

Andres Bustillo

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,163
citations

236612

25
h-index

233125

45
g-index

67
all docs

67
docs citations

67
times ranked

1928
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A review of immersive virtual reality serious games to enhance learning and training. <i>Multimedia Tools and Applications</i> , 2020, 79, 5501-5527. | 2.6 | 314 |
| 2 | An SVM-Based Solution for Fault Detection in Wind Turbines. <i>Sensors</i> , 2015, 15, 5627-5648. | 2.1 | 167 |
| 3 | Predicting tool life in turning operations using neural networks and image processing. <i>Mechanical Systems and Signal Processing</i> , 2018, 104, 503-513. | 4.4 | 157 |
| 4 | Artificial intelligence for automatic prediction of required surface roughness by monitoring wear on face mill teeth. <i>Journal of Intelligent Manufacturing</i> , 2018, 29, 1045-1061. | 4.4 | 139 |
| 5 | Artificial intelligence systems for tool condition monitoring in machining: analysis and critical review. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 2079-2121. | 4.4 | 90 |
| 6 | Using artificial neural networks for the prediction of dimensional error on inclined surfaces manufactured by ball-end milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 847-859. | 1.5 | 84 |
| 7 | Tool wear monitoring using neuro-fuzzy techniques: a comparative study in a turning process. <i>Journal of Intelligent Manufacturing</i> , 2012, 23, 869-882. | 4.4 | 76 |
| 8 | Smart optimization of a friction-drilling process based on boosting ensembles. <i>Journal of Manufacturing Systems</i> , 2018, 48, 108-121. | 7.6 | 70 |
| 9 | Effect of the Relative Position of the Face Milling Tool towards the Workpiece on Machined Surface Roughness and Milling Dynamics. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 842. | 1.3 | 62 |
| 10 | Using artificial intelligence models for the prediction of surface wear based on surface isotropy levels. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018, 53, 215-227. | 6.1 | 61 |
| 11 | Modeling pulsed laser micromachining of micro geometries using machine-learning techniques. <i>Journal of Intelligent Manufacturing</i> , 2015, 26, 801-814. | 4.4 | 59 |
| 12 | Advantages and limits of virtual reality in learning processes: Briviesca in the fifteenth century. <i>Virtual Reality</i> , 2020, 24, 151-161. | 4.1 | 59 |
| 13 | Machine-learning for automatic prediction of flatness deviation considering the wear of the face mill teeth. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 895-912. | 4.4 | 58 |
| 14 | Identifying maximum imbalance in datasets for fault diagnosis of gearboxes. <i>Journal of Intelligent Manufacturing</i> , 2018, 29, 333-351. | 4.4 | 50 |
| 15 | Using artificial intelligence to predict surface roughness in deep drilling of steel components. <i>Journal of Intelligent Manufacturing</i> , 2012, 23, 1893-1902. | 4.4 | 40 |
| 16 | A machine-learning based solution for chatter prediction in heavy-duty milling machines. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 128, 34-44. | 2.5 | 40 |
| 17 | Improving the accuracy of machine-learning models with data from machine test repetitions. <i>Journal of Intelligent Manufacturing</i> , 2022, 33, 203-221. | 4.4 | 40 |
| 18 | A flexible platform for the creation of 3D semi-immersive environments to teach Cultural Heritage. <i>Digital Applications in Archaeology and Cultural Heritage</i> , 2015, 2, 248-259. | 0.9 | 39 |

