## Maarten Steinbuch

List of Publications by Year in descending order

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341 papers

7,730 citations

71102 41 h-index 74163 75 g-index

343 all docs 343 docs citations

times ranked

343

4870 citing authors

| #  | Article  | IF           | CITATIONS |
|----|--|--------------|-----------|
| 1  | String-Stable CACC Design and Experimental Validation: A Frequency-Domain Approach. IEEE Transactions on Vehicular Technology, 2010, 59, 4268-4279.                          | 6.3          | 688       |
| 2  | Energy Management Strategies for Vehicular Electric Power Systems. IEEE Transactions on Vehicular Technology, 2005, 54, 771-782.   | 6.3          | 360       |
| 3  | Plasma needle for <b><i>iin vivo</i></b> medical treatment: recent developments and perspectives. Plasma Sources Science and Technology, 2006, 15, S169-S180.                | 3.1          | 283       |
| 4  | Repetitive control for systems with uncertain period-time. Automatica, 2002, 38, 2103-2109.  | 5.0          | 267       |
| 5  | Trajectory planning and feedforward design for electromechanical motion systems. Control Engineering Practice, 2005, 13, 145-157.  | <b>5.</b> 5  | 252       |
| 6  | Rule-based energy management strategies for hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2007, $1,71$ .   | 0.3          | 189       |
| 7  | Design of noise and period-time robust high-order repetitive control, with application to optical storage. Automatica, 2007, 43, 2086-2095.                                  | 5.0          | 155       |
| 8  | Review of Optimization Strategies for System-Level Design in Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2016, , 1-1.                               | 6.3          | 143       |
| 9  | Connecting System Identification and Robust Control for Next-Generation Motion Control of a Wafer Stage. IEEE Transactions on Control Systems Technology, 2014, 22, 102-118. | <b>5.</b> 2  | 123       |
| 10 | Advanced Motion Control: An Industrial Perspective. European Journal of Control, 1998, 4, 278-293.   | 2.6          | 109       |
| 11 | Frequency domain identification of dynamic friction model parameters. IEEE Transactions on Control Systems Technology, 2002, 10, 191-196.                                    | <b>5.</b> 2  | 109       |
| 12 | Experimental demonstration of reset control design. Control Engineering Practice, 2000, 8, 113-120.  | 5 <b>.</b> 5 | 104       |
| 13 | Optimal Control of the Gearshift Command for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2012, 61, 3531-3543.                                       | 6.3          | 104       |
| 14 | Design and implementation of parameterized adaptive cruise control: An explicit model predictive control approach. Control Engineering Practice, 2010, 18, 882-892.          | 5.5          | 100       |
| 15 | Performance analysis of reset control systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1213-1233.   | 3.7          | 98        |
| 16 | MIMO feed-forward design in wafer scanners using a gradient approximation-based algorithm. Control Engineering Practice, 2010, 18, 495-506.                                  | 5 <b>.</b> 5 | 92        |
| 17 | Velocity and acceleration estimation for optical incremental encoders. Mechatronics, 2010, 20, 20-26.  | 3.3          | 84        |
| 18 | Friction induced hunting limit cycles: A comparison between the LuGre and switch friction model. Automatica, 2003, 39, 2131-2137.  | 5.0          | 83        |

