Marcel Heertjes

List of Publications by Year in descending order

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1

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | On characterization of a generic lithography machine in a multi-directional space. Mechanism and Machine Theory, 2022, 170, 104638. | 2.7 | 5 |
| 2 | Stability and performance analysis of hybrid integrator–gain systems: A linear matrix inequality approach. Nonlinear Analysis: Hybrid Systems, 2022, 45, 101192. | 2.1 | 2 |
| 3 | Overcoming Performance Limitations of Linear Control with Hybrid Integrator-Gain Systems. IFAC-PapersOnLine, 2021, 54, 289-294. | 0.5 | 6 |
| 4 | Experimental modeling of hysteresis in stage systems: A Maxwell–Iwan approach. Mechatronics, 2021, 75, 102525. | 2.0 | 3 |
| 5 | On the Equivalence of Extended and Oblique Projected Dynamics with Applications to Hybrid Integrator-Gain Systems. , 2021, , . | | 3 |
| 6 | Projection-based integrators for improved motion control: Formalization, well-posedness and stability of hybrid integrator-gain systems. Automatica, 2021, 133, 109830. | 3.0 | 13 |
| 7 | Experimental Demonstration of a Nonlinear PID-Based Control Design Using Multiple Hybrid Integrator-Gain Elements. , 2020, , . | | 2 |
| 8 | Industry engagement with control research: Perspective and messages. Annual Reviews in Control, 2020, 49, 1-14. | 4.4 | 47 |
| 9 | Improving Wafer Stage Performance With Multiple Hybrid Integrator-Gain Systems. IFAC-PapersOnLine, 2020, 53, 8321-8326. | 0.5 | 3 |
| 10 | Robust control and dataâ€driven tuning of a hybrid integratorâ€gain system with applications to wafer scanners. International Journal of Adaptive Control and Signal Processing, 2019, 33, 371-387. | 2.3 | 10 |
| 11 | Robust Stability and Nonlinear Loop-Shaping Design for Hybrid Integrator-Gain-Based Control Systems. , 2019, , . | | 8 |
| 12 | Extended Projected Dynamical Systems with Applications to Hybrid Integrator-Gain Systems. , 2019, , . | | 12 |
| 13 | Hybrid Integrator-Gain System for Active Vibration Isolation with Improved Transient Response. IFAC-PapersOnLine, 2019, 52, 454-459. | 0.5 | 10 |
| 14 | lterative Pole–Zero model updating: A combined sensitivity approach. Control Engineering Practice, 2018, 71, 164-174. | 3.2 | 5 |
| 15 | Self-tuning MIMO disturbance feedforward control for active hard-mounted vibration isolators. Control Engineering Practice, 2018, 72, 90-103. | 3.2 | 31 |
| 16 | Iterative pole-zero finite element model updating using generic parameters. Mechatronics, 2018, 55, 180-193. | 2.0 | 3 |
| 17 | A Hybrid Integrator-Gain Based Low-Pass Filter for Nonlinear Motion Control. , 2018, , . | | 17 |
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18 Resonant-Dynamics LTV Feedforward for Flexible Motion Systems. , 2018, , .

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|----|--|-----|-----------|
| 19 | Design and performance tradeoffs in MIMO disturbance feedforward control. , 2018, , . | | 2 |
| 20 | Frequency-domain tools for stability analysis of reset control systems. Automatica, 2017, 82, 101-108. | 3.0 | 50 |
| 21 | H â^ž feedback and feedforward controller design for active vibration isolators. IFAC-PapersOnLine, 2017, 50, 13384-13389. | 0.5 | 9 |
| 22 | Evaluating performance of multivariable vibration isolators: A frequency domain identification approach applied to an industrial AVIS. , 2017, , . | | 1 |
| 23 | Hybrid integrator design for enhanced tracking in motion control. , 2017, , . | | 24 |
| 24 | A compliance feedforward scheme for a class of LTV motion systems. , 2017, , . | | 2 |
| 25 | Data-driven tuning of a hybrid integrator-gain system. IFAC-PapersOnLine, 2017, 50, 10851-10856. | 0.5 | 3 |
| 26 | Continuous compliance compensation of position-dependent flexible structures. IFAC-PapersOnLine, 2016, 49, 76-81. | 0.5 | 9 |
| 27 | Second-order reset elements for stage control design. , 2016, , . | | 26 |
| 28 | Data-Based Motion Control of Wafer Scanners. IFAC-PapersOnLine, 2016, 49, 1-12. | 0.5 | 16 |
| 29 | Experimental Evaluation of Reset Control for Improved Stage Performance. IFAC-PapersOnLine, 2016, 49, 93-98. | 0.5 | 9 |
| 30 | Practical tuning guide to mixed feedback and feedforward control of soft-mounted vibration isolators. IFAC-PapersOnLine, 2016, 49, 163-169. | 0.5 | 8 |
| 31 | Scheduled controller design for systems with two switching sensor configurations: A frequency-domain approach**This work is supported by the Dutch Technology Foundation (STW) under project "HyperMotion: Hybrid Control for Performance Improvement of Linear Motion Systems― (no. 10953) IFAC-PapersOnLine. 2015. 48. 99-104. | 0.5 | 1 |
| 32 | Synthesis of Variable Gain Integral Controllers for Linear Motion Systems. IEEE Transactions on Control Systems Technology, 2015, 23, 139-149. | 3.2 | 31 |
| 33 | MIMO FIR feedforward design for zero error tracking control. , 2014, , . | | 10 |
| 34 | Design of a fractional-order integrator for high-precision stages. , 2014, , . | | 0 |
| 35 | Performance optimization of piecewise affine variable-gain controllers for linear motion systems. Mechatronics, 2014, 24, 648-660. | 2.0 | 14 |
| 36 | Directional notch filters for motion control of flexible structures. Mechatronics, 2014, 24, 632-639. | 2.0 | 14 |

