42 | Overview of Testing Platform for Development of Integrated Robotic Systems at NIST. , 2019, , . | | 0 |
| 43 | Design of Human Health Monitoring System Based on NB-IoT. , 2019, , . | | 6 |
| 44 | Modelling and verification of fatigue damage for compliant mechanisms. Robotica, 2019, 37, 1-17. | 1.3 | 20 |
| 45 | Tribological behavior of cBN-WC-10Co composites for dry reciprocating sliding wear. Ceramics International, 2019, 45, 6447-6458. | 2.3 | 30 |
| 46 | Experiments on formation mechanism of root humping in high-power laser autogenous welding of thick plates with stainless steels. Optics and Laser Technology, 2019, 111, 11-19. | 2.2 | 16 |
| 47 | The Extension of Semantic Formalization of Service Workflow Specification Language. IEEE Transactions on Industrial Informatics, 2019, 15, 741-754. | 7.2 | 20 |
| 48 | Modeling and Quantification of Impact of Psychological Factors on Rehabilitation of Stroke Patients. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 683-692. | 3.9 | 6 |
| 49 | Modeling and prediction of fatigue life of robotic components in intelligent manufacturing. Journal of Intelligent Manufacturing, 2019, 30, 2575-2585. | 4.4 | 10 |
| 50 | Real-time force monitoring of smart grippers for Internet of Things (IoT) applications. Journal of Industrial Information Integration, 2018, 11, 19-28. | 4.3 | 38 |
| 51 | Wear mechanism of single cBN-WC-10Co fiber cutter in machining of Ti-6Al-4V alloy. Journal of Materials Processing Technology, 2018, 259, 45-57. | 3.1 | 33 |
| 52 | Extension of specification language for soundness and completeness of service workflow. Enterprise Information Systems, 2018, 12, 638-657. | 3.3 | 19 |
| 53 | Simulation and experiment of cutting characteristics for single cBN-WC-10Co fiber. Precision Engineering, 2018, 52, 170-182. | 1.8 | 27 |
| 54 | Instrumentation and self-repairing control for resilient multi-rotor aircrafts. Industrial Robot, 2018, 45, 647-656. | 1.2 | 8 |

| | Z ниміng Bi | | |
|---|-------------------------|-----|-----------|
| Article | | IF | CITATIONS |
| Automation of Electrical Cable Harnesses Testing. Robotics, 2018, 7, 1. | | 2.1 | 36 |
| Overview of Finite Element Analysis. , 2018, , 1-29. | | | 18 |
| Automated testing of electrical cable harnesses. , 2018, , . | | | 2 |
| Instrumentation of robotic grippers for dynamic control of robotic systems. , 2018, , . | | | 1 |
| Mechanisms for Improvement of Weld Appearance in Autogenous Fiber Laser Welding Stainless Steels. Metals, 2018, 8, 625. | g of Thick | 1.0 | 9 |
| A new approach for image databases design. Information Technology and Managemer | nt, 2017, 18, 97-105. | 1.4 | 6 |
| An adaptive genetic algorithm for demand-driven and resource-constrained project scl aircraft assembly. Information Technology and Management, 2017, 18, 41-53. | neduling in | 1.4 | 16 |
| An industrial information integration approach to in-orbit spacecraft. Enterprise Inforn Systems, 2017, 11, 86-104. | nation | 3.3 | 8 |
| Expert-guided evolutionary algorithm for layout design of complex space stations. Ent Information Systems, 2017, 11, 1078-1093. | erprise | 3.3 | 6 |
| IoT-based system for communication and coordination of football robot team. Interne 27, 162-181. | t Research, 2017, | 2.7 | 33 |
| Embracing Internet of Things (IoT) and big data for industrial informatics. Enterprise Ir Systems, 2017, 11, 949-951. | formation | 3.3 | 25 |
| Grinding characteristics of cBN-WC-10Co composites. Ceramics International, 2017, 4 | 13, 16539-16547. | 2.3 | 46 |
| Use of the manufacturing system design decomposition for comparative analysis and of production systems. International Journal of Production Research, 2017, 55, 870-89 | effective design 90. | 4.9 | 48 |
| Modelling of human–machine interaction in equipment design of manufacturing cel Information Systems, 2017, 11, 969-987. | ls. Enterprise | 3.3 | 14 |
| Research of home environment surveillance system based on wireless sensor network. | .,2017,,. | | 5 |

- Micromanipulation Tools. Microsystems and Nanosystems, 2017, , 547-561. 70 0.11 Analysis of Human-Machine Cooperative Robot and haptic interaction for stroke rehabilitation., 2017,
- Extension of Manufacturing System Design Decomposition to Implement Manufacturing Systems That are Sustainable. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 72 1.3 35 138,.