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| 19 | Modeling and Identification for High-Performance Robot Control: An RRR-Robotic Arm Case Study. IEEE Transactions on Control Systems Technology, 2004, 12, 904-919.                        | 5.2 | 83        |
| 20 | Cooperative adaptive cruise control, design and experiments. , 2010, , .  |     | 83        |
| 21 | Higher-order sinusoidal input describing functions for the analysis of non-linear systems with harmonic responses. Mechanical Systems and Signal Processing, 2006, 20, 1883-1904.         | 8.0 | 79        |
| 22 | Using a Walking Piezo Actuator to Drive and Control a High-Precision Stage. IEEE/ASME Transactions on Mechatronics, 2009, 14, 21-31.  | 5.8 | 79        |
| 23 | Iterative motion feedforward tuning: A data-driven approach based on instrumental variable identification. Control Engineering Practice, 2015, 37, 11-19.                                 | 5.5 | 79        |
| 24 | Adaptive Iterative Learning Control for High Precision Motion Systems. IEEE Transactions on Control Systems Technology, 2008, 16, 1075-1082.  | 5.2 | 72        |
| 25 | The NANOMEFOS non-contact measurement machine for freeform optics. Precision Engineering, 2011, 35, 607-624.  | 3.4 | 70        |
| 26 | Solution for state constrained optimal control problems applied to power split control for hybrid vehicles. Automatica, 2014, 50, 187-192.  | 5.0 | 68        |
| 27 | Internal-model-based design of repetitive and iterative learning controllers for linear multivariable systems. International Journal of Control, 2000, 73, 914-929.                       | 1.9 | 66        |
| 28 | Optimal higher-order encoder time-stamping. Mechatronics, 2013, 23, 481-490.  | 3.3 | 65        |
| 29 | Uncertainty modelling and structured singular-value computation applied to an electromechanical system. IEE Proceedings D: Control Theory and Applications, 1992, 139, 301.               | 0.4 | 62        |
| 30 | Using iterative learning control with basis functions to compensate medium deformation in a wide-format inkjet printer. Mechatronics, 2014, 24, 944-953.                                  | 3.3 | 59        |
| 31 | Fast and smooth clutch engagement control for dual-clutch transmissions. Control Engineering Practice, 2014, 22, 57-68.   | 5.5 | 59        |
| 32 | Optimal gear shift strategies for fuel economy and driveability. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2013, 227, 1398-1413. | 1.9 | 58        |
| 33 | Modeling and Control of a Parallel Waste Heat Recovery System for Euro-VI Heavy-Duty Diesel Engines.<br>Energies, 2014, 7, 6571-6592.   | 3.1 | 58        |
| 34 | Modeling and Waveform Optimization of a Nano-motion Piezo Stage. IEEE/ASME Transactions on Mechatronics, 2011, 16, 615-626.   | 5.8 | 54        |
| 35 | Optimal Control of a Mechanical Hybrid Powertrain. IEEE Transactions on Vehicular Technology, 2012, 61, 485-497.  | 6.3 | 51        |
| 36 | Velocity trajectory optimization in Hybrid Electric trucks. , 2010, , .   |     | 50        |

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| 37 | Identification, control and hysteresis compensation of a 3 DOF metrological AFM. Asian Journal of Control, 2009, 11, 130-143.                                   | 3.0  | 49        |
| 38 | Two-phase plate-fin heat exchanger modeling for waste heat recovery systems in diesel engines. Applied Energy, 2014, 133, 183-196.                              | 10.1 | 49        |
| 39 | Direct data-driven recursive controller unfalsification with analytic update. Automatica, 2007, 43, 2034-2046.  | 5.0  | 45        |
| 40 | Frequency domain based nonlinear feed forward control design for friction compensation. Mechanical Systems and Signal Processing, 2012, 27, 551-562.            | 8.0  | 44        |
| 41 | Semantic world modeling using probabilistic multiple hypothesis anchoring. Robotics and Autonomous Systems, 2013, 61, 95-105.                                   | 5.1  | 44        |
| 42 | Learning intentions for improved human motion prediction. Robotics and Autonomous Systems, 2014, 62, 591-602.   | 5.1  | 44        |
| 43 | Design, implementation, and experimental validation of optimal power split control for hybrid electric trucks. Control Engineering Practice, 2012, 20, 547-558. | 5.5  | 43        |
| 44 | Adaptive repetitive control of a compact disc mechanism. , 0, , .   |      | 42        |
| 45 | Model-based feedforward for motion systems. , 0, , .  |      | 42        |
| 46 | Performance optimisation of the push-belt CVT by variator slip control. International Journal of Vehicle Design, 2005, 39, 232.                                 | 0.3  | 41        |
| 47 | Data-based optimal control. , 0, , .  |      | 41        |
| 48 | Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. Lecture Notes in Computer Science, 2009, , 150-164.                   | 1.3  | 41        |
| 49 | Design of a long stroke translation stage for AFM. International Journal of Machine Tools and Manufacture, 2010, 50, 183-190.                                   | 13.4 | 40        |
| 50 | Real-time control of tearing modes using a line-of-sight electron cyclotron emission diagnostic. Plasma Physics and Controlled Fusion, 2010, 52, 104006.        | 2.1  | 40        |
| 51 | Adaptive control of the radial servo system of a compact disc player. Automatica, 1992, 28, 455-462.  | 5.0  | 39        |
| 52 | Optimal Energy Management in Hybrid Electric Trucks Using Route Information. Oil and Gas Science and Technology, 2010, 65, 103-113.                             | 1.4  | 39        |
| 53 | Learning-based identification and iterative learning control of direct-drive robots. IEEE Transactions on Control Systems Technology, 2005, 13, 537-549.        | 5.2  | 38        |
| 54 | Fast and Smooth Clutch Engagement Control for a Mechanical Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2014, 22, 1241-1254.             | 5.2  | 38        |

