UNIVERSITY OF CALIFORNIA
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MESA (Mechatronics, Embedded Systems and Automation) Lab

Presents

A Research Seminar at The

Applied Fractional Calculus (AFC) Workshop Series

Date/Time/Place: 05/19/2014, 4-6PM, MESA Lab (Room 820), 4225 N. Hospital Rd., Atwater, CA 95301. T: 209-2284398

Title: Optimization Strategies for Building Energy Manangement Systems

Abstract: We analyze the control complexity for Heating, Ventilation, and Air-Conditioning equipment units by a building automation demo system, introduce physical dynamic models about Air Handling Unit, degrees of freedom and constraints on the basis of model predictive control techonology

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Speaker's short biography:

Xiaobao Jia received his bachelor degree from Beijing University of Chemical Techonology in 1999, master degree from Xidian University China in 2006, and his major is automatical control. His research interests focusd on both the control theory and building energy-saving techology.

Key references:

[1] Victor M. Zavala. Real-Time Optimization Strategies for Building System. 2012

[2] Eduardo F. Camacho, Carlos Bordons. Model Predictive Control(second edition)