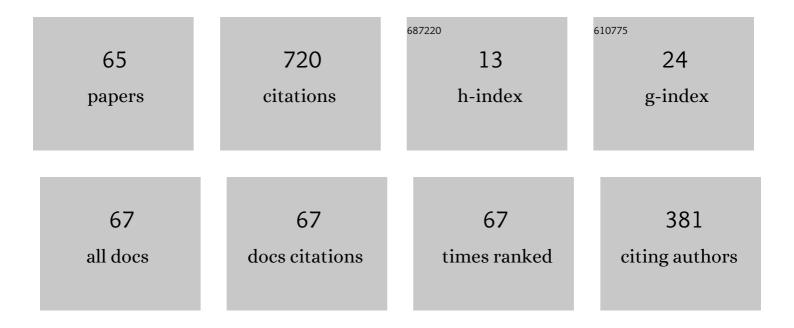
Damir Vrancic

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Reference Model Control of the Time Delayed Double Integrator. IEEE Access, 2022, 10, 39282-39298. | 2.6 | 3 |
| 2 | Tuning of PID Control for the Double Integrator Plus Dead Time Model by Modified Real Dominant Pole and Performance Portrait Methods. Mathematics, 2022, 10, 971. | 1.1 | 15 |
| 3 | Performance Portrait Method: An Intelligent PID Controller Design Based on a Database of Relevant Systems Behaviors. Sensors, 2022, 22, 3753. | 2.1 | 8 |
| 4 | Measurement System for Piezoelectric Resonance Impedance Spectroscopy Under Combined AC and High-Voltage DC Loading. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 3137-3144. | 1.7 | 2 |
| 5 | PID Control With Higher Order Derivative Degrees for IPDT Plant Models. IEEE Access, 2021, 9, 2478-2495. | 2.6 | 28 |
| 6 | Delay Equivalences in Tuning PID Control for the Double Integrator Plus Dead-Time. Mathematics, 2021, 9, 328. | 1.1 | 12 |
| 7 | A Set of Active Disturbance Rejection Controllers Based on Integrator Plus Dead-Time Models. Applied Sciences (Switzerland), 2021, 11, 1671. | 1.3 | 10 |
| 8 | Comparing traditional and constrained disturbance-observer based positional control. Measurement and Control, 2021, 54, 170-178. | 0.9 | 3 |
| 9 | Extending the Model-Based Controller Design to Higher-Order Plant Models and Measurement Noise. Symmetry, 2021, 13, 798. | 1.1 | 13 |
| 10 | 2DOF IMC and Smith-Predictor-Based Control for Stabilised Unstable First Order Time Delayed Plants. Mathematics, 2021, 9, 1064. | 1.1 | 7 |
| 11 | High-Order Filtered PID Controller Tuning Based on Magnitude Optimum. Mathematics, 2021, 9, 1340. | 1.1 | 14 |
| 12 | Dead-Time Compensation for the First-Order Dead-Time Processes: Towards a Broader Overview. Mathematics, 2021, 9, 1519. | 1.1 | 9 |
| 13 | A Simple Analytical Method for Estimation of the Five-Parameter Model: Second-Order with Zero Plus Time Delay. Mathematics, 2021, 9, 1707. | 1.1 | 2 |
| 14 | Making the PI and PID Controller Tuning Inspired by Ziegler and Nichols Precise and Reliable. Sensors, 2021, 21, 6157. | 2.1 | 34 |
| 15 | Practical Validation of a Dual Mode Feedforward-Feedback Control Scheme in an Arduino Kit. Lecture Notes in Electrical Engineering, 2021, , 538-547. | 0.3 | 0 |
| 16 | Asymmetries in the Disturbance Compensation Methods for the Stable and Unstable First Order Plants. Symmetry, 2020, 12, 1595. | 1.1 | 9 |
| 17 | Parametric and Nonparametric PID Controller Tuning Method for Integrating Processes Based on Magnitude Optimum. Applied Sciences (Switzerland), 2020, 10, 6012. | 1.3 | 3 |
| 18 | Improving Noise Attenuation in Modified Filtered Smith Predictor. , 2020, , . | | 2 |

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| 19 | Parametric and Nonparametric PI Controller Tuning Method for Integrating Processes Based on Magnitude Optimum. Applied Sciences (Switzerland), 2020, 10, 1443. | 1.3 | 7 |
| 20 | Active Disturbance Rejection Control for DC Motor Laboratory Plant Learning Object. Information (Switzerland), 2020, 11, 151. | 1.7 | 1 |
| 21 | State-Space Controller as a FOTD Based Generalization of ADRC. , 2020, , . | | 2 |
| 22 | Refrigeration Control Algorithm for Managing Supermarket's Overall Peak Power Demand. IEEE Transactions on Control Systems Technology, 2019, 27, 2279-2286. | 3.2 | 9 |
| 23 | Demand-side improvement of short-term load forecasting using a proactive load management–Âa supermarket use case. Energy and Buildings, 2019, 186, 186-194. | 3.1 | 13 |
| 24 | Control system for automated drift compensation of the stand-alone charge amplifier used for low-frequency measurement. AIP Advances, 2019, 9, . | 0.6 | 6 |
| 25 | Optimizing the operation of a solid oxide fuel cell power system with a supervisory controller based on the extremum-seeking approach. Energy Conversion and Management, 2019, 187, 53-62. | 4.4 | 2 |
| 26 | ADRC as an Exercise for Modeling and Control Design in the State-Space. , 2019, , . | | 3 |
| 27 | Feedforward-feedback control of a solid oxide fuel cell power system. International Journal of Hydrogen Energy, 2018, 43, 6352-6363. | 3.8 | 31 |
| 28 | The magnitude optimum tuning of the PID controller: Improving load disturbance rejection by extending the controller. Transactions of the Institute of Measurement and Control, 2018, 40, 1669-1680. | 1.1 | 5 |
| 29 | Swarm Design of Series PID Cascade Controllers. , 2018, , . | | 2 |
| 30 | Optimizing Disturbance Rejection by Using Model-Based Compensator with User-Defined High-Frequency Gains. , 2018, , . | | 1 |
| 31 | PIDm Control for IPDT Plants. Part 2: Setpoint Response. , 2018, , . | | 4 |
| 32 | PIDmnControl for IPDT Plants. Part 1: Disturbance Response. , 2018, , . | | 5 |
| 33 | PID controller tuning for integrating processes. IFAC-PapersOnLine, 2018, 51, 586-591. | 0.5 | 7 |
| 34 | Maximizing the Electrical Efficiency of a Solid Oxide Fuel Cell System. , 2018, , . | | 0 |
| 35 | Recombination of oxygen atoms along a glass tube loaded with a copper sample. Vacuum, 2017, 138, 224-229. | 1.6 | 7 |
| 36 | Improving Operation of a 2.5kW SOFC Power System with Supervisory Control. ECS Transactions, 2017, 78, 265-274. | 0.3 | 1 |