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| 56 | Simulation and control of an automotive dry clutch. , 2004, , .   |     | 35        |
| 57 | Control of a hydraulically actuated continuously variable transmission. Vehicle System Dynamics, 2006, 44, 387-406.   | 3.7 | 35        |
| 58 | Explicit MPC design and performance evaluation of an ACC Stop-& amp; #x00026; -Go., 2008, , .   |     | 35        |
| 59 | Robust control of a compact disc player. , 0, , .   |     | 34        |
| 60 | Optical boundary reconstruction of tokamak plasmas for feedback control of plasma position and shape. Review of Scientific Instruments, 2010, 81, 113504.       | 1.3 | 34        |
| 61 | Exploiting additional actuators and sensors for nano-positioning robust motion control. Mechatronics, 2014, 24, 619-631.  | 3.3 | 34        |
| 62 | Jerk derivative feedforward control for motion systems. , 2004, , .   |     | 32        |
| 63 | Stability and performance of a variable gain controller with application to a dvd storage drive. Automatica, 2004, 40, 591-602.                                 | 5.0 | 32        |
| 64 | Spectral analysis of block structured nonlinear systems and higher order sinusoidal input describing functions. Automatica, 2011, 47, 2684-2688.                | 5.0 | 30        |
| 65 | Optimally conditioned instrumental variable approach for frequency-domain system identification. Automatica, 2014, 50, 2281-2293.                               | 5.0 | 30        |
| 66 | Review of Optimal Design Strategies for Hybrid Electric Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 57-64. | 0.4 | 29        |
| 67 | Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. Systems and Control Letters, 2008, 57, 759-762.                              | 2.3 | 28        |
| 68 | Modeling of a walking piezo actuator. Sensors and Actuators A: Physical, 2010, 162, 51-60.  | 4.1 | 28        |
| 69 | Delay-varying repetitive control with application to a walking piezo actuator. Automatica, 2011, 47, 1737-1743.   | 5.0 | 28        |
| 70 | Robust control of a clutch system to prevent judder-induced driveline oscillations. Vehicle System Dynamics, 2010, 48, 1379-1394.                               | 3.7 | 27        |
| 71 | Comparison of Bi-Level Optimization Frameworks for Sizing and Control of a Hybrid Electric Vehicle. , 2014, , .   |     | 27        |
| 72 | Input design for optimal discrete time point-to-point motion of an industrial XY-positioning table. , 0, , .  |     | 26        |

