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Research Papers

Two-Level Nonlinear Model Predictive Control for Lean NO_x Trap Regenerations

Ming-Feng Hsieh, Junmin Wang and Marcello Canova

J. Dyn. Sys., Meas., Control. 2010;132(4):041001-041001-13. doi:10.1115/1.4001710.

Enabling Automation of Friction Stir Welding: The Modulation of Weld Seam Input Energy by Traverse Speed Force Control

William R. Longhurst, Alvin M. Strauss and George E. Cook

J. Dyn. Sys., Meas., Control. 2010;132(4):041002-041002-11. doi:10.1115/1.4001795.

Optimal Sliding Mode Dual-Stage Actuator Control in Computer Disk Drives

Seung-Hi Lee

J. Dyn. Sys., Meas., Control. 2010;132(4):041003-041003-9. doi:10.1115/1.4001325.

Multi-Input Multi-Output (MIMO) Modeling and Control for Stamping

Yongseob Lim, Ravinder Venugopal and A. Galip Ulsoy

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UAS Mission Path Planning System (MPPS) Using Hybrid-Game Coupled to Multi-Objective Optimizer

DongSeop Lee, Jacques Periaux and Luis Felipe Gonzalez

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Dynamic Optimization of Reactionless Four-Bar Linkages

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H_∞ Closed-Loop Control for Uncertain Discrete Input-Shaped Systems

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Stochastic Recruitment Control of Large Ensemble Systems With Limited Feedback

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Adaptive Control of Mechanical Gas Face Seals With Rotor Runout and Static Stator Misalignment

Haojiong Zhang, Robert G. Landers and Brad A. Miller

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An Adjustable Model Reference Adaptive Control for a Flexible Launch Vehicle

A. M. Khoshnood, J. Roshanian, A. A. Jafari and A. Khaki-Sedigh

J. Dyn. Sys., Meas., Control. 2010;132(4):041010-041010-7. doi:10.1115/1.4001709.

Dahl Model-Based Hysteresis Compensation and Precise Positioning Control of an XY Parallel Micromanipulator With Piezoelectric Actuation

Qingsong Xu and Yangmin Li

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Enhanced Performance and Stability in Pneumatic Servosystems With Supplemental Mechanical Damping

Keith W. Wait and Michael Goldfarb

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H_∞ Control for Continuous-Time Switched Linear Systems

Grace S. Deaecto and José C. Geromel

J. Dyn. Sys., Meas., Control. 2010;132(4):041013-041013-7. doi:10.1115/1.4001711.

Technical Briefs

Robust Fault-Tolerant Control for a Class of Nonlinear Stochastic Systems With Variance Constraints

Lifeng Ma, Zidong Wang, Yuming Bo and Zhi Guo

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A Disturbance Attenuation Approach for a Class of Continuous Piecewise Affine Systems: Control Design and Experiments

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Uncertainty Propagation in Abstracted Systems via the Liouville Equation

Patricia Mellodge and Pushkin Kachroo

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Dynamic Modeling and Analysis of Shield TBM Cutterhead Driving System

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