

Ivan Kuric

List of Publications by Year in descending order

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55
papers

656
citations

567281

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642732

23
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58
all docs

58
docs citations

58
times ranked

506
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Development of simulation software for mobile robot path planning within multilayer map system based on metric and topological maps. International Journal of Advanced Robotic Systems, 2017, 14, 172988141774302. | 2.1 | 60 |
| 2 | Application of optimization algorithms for robot systems designing. International Journal of Advanced Robotic Systems, 2018, 15, 172988141775415. | 2.1 | 43 |
| 3 | Parameter Identification of Cutting Forces in Crankshaft Grinding Using Artificial Neural Networks. Materials, 2020, 13, 5357. | 2.9 | 41 |
| 4 | Measurement of industrial robot pose repeatability. MATEC Web of Conferences, 2018, 244, 01015. | 0.2 | 33 |
| 5 | Ensuring Vibration Reliability of Turbopump Units Using Artificial Neural Networks. Lecture Notes in Mechanical Engineering, 2019, , 165-175. | 0.4 | 32 |
| 6 | Complex analysis focused on influence of biodiesel and its mixture on regulated and unregulated emissions of motor vehicles with the aim to protect air quality and environment. Air Quality, Atmosphere and Health, 2019, 12, 855-864. | 3.3 | 29 |
| 7 | Improvement of Parameters for the Multi-Functional Oil-Gas Separator of "HEATER-TREATER" Type. , 2019, , . | | 27 |
| 8 | Case study: Performance analysis and development of robotized screwing application with integrated vision sensing system for automotive industry. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092399. | 2.1 | 25 |
| 9 | ANALYTICAL INTELLIGENCE TOOLS FOR MULTICRITERIAL DIAGNOSTICS OF CNC MACHINES. Advances in Science and Technology Research Journal, 2016, 10, 59-64. | 0.8 | 25 |
| 10 | Visual Product Inspection Based on Deep Learning Methods. Lecture Notes in Mechanical Engineering, 2020, , 148-156. | 0.4 | 24 |
| 11 | Utilization of Strategies to Generate and Optimize Machining Sequences in CAD/CAM. Procedia Engineering, 2017, 192, 113-118. | 1.2 | 22 |
| 12 | The peculiarities of monitoring road vehicle performance and environmental impact. MATEC Web of Conferences, 2018, 244, 03003. | 0.2 | 21 |
| 13 | WORKSHOP PROGRAMMING AS PART OF TECHNOLOGICAL PREPARATION OF PRODUCTION. Advances in Science and Technology Research Journal, 2017, 11, 111-116. | 0.8 | 21 |
| 14 | Determination of the Industrial Robot Positioning Performance. MATEC Web of Conferences, 2017, 137, 01004. | 0.2 | 19 |
| 15 | Diagnostics of CNC Machine Tools in Manufacturing Process with Laser Interferometer Technology. Manufacturing Technology, 2014, 14, 23-30. | 1.4 | 19 |
| 16 | Analysis of Diagnostic Methods and Energy of Production Systems Drives. Processes, 2021, 9, 843. | 2.8 | 18 |
| 17 | The Complex Application of Monitoring and Express Diagnosing for Searching Failures on Common Rail System Units. , 2018, , . | | 17 |
| 18 | Examination of industrial robot performance parameters utilizing machine tool diagnostic methods. International Journal of Advanced Robotic Systems, 2020, 17, 172988142090572. | 2.1 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Industrial Robot Positioning Performance Measured on Inclined and Parallel Planes by Double Ballbar. Applied Sciences (Switzerland), 2021, 11, 1777. | 2.5 | 15 |
| 20 | Utilization of multilayer perceptron for determining the inverse kinematics of an industrial robotic manipulator. International Journal of Advanced Robotic Systems, 2021, 18, 172988142092528. | 2.1 | 15 |
| 21 | Collaborative assembly task realization using selected type of a human-robot interaction. Transportation Research Procedia, 2019, 40, 541-547. | 1.5 | 14 |
| 22 | Analysis of the Possibilities of Tire-Defect Inspection Based on Unsupervised Learning and Deep Learning. Sensors, 2021, 21, 7073. | 3.8 | 11 |
| 23 | Improving the Process of Vehicle Units Diagnosis by Applying Harmonic Analysis to the Processing of Discrete Signals. , 0, , . | | 10 |
| 24 | Approach to Automated Visual Inspection of Objects Based on Artificial Intelligence. Applied Sciences (Switzerland), 2022, 12, 864. | 2.5 | 10 |
| 25 | Design of the clamping system for the CNC machine tool. MATEC Web of Conferences, 2017, 137, 01003. | 0.2 | 9 |