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| 73 | Design of a minimally invasive surgical teleoperated master-slave system with haptic feedback. , 2009, , .   |              | 26        |
| 74 | Model-based spatial feedforward for over-actuated motion systems. Mechatronics, 2014, 24, 307-317.   | 3.3          | 26        |
| 75 | Iterative model and controller reduction using closed-loop balancing, with application to a compact disc mechanism. International Journal of Robust and Nonlinear Control, 1999, 9, 123-142.                                 | 3.7          | 25        |
| 76 | Mathematical model of the 5-DOF sled dynamics of an electrodynamic maglev system with a passive sled. IEEE Transactions on Magnetics, 2005, 41, 460-465.   | 2.1          | 25        |
| 77 | Gear shift map design methodology for automotive transmissions. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 50-72.   | 1.9          | 25        |
| 78 | $\hat{1}$ /4-synthesis for a compact disc player. International Journal of Robust and Nonlinear Control, 1998, 8, 169-189.   | 3.7          | 24        |
| 79 | Iterative Learning Control of Industrial Motion Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 899-904.   | 0.4          | 24        |
| 80 | Predictive gear shift control for a parallel Hybrid Electric Vehicle. , 2011, , .  |              | 24        |
| 81 | A comparative overview of frequency domain methods for nonlinear systems. Mechatronics, 2017, 42, 11-24.   | 3.3          | 24        |
| 82 | RULE-BASED ENERGY MANAGEMENT STRATEGIES FOR HYBRID VEHICLE DRIVETRAINS: A FUNDAMENTAL APPROACH IN REDUCING COMPUTATION TIME. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 740-745. | 0.4          | 23        |
| 83 | Rule-Based Equivalent Fuel Consumption Minimization Strategies for Hybrid Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5652-5657.  | 0.4          | 23        |
| 84 | An Enhanced CMM Model for the Accurate Prediction of Steady-State Performance of CVT Chain Drives. Journal of Mechanical Design, Transactions of the ASMÉ, 2010, 132, .  | 2.9          | 23        |
| 85 | Topology and Flywheel Size Optimization for Mechanical Hybrid Powertrains. IEEE Transactions on Vehicular Technology, 2014, 63, 4192-4205.   | 6.3          | 23        |
| 86 | Implementation of Dynamic Programming for Optimal Control Problems With Continuous States. IEEE Transactions on Control Systems Technology, 2015, 23, 1172-1179.   | 5.2          | 23        |
| 87 | Norm optimal Cross-Coupled Iterative Learning Control. , 2008, , .   |              | 22        |
| 88 | Improvement of fuel economy in Power-Shift Automated Manual Transmission through shift strategy optimization - an experimental study. , 2010, , .  |              | 22        |
| 89 | Robust control of piecewise linear systems: A case study in sheet flow control. Control Engineering Practice, 2008, 16, 991-1003.  | 5.5          | 21        |
| 90 | Real-time optical plasma boundary reconstruction for plasma position control at the TCV Tokamak. Nuclear Fusion, 2014, 54, 073018.   | 3 <b>.</b> 5 | 21        |

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| 91  | Modeling the electromechanical interactions in a null-flux electrodynamic maglev system. IEEE Transactions on Magnetics, 2005, 41, 466-470.                            | 2.1         | 19        |
| 92  | Measuring the higher order sinusoidal input describing functions of a non-linear plant operating in feedback. Control Engineering Practice, 2008, 16, 101-113.         | <b>5.</b> 5 | 19        |
| 93  | A novel ball handling mechanism for the RoboCup middle size league. Mechatronics, 2011, 21, 469-478.   | 3.3         | 19        |
| 94  | Integrating experimentation into control courses. IEEE Control Systems, 2005, 25, 40-44.   | 0.8         | 18        |
| 95  | Error modeling and improved position estimation for optical incremental encoders by means of time stamping. Proceedings of the American Control Conference, 2007, , .  | 0.0         | 18        |
| 96  | Improving Continuously Variable Transmission Efficiency With Extremum Seeking Control. IEEE Transactions on Control Systems Technology, 2012, 20, 1376-1383.           | 5.2         | 18        |
| 97  | Analysis of human-in-the-loop tele-operated maintenance inspection tasks using VR. Fusion Engineering and Design, 2013, 88, 2164-2167.                                 | 1.9         | 18        |
| 98  | Deformable mirrors with thermo-mechanical actuators for extreme ultraviolet lithography: Design, realization and validation. Precision Engineering, 2013, 37, 353-363. | 3.4         | 18        |
| 99  | Gain Scheduling Control of a Walking Piezo Actuator. IEEE/ASME Transactions on Mechatronics, 2014, 19, 954-962.  | 5.8         | 18        |
| 100 | Time-frequency analysis of a motion system with learning control. , 0, , .   |             | 17        |
| 101 | Iterative learning control with wavelet filtering. International Journal of Robust and Nonlinear<br>Control, 2008, 18, 1052-1071.                                      | 3.7         | 17        |
| 102 | Accuracy aspects in motion feedforward tuning. , 2014, , .   |             | 17        |
| 103 | Analysis of Slip in a Continuously Variable Transmission. , 2003, , 995.   |             | 16        |
| 104 | A closed-loop control system for stabilization of MHD events on TEXTOR. Fusion Engineering and Design, 2009, 84, 928-934.  | 1.9         | 16        |
| 105 | ENERGY MANAGEMENT IN HYBRID ELECTRIC VEHICLES: BENEFIT OF PREDICTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 264-269.  | 0.4         | 16        |
| 106 | Systematic design of a sawtooth period feedback controller using a Kadomtsev–Porcelli sawtooth model. Nuclear Fusion, 2011, 51, 073024.                                | 3.5         | 16        |
| 107 | Optimal Trajectories for Vehicles with Energy Recovery Options*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3831-3836.     | 0.4         | 16        |
| 108 | Optimal Control of a Mechanical Hybrid Powertrain With Cold-Start Conditions. IEEE Transactions on Vehicular Technology, 2014, 63, 1555-1566.                          | 6.3         | 16        |