#

56

58

60

62

64

66

68

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Fatigue life modeling of linear actuators in robotics and automation. , 2016, , . | | 2 |
| 74 | Finite element analysis for diagnosis of fatigue failure of composite materials in product development. International Journal of Advanced Manufacturing Technology, 2016, 87, 2245-2257. | 1.5 | 9 |
| 75 | Integrating everyday examples in mechanical engineering courses for teaching enhancement. International Journal of Mechanical Engineering Education, 2016, 44, 16-28. | 0.6 | 7 |
| 76 | Manufacturing System Design Meets Big Data Analytics for Continuous Improvement. Procedia CIRP, 2016, 50, 647-652. | 1.0 | 25 |
| 77 | Incorporating design improvement with effective evaluation using the Manufacturing System Design Decomposition (MSDD). Journal of Industrial Information Integration, 2016, 2, 65-74. | 4.3 | 18 |
| 78 | A visualization platform for internet of things in manufacturing applications. Internet Research, 2016, 26, 377-401. | 2.7 | 42 |
| 79 | Cloud computing in human resource management (HRM) system for small and medium enterprises (SMEs). International Journal of Advanced Manufacturing Technology, 2016, 84, 485-496. | 1.5 | 37 |
| 80 | A new method to identify collaborative partners in social service provider networks. Information Systems Frontiers, 2016, 18, 565-578. | 4.1 | 21 |
| 81 | The wireless sensor network of the family environment monitoring system research. , 2016, , . | | 1 |
| 82 | Recent Development of Rehabilitation Robots. Advances in Mechanical Engineering, 2015, 7, 563062. | 0.8 | 49 |
| 83 | An emerging technology $\hat{a} \in$ wearable wireless sensor networks with applications in human health condition monitoring. Journal of Management Analytics, 2015, 2, 121-137. | 1.6 | 68 |
| 84 | An integrated systems approach to plateau ecosystem management—a scientific application in Qinghai and Tibet plateau. Information Systems Frontiers, 2015, 17, 337-350. | 4.1 | 10 |
| 85 | Support vector machine and ROC curves for modeling of aircraft fuel consumption. Journal of Management Analytics, 2015, 2, 22-34. | 1.6 | 23 |
| 86 | Risk assessment model based on multi-agent systems for complex product design. Information Systems Frontiers, 2015, 17, 363-385. | 4.1 | 24 |
| 87 | A new methodology to support group decision-making for IoT-based emergency response systems. Information Systems Frontiers, 2014, 16, 953-977. | 4.1 | 57 |
| 88 | Big data analytics with applications. Journal of Management Analytics, 2014, 1, 249-265. | 1.6 | 119 |
| 89 | A supportive architecture for CFD-based design optimisation. Enterprise Information Systems, 2014, 8, 246-278. | 3.3 | 8 |
| 90 | A Knowledge Engineering Framework for Identifying Key Impact Factors from Safetyâ€Related Accident Cases. Systems Research and Behavioral Science, 2014, 31, 383-397. | 0.9 | 15 |