| 26 | Cost Estimation Methods of Machine Elements at the Design Stage in Unit and Small Lot Production Conditions. Management Systems in Production Engineering, 2019, 27, 12-17. | 1.1 | 9 |
| 27 | Implementation of Predictive Models in Industrial Machines with Proposed Automatic Adaptation Algorithm. Applied Sciences (Switzerland), 2022, 12, 1853. | 2.5 | 7 |
| 28 | Circular and quasi-circular paths for the industrial robots measuring with the Renishaw Ballbar QC20-W. MATEC Web of Conferences, 2019, 254, 05007. | 0.2 | 4 |
| 29 | Design of equipment for training machine tools. MATEC Web of Conferences, 2017, 94, 01003. | 0.2 | 3 |
| 30 | Modelling and Simulation of Machine Tool Prototype with 6DOF Parallel Mechanism in Matlab / Simulink. MATEC Web of Conferences, 2019, 254, 03002. | 0.2 | 3 |
| 31 | Analytical Synthesis of Non-Linear Control Algorithms of a Chemical Reactor Thermal Mode. Processes, 2021, 9, 644. | 2.8 | 3 |
| 32 | Analysis of the Table Motion of a 3-Axis CNC Milling Machine Tool at Start-up and Braking. Lecture Notes in Mechanical Engineering, 2020, , 108-117. | 0.4 | 3 |
| 33 | Analysis of Laser Sensors and Camera Vision in the Shoe Position Inspection System. Sensors, 2021, 21, 7531. | 3.8 | 3 |
| 34 | Impact of Magnetic-Pulse and Chemical-Thermal Treatment on Alloyed Steelsâ€™ Surface Layer. Applied Sciences (Switzerland), 2022, 12, 469. | 2.5 | 3 |
| 35 | Analysis of Symmetrical/Asymmetrical Loading Influence of the Full-Suspension Downhill Bicycleâ€™s Frame on the Crack Failure Formation at a Critical Point during Different Driving Scenarios and Design Improvement. Symmetry, 2022, 14, 255. | 2.2 | 3 |
| 36 | Innovative Development of One-Off and Small Series Products. Applied Mechanics and Materials, 0, 371, 852-856. | 0.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Possibilities of a Robotic End of Arm Tooling Control within the Software Platform ROS. Procedia Engineering, 2017, 192, 875-880. | 1.2 | 2 |
| 38 | Utilization of educational machine tool for training of technical diagnostics based on positioning performance. MATEC Web of Conferences, 2018, 157, 01004. | 0.2 | 2 |
| 39 | The space distribution and transfer of positioning errors from actuators to the TCP point of parallel mechanism. MATEC Web of Conferences, 2018, 157, 02006. | 0.2 | 2 |
| 40 | Reasons for the Formation of Non-Fibrous Inclusions When Preparing Basalt Fibers by the Duplex Method. Materials, 2020, 13, 5033. | 2.9 | 2 |
| 41 | Processing 3D Data from Laser Sensor into Visual Content Using Pattern Recognition. , 2021, , . | | 2 |
| 42 | PROPOSAL OF DEVICE FOR MONITORING OF EDUCATIONAL MACHINE TOOLS. Advances in Science and Technology Research Journal, 2016, 10, 80-86. | 0.8 | 2 |
| 43 | Modification of Clamping System Designated for Automatic Workpiece Exchange. Manufacturing Technology, 2019, 19, 414-418. | 1.4 | 2 |
| 44 | FEM Simulation of Non-proportional Multiaxial Fatigue Damage. MATEC Web of Conferences, 2022, 357, 02006. | 0.2 | 2 |
| 45 | Analysis of Milling Process of Sintered Carbide Workpieces. , 2019, , . | | 1 |
| 46 | Methods of Pre-Identification of TITO Systems. Applied Sciences (Switzerland), 2021, 11, 6954. | 2.5 | 1 |
| 47 | Tool Condition Monitoring System Based on a Texture Descriptors. International Journal of Industrial Engineering and Management, 2018, 9, 167-175. | 2.0 | 1 |
| 48 | Method and Device Based on Multiscan for Measuring the Geometric Parameters of Objects. Processes, 2021, 9, 24. | 2.8 | 1 |
| 49 | Diagnostics of the wire coating production line by implementation of computation methods. , 2018, , . | | 0 |
| 50 | Automation of Quality Control Measurement of Deformable Object Formed by Translation of Closed Planar Curve along an Elliptical Path. , 2019, , . | | 0 |
| 51 | Advanced Preparation of the NC Programs with Usage of Strategy Manager. Lecture Notes in Mechanical Engineering, 2019, , 511-517. | 0.4 | 0 |
| 52 | Design of Laser Scanners Data Processing and Their Use in Visual Inspection System. Lecture Notes in Mechanical Engineering, 2022, , 112-118. | 0.4 | 0 |
| 53 | Comparative Assessment of Wear Indicators in Grinding Discs During Cutting of Selected Steels. Lecture Notes in Mechanical Engineering, 2020, , 196-205. | 0.4 | 0 |
| 54 | Finding input-output dependencies of feed forward neural networks. MATEC Web of Conferences, 2022, 357, 08002. | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Conceptual Design and Simulation of Cable-driven Parallel Robot for Inspection and Monitoring Tasks. MATEC Web of Conferences, 2022, 357, 02024. | 0.2 | 0 |