

Tutorial session

Interactive session

## 2005 ACC Technical Program Wednesday June 8, 2005

Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7	Track 8	Track 9	Track 10
Grand Ballroom II	Senate	Galleria III	Broadway II	Galleria I	Broadway III	Forum	Directors	Council	Broadway IV
08:15-09:15 Plenary Ballroom WePPL <i>Colonel Michael B. Leahy</i>									

09:30-11:30 <b>WeA01</b>	09:30-11:30 <b>WeA02</b>	09:30-11:30 <b>WeA03</b>	09:30-11:30 <b>WeA04</b>	09:30-11:30 <b>WeA05</b>	09:30-11:30 <b>WeA06</b>	09:30-11:50 <b>WeA07</b>	09:30-11:30 <b>WeA08</b>	09:30-11:30 <b>WeA09</b>	09:30-11:30 <b>WeA10</b>
Uncertain Switched and Hybrid Systems	Stability of Linear Systems	Networked Control Systems I	Trajectory Planning and Tracking for UAVs	Analysis and Control of Nonlinear Systems I	Learning Control Theory	Manufacturing Systems and Supply Chain	Optimization Methods and Applications	Model Predictive Control	Optimal Control and Filtering for Stochastic Systems

13:30-15:30 <b>WeB01</b>	13:30-15:30 <b>WeB02</b>	13:30-15:30 <b>WeB03</b>	13:30-15:30 <b>WeB04</b>	13:30-15:30 <b>WeB05</b>	13:30-15:30 <b>WeB06</b>	13:30-15:30 <b>WeB07</b>	13:30-15:30 <b>WeB08</b>	13:30-15:30 <b>WeB09</b>	13:30-15:30 <b>WeB10</b>
Stability of Hybrid Systems	Linear Parameter Varying Systems	Networked Control Systems - Delays and Robustness	Underwater Vehicles	Analysis and Control of Nonlinear Systems II	Learning Control	Mechanical Systems and Mechatronics	Optimization Algorithms	Nonlinear Model Predictive Control	Optimal Control Theory

15:45-17:45 <b>WeC01</b>	15:45-18:05 <b>WeC02</b>	15:45-17:45 <b>WeC03</b>	15:45-17:45 <b>WeC04</b>	15:45-17:45 <b>WeC05</b>	15:45-17:45 <b>WeC06</b>	15:45-17:45 <b>WeC07</b>	15:45-17:45 <b>WeC08</b>	15:45-17:45 <b>WeC09</b>	15:45-17:45 <b>WeC10</b>
Switched and Hybrid Systems	Linear System Design	Networked Control Systems - Stability and Identification	Tracking	Theory and Applications of Nonlinear Control	Neural Network Theory	Mechanical Systems and Robotics	Optimization and Control	Modeling and Identification of Process Control	Optimal Control Applications

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Track 11	Track 12	Track 13	Track 14	Track 15	Track 16	Track 17	Track 18	Special Session	Special Session
Studio	Executive	Broadway I	Galleria II	Parlor A	Grand Ballroom I	Parlor B	Parlor C	Grand Ballroom I	Grand Ballroom II
08:15-09:15 Plenary Ballroom WePPL <i>Colonel Michael B. Leahy</i>									

09:30-11:30 <b>WeA11</b>	09:30-11:30 <b>WeA12</b>	09:30-11:30 <b>WeA13</b>	09:30-11:30 <b>WeA14</b>	09:30-11:30 <b>WeA15</b>	09:30-11:30 <b>WeA16</b>	09:30-11:30 <b>WeA17</b>	09:30-11:30 <b>WeA18</b>		
Missile Guidance Control	Analysis and Control of Stochastic Systems	Biomodeling and Control I	Automotive Applications I	Fault Detection and Accommodation - Applications	Cooperative Control with the MultiUAV Simulation	Fuzzy Logic and Control I	New Techniques in Command Shaping for Vibration Suppression		