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| 109 | Explicit MPC design and performance-based tuning of an Adaptive Cruise Control Stop-&-Go., 2008, , .   |              | 15        |
| 110 | Control-oriented modelling of occupants in frontal impacts. International Journal of Crashworthiness, 2009, 14, 323-337.   | 1.9          | 15        |
| 111 | Extending Energy Management in Hybrid Electric Vehicles with explicit control of gear shifting and start-stop. , 2012, , .   |              | 15        |
| 112 | Experimental Validation of a Dynamic Waste Heat Recovery System Model for Control Purposes. , 2013, , .  |              | 15        |
| 113 | Closed-loop scaling in fixed-point digital control. IEEE Transactions on Control Systems Technology, 1994, 2, 312-317.   | 5.2          | 14        |
| 114 | Nonlinear control of optical storage drives with improved shock performance. Control Engineering Practice, 2005, 13, 1295-1305.  | 5 <b>.</b> 5 | 14        |
| 115 | Hybrid component specification optimisation for a medium-duty hybrid electric truck. International Journal of Heavy Vehicle Systems, 2008, 15, 356.  | 0.2          | 14        |
| 116 | Frequency domainâ€based nonlinearity detection and compensation in Lur'e systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1168-1182.                              | 3.7          | 14        |
| 117 | Model predictive control of a waste heat recovery system for automotive diesel engines. , 2014, , .  |              | 14        |
| 118 | Directional notch filters for motion control of flexible structures. Mechatronics, 2014, 24, 632-639.  | 3.3          | 14        |
| 119 | On QFT tuning of multivariable μ controllers. Automatica, 2000, 36, 1701-1708.   | 5.0          | 13        |
| 120 | Development of a smart positioning sensor for the plasma needle. Plasma Sources Science and Technology, 2006, 15, 582-589.   | 3.1          | 13        |
| 121 | High Performance and Stable Teleoperation under Bounded Operator and Environment Dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 373-379. | 0.4          | 13        |
| 122 | Cloud based centralized task control for human domain multi-robot operations. Intelligent Service Robotics, 2016, 9, 63-77.  | 2.6          | 13        |
| 123 | Modelling and LPV control of an electro-hydraulic servo system. , 2006, , .  |              | 13        |
| 124 | An Adaptive Sub-Optimal Energy Management Strategy for Hybrid Drive-Trains. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 102-107.                | 0.4          | 12        |
| 125 | Iterative learning control with basis functions for media positioning in scanning inkjet printers. , 2012, , .   |              | 12        |
| 126 | A dynamic state observer for real-time reconstruction of the tokamak plasma profile state and disturbances. , $2014,  ,  .$  |              | 12        |