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| 37 | Comparing filtered PID and smith predictor control of a thermal plant. , 2017, , . | | 11 |
| 38 | Cost optimisation of supermarket refrigeration system with hybrid model. Applied Thermal Engineering, 2016, 103, 56-66. | 3.0 | 16 |
| 39 | A Novel Fast-Filtering Method for Rotational Speed of the BLDC Motor Drive Applied to Valve Actuator. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1479-1486. | 3.7 | 9 |
| 40 | Dual Mode Feedforward-Feedback Control System. Lecture Notes in Electrical Engineering, 2015, , 241-250. | 0.3 | 2 |
| 41 | Teaching particle swarm optimization through an openâ€loop system identification project. Computer Applications in Engineering Education, 2014, 22, 227-237. | 2.2 | 10 |
| 42 | A PLC-Based System for Advanced Control. Advances in Industrial Control, 2013, , 327-361. | 0.4 | 0 |
| 43 | Rapid Prototyping Environment for Control Systems Implementation. Advances in Industrial Control, 2013, , 289-326. | 0.4 | 1 |
| 44 | Temperature Control in a Plastic Extruder Control System. Advances in Industrial Control, 2013, , 157-183. | 0.4 | 2 |
| 45 | Anti-Sway System for Ship-to-Shore Cranes. Strojniski Vestnik/Journal of Mechanical Engineering, 2012, 58, 338-344. | 0.6 | 8 |
| 46 | Automatic detection of the truck position using stereoscopy. , 2012, , . | | 2 |
| 47 | Underdamped Second-Order Systems Overshoot Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 518-523. | 0.4 | 9 |
| 48 | Improving disturbance rejection of PID controllers by means of the magnitude optimum method. ISA Transactions, 2010, 49, 47-56. | 3.1 | 50 |
| 49 | Multi-Objective Particle Swarm Optimization Design of PID Controllers. Lecture Notes in Computer Science, 2009, , 1222-1230. | 1.0 | 8 |
| 50 | Comparative study of decay ratios of disturbance-rejection magnitude optimum method for PI controllers. ISA Transactions, 2008, 47, 94-100. | 3.1 | 3 |
| 51 | Permanent synchronization of camcorders via LANC protocol. , 2006, 6055, 165. | | 0 |
| 52 | Advanced control algorithms embedded in a programmable logic controller. Control Engineering Practice, 2006, 14, 935-948. | 3.2 | 13 |
| 53 | Improving disturbance rejection of PI controllers by means of the magnitude optimum method. ISA Transactions, 2004, 43, 73-84. | 3.1 | 19 |
| 54 | Improving Tracking Performance on Disturbance-Rejection Controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 41-46. | 0.4 | 1 |

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| 55 | Fuzzy gain-scheduling control of a gas-liquid separation plant implemented on a PLC. International Journal of Control, 2002, 75, 1082-1091. | 1.2 | 16 |
| 56 | A magnitude optimum multiple integration tuning method for filtered PID controller. Automatica, 2001, 37, 1473-1479. | 3.0 | 71 |
| 57 | A new modified Smith predictor: the concept, design and tuning. ISA Transactions, 2001, 40, 111-121. | 3.1 | 42 |
| 58 | Improving Disturbance Rejection Properties of the MMO Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 83-87. | 0.4 | 0 |
| 59 | Magnitude Optimum Tuning Using Non-Parametric Data in the Frequency Domain. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 385-390. | 0.4 | 1 |
| 60 | A new PID controller tuning method based on multiple integrations. Control Engineering Practice, 1999, 7, 623-633. | 3.2 | 57 |
| 61 | A multiple integration tuning method for filtered PID controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 4446-4451. | 0.4 | 1 |
| 62 | Anti-Windup Designs for Multivariable Controllers. Automatica, 1998, 34, 1559-1565. | 3.0 | 70 |
| 63 | A New Simple Auto-Tuning Method for PID Controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 463-468. | 0.4 | 6 |
| 64 | A Review of Anti-Windup, Bumpless and Conditioned Transfer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 1524-1529. | 0.4 | 8 |
| 65 | Improving Disturbance-Rejection by Using Disturbance Estimator. , 0, , . | | 0 |