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|----|--|-----|-----------|
| 37 | Self-tuning in integral sliding mode control with a Levenberg–Marquardt algorithm. Mechatronics, 2014, 24, 385-393. | 2.0 | 14 |
| 38 | Introduction to the special issue on â€~Performance of nonlinear control systems'. International Journal of Robust and Nonlinear Control, 2013, 23, 1063-1064. | 2.1 | 0 |
| 39 | Self-tuning in master–slave synchronization of high-precision stage systems. Control Engineering Practice, 2013, 21, 1706-1715. | 3.2 | 26 |
| 40 | Model-based piecewise affine variable-gain controller synthesis. , 2013, , . | | 3 |
| 41 | Minimizing cross-talk in high-precision motion systems using data-based dynamic decoupling. Control Engineering Practice, 2011, 19, 1423-1432. | 3.2 | 18 |
| 42 | Call for Papers: <i>International Journal of Robust and Nonlinear Control Performance of Nonlinear Control Systems</i> . International Journal of Robust and Nonlinear Control, 2011, 21, 1354-1354. | 2.1 | 0 |
| 43 | Switching control in blu-ray disk drives. Mechatronics, 2010, 20, 453-463. | 2.0 | 15 |
| 44 | MIMO feed-forward design in wafer scanners using a gradient approximation-based algorithm. Control Engineering Practice, 2010, 18, 495-506. | 3.2 | 92 |
| 45 | Improved noise sensitivity under high-gain feedback in nano-positioning motion systems. , 2009, , . | | 2 |
| 46 | Performance-Improved Design of N-PID Controlled Motion Systems With Applications to Wafer Stages. IEEE Transactions on Industrial Electronics, 2009, 56, 1347-1355. | 5.2 | 46 |
| 47 | Nonlinear Q-filter in the learning of nano-positioning motion systems. , 2009, , . | | 3 |
| 48 | Performance of convergence-based variable-gain control of optical storage drives. Automatica, 2008, 44, 15-27. | 3.0 | 43 |
| 49 | Circle criterion in linear control design. , 2008, , . | | 5 |
| 50 | Nonlinear iterative learning control with applications to lithographic machinery. Control Engineering Practice, 2007, 15, 1545-1555. | 3.2 | 65 |
| 51 | Nonlinear control of optical storage drives with improved shock performance. Control Engineering Practice, 2005, 13, 1295-1305. | 3.2 | 14 |
| 52 | Stability and performance of a variable gain controller with application to a dvd storage drive. Automatica, 2004, 40, 591-602. | 3.0 | 32 |
| 53 | Controlling the nonlinear dynamics of a beam system. Chaos, Solitons and Fractals, 2001, 12, 49-66. | 2.5 | 6 |
| 54 | PARTIAL FEEDBACK LINEARIZATION ON A HARMONICALLY EXCITED BEAM WITH ONE-SIDED SPRING. Journal of Sound and Vibration, 1999, 228, 939-959. | 2.1 | 2 |

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|----|---|-----|-----------|
| 55 | EXPERIMENTAL AND NUMERICAL ANALYSIS OF THE STEADY STATE BEHAVIOUR OF A BEAM SYSTEM WITH IMPACT. Journal of Sound and Vibration, 1998, 212, 321-336. | 2.1 | 23 |
| 56 | Stabilizing the 1-Periodic Response of a Beam with One-Sided Spring: Experiment Versus Simulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 547-552. | 0.4 | 1 |