

Miroslav Mahdal

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Spectral Analysis of Pressure, Noise and Vibration Velocity Measurement in Cavitation. Measurement Science Review, 2017, 17, 250-256. | 0.6 | 14 |
| 2 | Accurate Estimation of Tensile Strength of 3D Printed Parts Using Machine Learning Algorithms. Processes, 2022, 10, 1158. | 1.3 | 13 |
| 3 | Machine-Learning-Assisted Prediction of Maximum Metal Recovery from Spent Zinc-Manganese Batteries. Processes, 2022, 10, 1034. | 1.3 | 11 |
| 4 | An Effective and Secure Mechanism for Phishing Attacks Using a Machine Learning Approach. Processes, 2022, 10, 1356. | 1.3 | 11 |
| 5 | Optimized Solar Energy Power Supply for Remote Wireless Sensors Based on IEEE 802.15.4 Standard. International Journal of Photoenergy, 2012, 2012, 1-9. | 1.4 | 9 |
| 6 | Multi Swarm Optimization Based Clustering with Tabu Search in Wireless Sensor Network. Sensors, 2022, 22, 1736. | 2.1 | 9 |
| 7 | Piezoelectric actuators in the active vibration control system of journal bearings. Journal of Physics: Conference Series, 2017, 870, 012017. | 0.3 | 7 |
| 8 | Optimization of Variable Stiffness Joint in Robot Manipulator Using a Novel NSWOA-MARCOS Approach. Processes, 2022, 10, 1074. | 1.3 | 7 |
| 9 | Measuring the Deflection of a Circular Plate on an Elastic Foundation and Comparison with Analytical and FE Approaches. Applied Mechanics and Materials, 0, 684, 407-412. | 0.2 | 6 |
| 10 | Spectral analysis of gaseous cavitation in water through multiphase mathematical and acoustic methods. Physics of Fluids, 2021, 33, 085128. | 1.6 | 6 |
| 11 | The PID and 2DOF control of the integral system - influence of the 2DOF parameters and practical implementation. Measurement and Control, 2022, 55, 94-101. | 0.9 | 6 |
| 12 | Modelling and simulation of an active damped structure. , 2014, , . | | 5 |
| 13 | High speed current sensing system for welding. IFAC-PapersOnLine, 2019, 52, 139-144. | 0.5 | 5 |
| 14 | Application of a Bandpass Filter for the Active Vibration Control of High-Speed Rotors. , 2019, 24, 608-615. | | 5 |
| 15 | Modal analysis of the cantilever beam. , 2013, , . | | 4 |
| 16 | Scanning of trucks to produce 3D models for analysis of timber loads. , 2016, , . | | 4 |
| 17 | A Study of Factors Influencing Sound Absorption Properties of Porous Materials. Manufacturing Technology, 2019, 19, 156-160. | 0.2 | 4 |
| 18 | Alternative methods of power supply for autonomous intelligent wireless sensors. , 2011, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Solar energy as alternative power supply for communication system IEEE 802.15.4 standard. , 2012, , . | | 3 |
| 20 | Simulation study of using a cascade of all-pass filters in active vibration control of mechanical structures. , 2017, , . | | 3 |
| 21 | Parking House Action Subsystem Control. , 2019, , . | | 3 |
| 22 | Scan Time Reduction of PLCs by Dedicated Parallel-Execution Multiple PID Controllers Using an FPGA. Sensors, 2022, 22, 4584. | 2.1 | 3 |
| 23 | Control of plants with a time delay. , 2012, , . | | 2 |
| 24 | Simulation of the parametric excitation of the cantilever beam vibrations. , 2014, , . | | 2 |
| 25 | Effect of the controller gain on efficiency of active vibration control of sliding bearings. , 2015, , . | | 2 |
| 26 | Application of Kalman filter for high rotational speed measurement. , 2016, , . | | 2 |
| 27 | Measurement of Aerodynamic and Acoustic Quantities Describing Flow around a Body Placed in a Wind Tunnel. Measurement Science Review, 2019, 19, 20-28. | 0.6 | 2 |
| 28 | THEORETICAL AND EXPERIMENTAL ANALYSIS OF THE BEARING JOURNAL MOTION DUE TO FLUID FORCE CAUSED BY THE OIL FILM. MM Science Journal, 2018, 2018, 2466-2472. | 0.2 | 2 |
| 29 | Two dimensional Fourier transform using MATLAB. , 2013, , . | | 1 |
| 30 | Comparising of antialiasing filters in A / D converters. , 2013, , . | | 1 |
| 31 | Laboratory model for active vibration control. , 2015, , . | | 1 |
| 32 | Behaviour of 2DOF controller in the closed-loop control with pneumatic actuator. , 2017, , . | | 1 |
| 33 | Automatically tunable bandpass filter. , 2017, , . | | 1 |
| 34 | CompactRIO control system for active vibration control. , 2018, , . | | 1 |
| 35 | The Welding Current and Voltage Smart Sensor. , 2019, , . | | 1 |
| 36 | Nonlinear Integral System Control. , 2020, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | AN ACTIVELY CONTROLLED JOURNAL BEARING WITH INCREASED RESISTANCE TO INSTABILITY. MM Science Journal, 2019, 2019, 2849-2854. | 0.2 | 1 |
| 38 | Verification method of rotors instability measurement. , 2013, , . | | 0 |
| 39 | SW support for CCC and CQC control charts. , 2014, , . | | 0 |
| 40 | Identification of the noise using mathematical modelling. EPJ Web of Conferences, 2016, 114, 02017. | 0.1 | 0 |
| 41 | Vibration damping of simply supported and fixed beams with the use of piezoactuators. , 2016, , . | | 0 |
| 42 | Experimental measurement of energy harvesting with backpack. , 2017, , . | | 0 |
| 43 | Model of Automatic Parking House. Advances in Science, Technology and Engineering Systems, 2020, 5, 111-115. | 0.4 | 0 |