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| 127 | Iterative Learning Control and feedforward for LPV systems: Applied to a position-dependent motion system. , $2017, \dots$  |     | 12        |
| 128 | Advanced Motion Control Design. The Electrical Engineering Handbook, 2010, , 27-1-27-25.  | 0.2 | 12        |
| 129 | On noise- and period-time sensitivity in high order repetitive control. , 2004, , .   |     | 11        |
| 130 | Experimental characterization of the stick/sliding transition in a precision mechanical system using the third order sinusoidal input describing function. Mechatronics, 2008, 18, 100-110. | 3.3 | 11        |
| 131 | Validation of a new adaptive deformable mirror concept. , 2008, , .   |     | 11        |
| 132 | Stability parameter identification for a centrifugal compression system. , 2004, , .  |     | 10        |
| 133 | Feedback control of occupant motion during a crash. International Journal of Crashworthiness, 2006, 11, 81-96.  | 1.9 | 10        |
| 134 | Modelling and LPV control of an electro-hydraulic servo system. , 2006, , .   |     | 10        |
| 135 | Second-order odd-harmonic repetitive control and its application to active filter control. , 2010, , .  |     | 10        |
| 136 | A Model Predictive Control Approach to Design a Parameterized Adaptive Cruise Control. Lecture Notes in Control and Information Sciences, 2010, , 273-284.                                  | 1.0 | 10        |
| 137 | Directional Repetitive Control of a Metrological AFM. IEEE Transactions on Control Systems Technology, 2011, 19, 1622-1629.   | 5.2 | 10        |
| 138 | Numerical demonstration of injection locking of the sawtooth period by means of modulated EC current drive. Nuclear Fusion, 2011, 51, 103043.   | 3.5 | 10        |
| 139 | Sawtooth period control strategies and designs for improved performance. Nuclear Fusion, 2012, 52, 074005.  | 3.5 | 10        |
| 140 | Exploiting additional actuators and sensors for nano-positioning robust motion control. , 2014, , .   |     | 10        |
| 141 | Robust High Performance Bilateral Teleoperation Under Bounded Time-Varying Dynamics. IEEE Transactions on Control Systems Technology, 2015, 23, 206-218.                                    | 5.2 | 10        |
| 142 | Modeling and identification of an RRR-robot. , 0, , .   |     | 9         |
| 143 | CVT ratio control strategy optimization. , 0, , .   |     | 9         |
| 144 | Optimization aided loop shaping for motion systems. , 2006, , .   |     | 9         |

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|-----|---|--------------|-----------|
| 145 | Distributed control in adaptive optics: deformable mirror and turbulence modeling. , 2006, , .  |              | 9         |
| 146 | Data-Driven Controller Unfalsification With Analytic Update Applied to a Motion System. IEEE Transactions on Control Systems Technology, 2008, 16, 1207-1217.   | 5.2          | 9         |
| 147 | Model-free norm-based fixed structure controller synthesis. , 2009, , .   |              | 9         |
| 148 | Nonlinearities in Industrial motion stages - detection and classification. , 2010, , .  |              | 9         |
| 149 | Control Relevant Blind Identification of Disturbances With Application to a Multivariable Active<br>Vibration Isolation Platform. IEEE Transactions on Control Systems Technology, 2010, 18, 393-404. | 5 <b>.</b> 2 | 9         |
| 150 | Real-time wavelet detection of crashes in limit cycles of non-stationary fusion plasmas. Fusion Engineering and Design, 2011, 86, 2908-2919.  | 1.9          | 9         |
| 151 | Heat exchanger modeling and identification for control of Waste Heat Recovery systems in diesel engines. , 2013, , .  |              | 9         |
| 152 | Closed-form kinematic and dynamic models of an industrial-like RRR robot. , 0, , .  |              | 8         |
| 153 | Introduction to an integrated design for motion systems using over-actuation. , 2003, , .   |              | 8         |
| 154 | Anti-shock controller design for optical drives. Control Engineering Practice, 2004, 12, 811-817.   | 5.5          | 8         |
| 155 | NONLINEAR CONTROL OF A LINEAR MOTION SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 446-451.  | 0.4          | 8         |
| 156 | Disc defect classification for optical disc drives. IEEE Transactions on Consumer Electronics, 2005, 51, 856-863.   | 3.6          | 8         |
| 157 | Optimal design of energy storage systems for hybrid vehicle drivetrains. , 0, , .   |              | 8         |
| 158 | Implementation of an Optimal Control Energy Management Strategy in a Hybrid Truck. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 61-66.                      | 0.4          | 8         |
| 159 | Non-iterative data-driven controller tuning with guaranteed stability: Application to direct-drive pick-and-place robot. , $2010$ , , .   |              | 8         |
| 160 | High Speed Visual Motion Control Applied to Products With Repetitive Structures. IEEE Transactions on Control Systems Technology, 2012, 20, 1450-1460.  | 5.2          | 8         |
| 161 | On inferential Iterative Learning Control: With example to a printing system. , 2014, , .   |              | 8         |
| 162 | Combining extremum seeking control and tracking control for high-performance CVT operation. Control Engineering Practice, 2014, 29, 86-102.   | 5.5          | 8         |