Zhuming Bi

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | An Analogical Induction Approach to Technology Standardization and Technology Development. Systems Research and Behavioral Science, 2014, 31, 366-382. | 0.9 | 14 |
| 92 | Feature weighted naìve Bayes algorithm for information retrieval of enterprise systems. Enterprise Information Systems, 2014, 8, 107-120. | 3.3 | 6 |
| 93 | Reconfiguring machines to achieve system adaptability and sustainability: A practical case study. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 1676-1688. | 1.5 | 21 |
| 94 | Extended Interference Matrices for Exploded View of Assembly Planning. IEEE Transactions on Automation Science and Engineering, 2014, 11, 279-286. | 3.4 | 55 |
| 95 | Data Cleaning for RFID and WSN Integration. IEEE Transactions on Industrial Informatics, 2014, 10, 408-418. | 7.2 | 167 |
| 96 | Modeling and optimization of two-stage procurement in dual-channel supply chain. Information Technology and Management, 2014, 15, 109. | 1.4 | 5 |
| 97 | Kinetostatic modeling of Exechon parallel kinematic machine for stiffness analysis. International Journal of Advanced Manufacturing Technology, 2014, 71, 325-335. | 1.5 | 41 |
| 98 | Relationship-specific investment, value creation, and value appropriation in cooperative innovation. Information Technology and Management, 2014, 15, 119. | 1.4 | 11 |
| 99 | Internet of Things for Enterprise Systems of Modern Manufacturing. IEEE Transactions on Industrial Informatics, 2014, 10, 1537-1546. | 7.2 | 529 |
| 100 | IoT and Cloud Computing in Automation of Assembly Modeling Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 1426-1434. | 7.2 | 207 |
| 101 | A semantics-based method for clustering of Chinese web search results. Enterprise Information Systems, 2014, 8, 147-165. | 3.3 | 7 |
| 102 | Determination of Weights for Multiobjective Decision Making or Machine Learning. IEEE Systems Journal, 2014, 8, 63-72. | 2.9 | 16 |
| 103 | Object-Oriented Templates for Automated Assembly Planning of Complex Products. IEEE Transactions on Automation Science and Engineering, 2014, 11, 492-503. | 3.4 | 93 |
| 104 | Sensing and responding to the changes of geometric surfaces in flexible manufacturing and assembly. Enterprise Information Systems, 2014, 8, 225-245. | 3.3 | 37 |
| 105 | Enterprise Information Systems Architecture—Analysis and Evaluation. IEEE Transactions on Industrial Informatics, 2013, 9, 2147-2154. | 7.2 | 93 |
| 106 | A Rough Programming Model Based on the Greatest Compatible Classes and Synthesis Effect. Systems Research and Behavioral Science, 2013, 30, 229-243. | 0.9 | 13 |
| 107 | Operations Research (OR) in Service Industries: A Comprehensive Review. Systems Research and Behavioral Science, 2013, 30, 300-353. | 0.9 | 83 |
| 108 | A Novel Human–Machine Collaborative Interface for Aero-Engine Pipe Routing. IEEE Transactions on Industrial Informatics, 2013, 9, 2187-2199. | 7.2 | 31 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | An integrated environment for visualization of distributed wireless sensor networks. , 2013, , . | | 2 |
| 110 | Developing a rapid response production system for aircraft manufacturing. International Journal of Production Economics, 2013, 146, 37-47. | 5.1 | 13 |
| 111 | An integrated cost-based approach for real estate appraisals. Information Technology and Management, 2013, 15, 131. | 1.4 | 8 |
| 112 | Formulation and Validation of Multidisciplinary Design Problem on Wear and Fatigue Life of Lead Screw Actuators. Mathematical Problems in Engineering, 2013, 2013, 1-10. | 0.6 | 7 |
| 113 | Multidisciplinary Design Optimization in Engineering. Mathematical Problems in Engineering, 2013, 2013, 1-2. | 0.6 | 4 |
| 114 | An optimisation method for complex product design. Enterprise Information Systems, 2013, 7, 470-489. | 3.3 | 27 |
| 115 | Applying Electromagnetic Field Theory to Study the Synergistic Relationships Between Technology Standardization and Technology Development. Systems Research and Behavioral Science, 2013, 30, 272-286. | 0.9 | 14 |
| 116 | Design of a spherical parallel kinematic machine for ankle rehabilitation. Advanced Robotics, 2013, 27, 121-132. | 1.1 | 26 |
