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## Research Papers

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### Application of Combined Feedforward and Feedback Controller With Shaped Input to Benchmark Problem

Young Joo Shin and Peter H. Meckl

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021001-021001-8. doi:10.1115/1.4000651.

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### Parameter Reduction in Estimated Model Sets for Robust Control

Ryozo Nagamune and Jongeun Choi

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021002-021002-10. doi:10.1115/1.4000661.

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### Modeling, Analysis, and Optimal Design of the Automotive Transmission Ball Capsule System

Xingyong Song, Mohd Azrin Mohd Zulkefli, Zongxuan Sun and Hsu-Chiang Miao

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021003-021003-12. doi:10.1115/1.4000662.

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### Application of dc Servomotor on Airflow Measurement

Thananchai Leephakpreeda

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021004-021004-7. doi:10.1115/1.4000813.

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### Robust Control Synthesis Techniques for Multirate and Multisensing Track-Following Servo Systems in Hard Disk Drives

Ryozo Nagamune, Xinghui Huang and Roberto Horowitz

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021005-021005-10. doi:10.1115/1.4000835.

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### On the Transient of Pressure Waves in Ducts for Systems Operating in Industrial Automation

Arcangelo Messina and Giosué Rollo

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021006-021006-12. doi:10.1115/1.4000652.

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### A Dynamic Model of an Electropneumatic Valve Actuator for Internal Combustion Engines

Jia Ma, Guoming G. Zhu and Harold Schock

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021007-021007-10. doi:10.1115/1.4000816.

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### Stabilization of Unstable Fixed Points of Fractional-Order Systems by Fractional-Order Linear Controllers and Its Applications in Suppression of Chaotic

## Oscillations

Mohammad Saleh Tavazoei and Mohammad Haeri

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021008-021008-7. doi:10.1115/1.4000654.

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## Adaptive Neuro-Fuzzy Inference System in Fuzzy Measurement to Track Association

Abdolreza Dehghani Tafti and Nasser Sadati

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021009-021009-8. doi:10.1115/1.4000663.

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## Physics Based Control Oriented Model for HCCI Combustion Timing

Mahdi Shahbakhti and Charles Robert Koch

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021010-021010-12. doi:10.1115/1.4000036.

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## Design and Testing of a Nanometer Positioning System

Lu Lihua, Liang Yingchun, Guo Yongfeng and Shimokohbe Akira

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021011-021011-6. doi:10.1115/1.4000811.

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## A QFT Framework for Antiwindup Control Systems Design

J. C. Moreno, A. Baños and M. Berenguel

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021012-021012-15. doi:10.1115/1.4000812.

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## Modified Maximum Entropy Fuzzy Data Association Filter

Abdolreza Dehghani Tafti and Nasser Sadati

*J. Dyn. Sys., Meas., Control.* 2010;132(2):021013-021013-9. doi:10.1115/1.4000817.

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## Technical Briefs

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### Identification of a Variable Mass Underwater Vehicle Via Volterra Neural Network

T. Binazadeh, M. J. Yazdanpanah and M. H. Shafiei

*J. Dyn. Sys., Meas., Control.* 2010;132(2):024501-024501-7. doi:10.1115/1.4000814.

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### Differentially Flat Designs of Underactuated Mobile Manipulators

Ji-Chul Ryu, Vivek Sangwan and Sunil K. Agrawal

*J. Dyn. Sys., Meas., Control.* 2010;132(2):024502-024502-6. doi:10.1115/1.4000815.

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### Computationally Efficient Multisensor Fusion Estimation Algorithms

Seokyoung Lee and Vladimir Shin

*J. Dyn. Sys., Meas., Control.* 2010;132(2):024503-024503-4. doi:10.1115/1.4000659.

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### Online Identification and Stochastic Control for Autonomous Internal Combustion Engines

Andreas A. Malikopoulos, Panos Y. Papalambros and Dennis N. Assanis

*J. Dyn. Sys., Meas., Control.* 2010;132(2):024504-024504-6. doi:10.1115/1.4000819.

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### Minimizing Residual Vibration in Short-Maneuver Pulse-Width Control

Keith W. Buffinton, Katie L. Hoffman and Martin C. Berg

