

## JOURNAL PUBLICATIONS

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- [1] N. Anker and **H. J. Palanhandalam-Madapusi**, “Letter to Editors - Solving for Cantilever Equilibria as Initial Value Problems,” *Journal of Mechanics in Medicine and Biology*, Vol. 13, No. 1, 1320001-1 – 1320001-4, 2013.
- [2] A. Hinkle, S. Goyal and **H. J. Palanhandalam-Madapusi**, “Constitutive-Law Modeling of Microfilaments From Their Discrete-Structure Simulations—A Method Based on an Inverse Approach Applied to a Static Rod Model,” *Journal of Applied Mechanics (Transactions of the ASME)*, Volume 79, No. 5, 051005-1 – 051005-7, 2012.
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- [5] **V. Dhummi, D. W. Demetriou, H. J. Palanhandalam-Madapusi**, H. E. Khalifa, C. Isik, “Robust Occupancy-Based Distributed Demand Control Ventilation,” *International Journal of Ventilation*, Vol. 9, No. 4, pages 359-370, March 2011.
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- [11] **H. J. Palanhandalam-Madapusi**, T. H. Van Pelt, and D. S. Bernstein. “Matrix Pencils and Existence Conditions for Quadratic Programming with a Sign-Indefinite Quadratic Equality Constraint,” *Journal of Global Optimization*, Vol. 45, pp. 533-549, 2009.
- [12] B. O. S. Teixeira, J. Chandrasekhar, **H. J. Palanhandalam-Madapusi**, L. A. B. Torres, L. A. Aguirre, and D. S. Bernstein. “Gain-Constrained Kalman Filtering for Linear and Nonlinear Systems,” *IEEE Transactions on Signal Processing*, Vol. 56, No. 9, pages 4113- 4123, September 2008.
- [13] **H. J. Palanhandalam-Madapusi**, D. S. Bernstein, and A. J. Ridley. “Space Weather Forecasting: Identifying periodically switching block-structured models for predicting

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#### **INVITED PAPERS/ABSTRACTS IN PUBLISHED CONFERENCE PROCEEDINGS**

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- [1] **H. J. Palanhandalam-Madapusi**, S. L. Lacy, J. B. Hoagg, and D. S. Bernstein, “Subspace-Based Identification for Linear and Nonlinear Systems,” In *Proc. American Control Conf.*, Portland, OR, pp. 2320-2334, 2005.

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#### **PEER-REVIEWED PUBLICATIONS IN CONFERENCE PROCEEDING**

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- [2] **G. K. Singh, R. A. Chavan, V. V. Shah, A. Dahale, H. J. Palanhandalam-Madapusi** Backward-in-time Input Reconstruction, American. Control Conference, 2016 (accepted).
- [3] **V. V. Shah, S. Goyal, H. J. Palanhandalam-Madapusi**, A Perspective On The Use of Highfrequency Stimulation In Deep Brain Stimulation For Parkinson’s Disease, *Indian Control Conference*, Hyderabad, January 2016.
- [4] **V. V. Shah, S. Goyal, H. J. Palanhandalam-Madapusi**, A Biomechanical Approach to Diagnosis and Monitoring of Parkinson’s Disease, *Proceedings of the ASME 2015 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, Boston, MA, August 2015.
- [5] **R. A. Chavan, H. J. Palanhandalam-Madapusi**, S. Goyal, Estimating Constitutive Law Of A Filament From Its Deformed Shapes Using Input Reconstruction, *Proceedings of the ASME 2015 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, Boston, MA, August 2015.
- [6] **R. A. Chavan, A. Rajiv, H. J. Palanhandalam-Madapusi**, Command Following Using an Input Reconstruction Approach, American Control Conference, Chicago, IL, July 2015.
- [7] **V. V. Shah, S. Goyal, H. J. Palanhandalam-Madapusi**, Exploration of Diagnosis of Parkinson's Disease before Onset of Tremor, *Indian Control Conference*, Chennai, India, January 2015.
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- [9] **R. A. Chavan, K. Fitch, H. J. Palanhandalam-Madapusi**, Recursive Input Reconstruction with a Delay, *American Control Conference*, Portland, OR, July 2014.

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- [11] **A. Rajiv and H. J. Palanhandalam-Madapusi**, "An Inverse Model Approach For Estimating Constitutive Laws From Dynamic Planar Deformations of Bio-Filaments", *Asian Conference on Mechanics of Functional Materials and Structures*, pages 671-674, December 2012.
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- [14] V. Dhummi, **H. J. Palanhandalam-Madapusi**, H. E. Khalifa, "Feasibility Of Distributed Demand Control Ventilation In Cubicle Environments," *Indoor Air*, June 2011.
- [15] K. E. Fitch and H. J. Palanhandalam-Madapusi, "Unbiased Minimum-variance Filtering for Delayed Input Reconstruction," *Proc. American Control Conf.*, June 2011.
- [16] M. Fledderjohn, M. Holzel, **H. J. Palanhandalam-Madapusi**, R. Fuentes, Dennis S. Bernstein, "A Comparison of Least Squares Algorithms for Estimating Markov Parameters," *Proc. American Control Conf.*, pages 3735 – 3740, Baltimore, Maryland, June 2010.
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