| 117 | An application of enterprise systems in quality management of products. Information Technology and Management, 2012, 13, 389-402. | 1.4 | 25 |
| 118 | AutoAssem: An Automated Assembly Planning System for Complex Products. IEEE Transactions on Industrial Informatics, 2012, 8, 669-678. | 7.2 | 185 |
| 119 | Optimization of machining processes from the perspective of energy consumption: A case study. Journal of Manufacturing Systems, 2012, 31, 420-428. | 7.6 | 117 |
| 120 | Development and Control of a 5-Axis Reconfigurable Machine Tool. Journal of Robotics, 2011, 2011, 1-9. | 0.6 | 10 |
| 121 | Revisiting System Paradigms from the Viewpoint of Manufacturing Sustainability. Sustainability, 2011, 3, 1323-1340. | 1.6 | 114 |
| 122 | Design and simulation of dust extraction for composite drilling. International Journal of Advanced Manufacturing Technology, 2011, 54, 629-638. | 1.5 | 3 |
| 123 | Kinematic modeling of Exechon parallel kinematic machine. Robotics and Computer-Integrated Manufacturing, 2011, 27, 186-193. | 6.1 | 163 |
| 124 | Motion Purity of Robotic Mechanisms with Desired and Undesired Motions. Advanced Robotics, 2011, 25, 1539-1556. | 1.1 | 3 |
| 125 | The general architecture of adaptive robotic systems for manufacturing applications. Robotics and Computer-Integrated Manufacturing, 2010, 26, 461-470. | 6.1 | 46 |
| 126 | Advances in 3D data acquisition and processing for industrial applications. Robotics and Computer-Integrated Manufacturing, 2010, 26, 403-413. | 6.1 | 165 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Dynamic control model of a cobot with three omni-wheels. Robotics and Computer-Integrated Manufacturing, 2010, 26, 558-563. | 6.1 | 21 |
| 128 | Computer integrated reconfigurable experimental platform for ergonomic study of vehicle body design. International Journal of Computer Integrated Manufacturing, 2010, 23, 968-978. | 2.9 | 17 |
| 129 | Joint workspace of parallel kinematic machines. Robotics and Computer-Integrated Manufacturing, 2009, 25, 57-63. | 6.1 | 26 |
| 130 | Design and kinetostatic analysis of a new parallel manipulator. Robotics and Computer-Integrated Manufacturing, 2009, 25, 782-791. | 6.1 | 67 |
| 131 | Optimal design of reconfigurable parallel machining systems. Robotics and Computer-Integrated Manufacturing, 2009, 25, 951-961. | 6.1 | 56 |
| 132 | Improved control and simulation models of a tricycle collaborative robot. Journal of Intelligent Manufacturing, 2008, 19, 715-722. | 4.4 | 17 |
| 133 | Reconfigurable manufacturing systems: the state of the art. International Journal of Production Research, 2008, 46, 967-992. | 4.9 | 344 |
| 134 | Kinematic, Dynamic Modeling and Remote Control of a Robotic Machine. , 2007, , . | | 0 |
| 135 | Theoretical Design and Control Analysis of Reconfigurable Parallel Kinematic Machine Tools. , 2007, , . | | 0 |
| 136 | A Framework for CAD- and Sensor-Based Robotic Coating Automation. IEEE Transactions on Industrial Informatics, 2007, 3, 84-91. | 7.2 | 44 |
| 137 | Automated geneartion of the D–H parameters for configuration design of modular manipulators. Robotics and Computer-Integrated Manufacturing, 2007, 23, 553-562. | 6.1 | 46 |
| 138 | Kinematic and dynamic models of a tripod system with a passive leg. IEEE/ASME Transactions on Mechatronics, 2006, 11, 108-111. | 3.7 | 19 |
| 139 | Automated modeling of modular robotic configurations. Robotics and Autonomous Systems, 2006, 54, 1015-1025. | 3.0 | 30 |
| 140 | Analysis and Synthesis of Reconfigurable Robotic Systems. Concurrent Engineering Research and Applications, 2004, 12, 145-153. | 2.0 | 21 |
| 141 | Flexible fixture design and automation: Review, issues and future directions. International Journal of Production Research, 2001, 39, 2867-2894. | 4.9 | 208 |
| 142 | Modularity Technology in Manufacturing: Taxonomy and Issues. International Journal of Advanced Manufacturing Technology, 2001, 18, 381-390. | 1.5 | 91 |
| 143 | A generic Petri net model for flexible manufacturing systems and its use for FMS control software testing. International Journal of Production Research, 2000, 38, 1109-1131. | 4.9 | 21 |
| 144 | Function Approximation through an Efficient Neural Networks Method. , 0, , . | | 2 |