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|----|--|-----|-----------|
| 19 | Avoiding neural network fine tuning by using ensemble learning: application to ball-end milling operations. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 57, 521-532. | 1.5 | 36 |
| 20 | Immersive virtual-reality computer-assembly serious game to enhance autonomous learning. <i>Virtual Reality</i> , 2023, 27, 3301-3318. | 4.1 | 35 |
| 21 | The evolutionary development of roughness prediction models. <i>Applied Soft Computing Journal</i> , 2013, 13, 2913-2922. | 4.1 | 29 |
| 22 | Prediction, monitoring and control of surface roughness in high-torque milling machine operations. <i>International Journal of Computer Integrated Manufacturing</i> , 2012, 25, 1129-1138. | 2.9 | 28 |
| 23 | A regression-tree multilayer-perceptron hybrid strategy for the prediction of ore crushing-plate lifetimes. <i>Journal of Advanced Research</i> , 2019, 18, 173-184. | 4.4 | 26 |
| 24 | Modelling of process parameters in laser polishing of steel components using ensembles of regression trees. <i>International Journal of Computer Integrated Manufacturing</i> , 2011, 24, 735-747. | 2.9 | 25 |
| 25 | A soft computing system using intelligent imputation strategies for roughness prediction in deep drilling. <i>Journal of Intelligent Manufacturing</i> , 2012, 23, 1733-1743. | 4.4 | 25 |
| 26 | Online breakage detection of multitooth tools using classifier ensembles for imbalanced data. <i>International Journal of Systems Science</i> , 2014, 45, 2590-2602. | 3.7 | 25 |
| 27 | Data-mining modeling for the prediction of wear on forming-taps in the threading of steel components. <i>Journal of Computational Design and Engineering</i> , 2016, 3, 337-348. | 1.5 | 23 |
| 28 | Semi-supervised roughness prediction with partly unlabeled vibration data streams. <i>Journal of Intelligent Manufacturing</i> , 2019, 30, 933-945. | 4.4 | 22 |
| 29 | Use of machine learning algorithms for surface roughness prediction of printed parts in polyvinyl butyral via fused deposition modeling. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 2465-2475. | 1.5 | 21 |
| 30 | Improvement of surface roughness models for face milling operations through dimensionality reduction. <i>Integrated Computer-Aided Engineering</i> , 2012, 19, 179-197. | 2.5 | 20 |
| 31 | A Virtual Sensor for Online Fault Detection of Multitooth-Tools. <i>Sensors</i> , 2011, 11, 2773-2795. | 2.1 | 18 |
| 32 | A new approach for machine's management: from machine's signal acquisition to energy indexes. <i>Journal of Cleaner Production</i> , 2016, 137, 1503-1515. | 4.6 | 18 |
| 33 | A Framework for Educational and Training Immersive Virtual Reality Experiences. <i>Lecture Notes in Computer Science</i> , 2020, , 220-228. | 1.0 | 18 |
| 34 | Awareness, Prevention, Detection, and Therapy Applications for Depression and Anxiety in Serious Games for Children and Adolescents: Systematic Review. <i>JMIR Serious Games</i> , 2021, 9, e30482. | 1.7 | 17 |
| 35 | Interpreting tree-based prediction models and their data in machining processes. <i>Integrated Computer-Aided Engineering</i> , 2016, 23, 349-367. | 2.5 | 16 |
| 36 | A decision-making tool based on decision trees for roughness prediction in face milling. <i>International Journal of Computer Integrated Manufacturing</i> , 2017, 30, 943-957. | 2.9 | 16 |

