

From: Griffith, Daniel [dgriffi@sandia.gov]
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To: ORG-01521; ORG-01523; ORG-01525; ORG-01526; Dowdican, Mark C; Kim, Theodore J; Webb, Curtis B; Caicedo, Rafael E; Jones, Julie M; Swanzy, Michael John; Lo, Chi; Robinett III, Rush D; Barney, Patrick S; Feddema, John T; Creel, Earl E; Schmitt, Dan J; Martin, Jeffrey W
Cc: John E. Hurtado
Subject: John Hurtado Seminar: Coordinate choices in dynamics and controls

Professor John Hurtado from Texas A&M University will present an overview of his recent research on **Wednesday afternoon. Come see an interesting discussion of "Coordinate Choices in Dynamics and Controls".**

Wednesday, July 26th
3:30 - 4:30 PM
Bldg 860, room 205B

Coordinate choices in dynamics and controls

Dr. John E. Hurtado

Department of Aerospace Engineering

Texas A&M University

College Station, TX

Abstract: It is widely known, although not perhaps appreciated, that some choices of position and velocity coordinates for mechanical systems are better than others: better, for example, with regard to numerical integration or control-law design. In this talk I will highlight some practical examples of this observation that I have encountered in my research while at Texas A&M. The presentation includes examples of using spacecraft-like coordinates and controls for robot manipulators; examples in vehicle-formation control; and examples in efficient integration for simulating equations of motion.

Bio: John E. Hurtado received his Ph.D. from Texas A&M University in 1995. He was at Sandia National Laboratories in Albuquerque, NM from 1995 to 2001, where he was first part of the Structural Dynamics Division and then part of the Intelligent Systems and Sensors Division. He returned to TAMU in 2001, where he is currently an Assistant Professor in the Department of Aerospace Engineering.

Hosts: Todd Griffith (1523), 505-845-2056; Tom Carne (1525) 505-844-3266

