

Final Program (draft v1)
 2015 Fractional Calculus Day¹ @ UCMerced (<http://mechatronics.ucmerced.edu>) 7/6/2015. Monday.
 Organized by Prof. YangQuan Chen (yqchen@ieee.org)
 MESA Lab @ 4225 N. Hospital Rd., Atwater, CA 95301

Time	Presenter	Topic	Remarks
09:00-09:30	Dr. YangQuan Chen	Welcome and Introduction. Fractional Calculus Will Enable New Sciences	FCDay@xxx history
09:30-10:30	Dr. Antonio Visioli	Robust Fractional Order Controls	Special Invited Guest
10:30-11:00	Zhuo Li	Fractional Order Modeling and Control of MIMO Processes: My Contributions and Thoughts on Future Research Efforts	ABD @ EECS UCM
11:00-11:20	Fudong Ge	Regional controllability and observability for a class of time fractional order anomalous diffusion systems	CSC Donghua Univ. DRONEMATH
11:20-11:40	Dr. Hua Chen	Fractional-order Sliding-mode Control for Stabilization of Nonholonomic Mobile Robots	CSC Hohai Univ
11:40-12:00	Marwin Ko	Long Range Dependence Characterization & Applications in Thermal Infrared Imaging & Human Stress Detection	MSc in ME @ UCM
12:00-13:30	Lunch	90 min Farewell to Prof. Dr. Cuihong Wang	courtyard@Castle
13:30-14:10	Dr. Chih-Chun Chien	Memory effect in quantum systems	Physics@UCM
14:10-14:40	Dr. Cuihong Wang	LMI-based Stability Characterization for Systems with Generalized Frequency Variables	CSC Shanxi Normal Univ.
14:40-15:00	Jianhong Wang	Fractional Order Signal Processing Techniques for Ball Bearing Fault Diagnosis	NTU, China
15:00-15:20	Coffee/Tea Break		
15:20-15:40	Dr. Jianxin Liu	Precision Hovering Control of Quadcopter Using Fractional Order PID and Visual Servoing	Xihua Univ.
15:40-16:00	Karen Juan Chen	Optimal spraying control of a tempered time fractional order anomalous diffusion system	Jiangnan Univ. DRONEMATH
16:00-16:40	Dr. YangQuan Chen	FDTA2015 selected presentations: http://mechatronics.ucmerced.edu/FDTA2015 - Failure Prediction Model and ESR Modeling of Electrolytic Capacitor with Application to Predictive Maintenance - Mathematical Model of Human Operator Using Fractional Calculus for Human-in-the-Loop Control - A New Fractional Order Dynamic Model for Human Crowd Stampede System - Modeling Different Groups of Pedestrians With Physical Disability. Using the Social Force Model and Fractional Order Potential Fields - Is Our Universe Accelerating Dynamics Fractional Order	Subject to change
16:40-17:00	all	What's next – FSS2015 in Romania, ICFDA2016 Serbia	ME280 Fall 2016

¹ For 2013 edition of FCDay@UCMerced, check <http://mechatronics.ucmerced.edu/node/68> ; 2014: <http://mechatronics.ucmerced.edu/AFC> (June 2nd, 2014)