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| 163 | A representation method based on the probability of collision for safe robot navigation in domestic environments. , $2014$ , , .                          |     | 8         |
| 164 | From Optimal to Real-Time Control of a Mechanical Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2015, 23, 670-678.                  | 5.2 | 8         |
| 165 | Motion Control, Mechatronics Design, and Moore's Law. IEEJ Journal of Industry Applications, 2022, 11, 245-255.   | 1.1 | 8         |
| 166 | Dynamic modeling of a generator/rectifier system. IEEE Transactions on Power Electronics, 1992, 7, 212-223.   | 7.9 | 7         |
| 167 | Suppressing non-periodically repeating disturbances in mechanical servo systems. , 0, , .   |     | 7         |
| 168 | Experimentally supported control design for a direct drive robot. , 0, , .  |     | 7         |
| 169 | Haptic feedback designs in teleoperation systems for minimal invasive surgery. , 0, , .   |     | 7         |
| 170 | Modeling and compensation of asymmetric hysteresis in a piezo actuated metrological AFM., 2009,,.   |     | 7         |
| 171 | Deformable mirrors: design fundamentals for force actuation of continuous facesheets. , 2009, , .   |     | 7         |
| 172 | Reference governors for controlled belt restraint systems. Vehicle System Dynamics, 2010, 48, 831-850.  | 3.7 | 7         |
| 173 | Uniquely connecting frequency domain representations of given order polynomial<br>Wiener–Hammerstein systems. Automatica, 2012, 48, 2381-2384.            | 5.0 | 7         |
| 174 | Design and control of high tech systems. , 2013, , .  |     | 7         |
| 175 | Nanometre-accurate form measurement machine for E-ELT M1 segments. Precision Engineering, 2015, 40, 14-25.  | 3.4 | 7         |
| 176 | Linear viscoelastic fluid characterization of ultra-high-viscosity fluids for high-frequency damper design. Rheologica Acta, 2015, 54, 667-677.           | 2.4 | 7         |
| 177 | Broadband damping of high-precision motion stages. Mechatronics, 2017, 41, 1-16.  | 3.3 | 7         |
| 178 | Active Object Search Exploiting Probabilistic Object–Object Relations. Lecture Notes in Computer Science, 2014, , 13-24.                                  | 1.3 | 7         |
| 179 | Iterative learning control for variable setpoints, applied to a motion system., 2003,,.   |     | 6         |
| 180 | Comparison of Standard and Lifted ILC on a Motion System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 205-210. | 0.4 | 6         |

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| 181 | The influence of disturbances in iterative learning control. , 0, , .   |     | 6         |
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| 183 | Data-driven multivariable controller design using Ellipsoidal Unfalsified Control. Proceedings of the American Control Conference, 2007, , .  | 0.0 | 6         |
| 184 | H <inf>2</inf> performance analysis of reset control systems. , 2007, , .   |     | 6         |
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