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|----|--|-----|-----------|
| 37 | New methodology for the design of ultra-light structural components for machine tools. International Journal of Computer Integrated Manufacturing, 2015, 28, 339-352. | 2.9 | 14 |
| 38 | Random Forest ensemble prediction of stent dimensions in microfabrication processes. International Journal of Advanced Manufacturing Technology, 2017, 91, 879-893. | 1.5 | 14 |
| 39 | Virtual Reality Training Application for the Condition-Based Maintenance of Induction Motors. Applied Sciences (Switzerland), 2022, 12, 414. | 1.3 | 13 |
| 40 | Sensitivity Analysis of Tool Wear in Drilling of Titanium Aluminides. Metals, 2019, 9, 297. | 1.0 | 12 |
| 41 | Selection of machining parameters with Android application made using MIT App Inventor bookmarks. Procedia Manufacturing, 2018, 22, 172-179. | 1.9 | 8 |
| 42 | Briviesca in the 15th c.: A Virtual Reality Environment for Teaching Purposes. Lecture Notes in Computer Science, 2016, , 126-138. | 1.0 | 8 |
| 43 | Wind Turbines Fault Diagnosis Using Ensemble Classifiers. Lecture Notes in Computer Science, 2012, , 67-76. | 1.0 | 7 |
| 44 | New strategy for the optimal design and manufacture of high performance milling heads. Revista De Metalurgia, 2011, 47, 426-476. | 0.1 | 7 |
| 45 | Using Machine-Learning techniques and Virtual Reality to design cutting tools for energy optimization in milling operations. International Journal of Computer Integrated Manufacturing, 2022, 35, 951-971. | 2.9 | 7 |
| 46 | Boosting Projections to improve surface roughness prediction in high-torque milling operations. Soft Computing, 2012, 16, 1427-1437. | 2.1 | 5 |
| 47 | High-accuracy classification of thread quality in tapping processes with ensembles of classifiers for imbalanced learning. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108328. | 2.5 | 5 |
| 48 | Industrial Heritage Seen Through the Lens of a Virtual Reality Experience. Lecture Notes in Computer Science, 2017, , 116-130. | 1.0 | 5 |
| 49 | VIRTUAL REALITY OPPORTUNITIES IN THE REDUCTION OF OCCUPATIONAL HAZARDS IN INDUSTRY 4.0. Dyna (Spain), 2021, 96, 620-626. | 0.1 | 5 |
| 50 | Measuring the Impact of Low-Cost Short-Term Virtual Reality on the User Experience. Lecture Notes in Computer Science, 2017, , 320-336. | 1.0 | 4 |
| 51 | AI for Modelling the Laser Milling of Copper Components. Lecture Notes in Computer Science, 2008, , 498-507. | 1.0 | 4 |
| 52 | Virtual Reality Travel Training Simulator for People with Intellectual Disabilities. Lecture Notes in Computer Science, 2019, , 385-393. | 1.0 | 3 |
| 53 | Networked Control Based on Fuzzy Logic. An Application to a High-Performance Milling Process. Lecture Notes in Computer Science, 2007, , 391-398. | 1.0 | 3 |
| 54 | A Soft Computing System to Perform Face Milling Operations. Lecture Notes in Computer Science, 2009, , 1282-1291. | 1.0 | 3 |

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|----|--|-----|-----------|
| 55 | Development of pulsed UV lasers and their application in laser spectroscopy. Journal of Physics: Conference Series, 2011, 274, 012088. | 0.3 | 1 |
| 56 | Towards higher machine-tool eco-efficiency with an Information Sharing Platform. , 2013, , . | | 1 |
| 57 | Using a Short Video Animation to Assist with the Diagnosis of Sleep Disorders in Young Children. Lecture Notes in Computer Science, 2016, , 13-29. | 1.0 | 1 |
| 58 | MACHINING OPTIMIZATION OF LARGE CASTING COMPONENTS BY REMOTE MONITORING AND 3D VISUALIZATION TECHNIQUES. Dyna (Spain), 2018, 93, 668-674. | 0.1 | 1 |
| 59 | Considering User Experience Parameters in the Evaluation of VR Serious Games. Lecture Notes in Computer Science, 2020, , 186-193. | 1.0 | 1 |
| 60 | Conventional Methods and AI models for Solving an Industrial an Industrial Problem. , 2008, , . | | 0 |
| 61 | A Soft Computing System for Modelling the Manufacture of Steel Components. , 2010, , 127-142. | | 0 |
| 62 | Improvements in Modelling of Complex Manufacturing Processes Using Classification Techniques. Lecture Notes in Computer Science, 2013, , 664-673. | 1.0 | 0 |
| 63 | Virtual reality-based tool applied in the teaching and training of condition-based maintenance in induction motors. , 2021, , . | | 0 |