 11:30-1:10  
**Special Session I**

 11:30-1:10  
**Special Session II**

13:30-15:30 <b>WeB11</b>	13:30-15:30 <b>WeB12</b>	13:30-15:30 <b>WeB13</b>	13:30-15:30 <b>WeB14</b>	13:30-15:30 <b>WeB15</b>	13:30-15:30 <b>WeB16</b>	13:30-15:30 <b>WeB17</b>	13:30-15:30 <b>WeB18</b>		
Spacecraft Attitude Control	Control of Population Balance Systems	Biomodeling and Control II	Automotive Applications II (Engines)	Fault Detection and Accommodation	Cooperative Control Methods and Applications	Fuzzy Logic and Control II	Control Applications I		

15:45-18:05 <b>WeC11</b>	15:45-17:45 <b>WeC12</b>	15:45-17:45 <b>WeC13</b>	15:45-17:45 <b>WeC14</b>	15:45-17:45 <b>WeC15</b>	15:45-17:45 <b>WeC16</b>	15:45-17:45 <b>WeC17</b>	15:45-17:45 <b>WeC18</b>		
Aircraft Control and Applications	Probabilistic Methods and Stochastic Optimization	Bio-engineering	Automotive Applications III	Fault Detection in Uncertain Systems	Cooperative Control Theory	Intelligent Control Using Neural Networks	Control Applications II		

 6:00-7:30  
**Special Session III**

 6:00-7:30  
**Special Session IV**

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## 2005 ACC Technical Program Thursday June 9, 2005

Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7	Track 8	Track 9	Track 10
Grand Ballroom II	Senate	Galleria III	Broadway II	Galleria I	Broadway III	Forum	Directors	Council	Broadway IV
08:15-09:15 Plenary Ballroom ThPPL <i>Richard M. Murray</i>									

	09:30-11:30 <b>ThA02</b>  LMIs in Estimation and Control	09:30-11:30 <b>ThA03</b>  Stability and Control of Communications Networks	09:30-11:30 <b>ThA04</b>  Multi-Agent Coordination and Control	09:30-11:30 <b>ThA05</b>  Stability of Nonlinear Systems I	09:30-11:30 <b>ThA06</b>  Machine Learning and Classification	09:30-11:30 <b>ThA07</b>  Modeling, Identification and Control of Mechanical Systems	09:30-11:30 <b>ThA08</b>  Advanced Control for Ships in the 21st Century	09:30-11:30 <b>ThA09</b>  Modeling and Control for Industrial and Material Processing Applications	09:30-11:30 <b>ThA10</b>  Adaptive Linear Control
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11:30-1:30 Grand Ballroom of the Hilton  
**Awards Banquet**

	13:30-15:30 <b>ThB02</b>  Maximum Likelihood Subspace Identification for Linear, Nonlinear, and Closed-Loop Systems	13:30-15:30 <b>ThB03</b>  Communication Networks	13:30-15:30 <b>ThB04</b>  Spacecraft Formation and Control	13:30-15:30 <b>ThB05</b>  Theory and Applications of Sliding Mode Control	13:30-15:30 <b>ThB06</b>  Imaging, Modeling, and Control of Microscale Systems	13:30-15:30 <b>ThB07</b>  Stability, Control and Modeling of Mechanical Systems	13:30-15:30 <b>ThB08</b>  Control of Atomic Scale Surface Processes	13:30-15:30 <b>ThB09</b>  Model Reduction I (Theory)	13:30-15:30 <b>ThB10</b>  Adaptive Control and Signal Processing
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15:45-17:45 <b>ThC01</b>  Robust Control Design	15:45-17:45 <b>ThC02</b>  H Infinity Filtering and Control	15:45-17:45 <b>ThC03</b>  Networked Control Systems II	15:45-17:45 <b>ThC04</b>  UAV Autonomy and Formation Control	15:45-17:45 <b>ThC05</b>  Nonlinear Control Applications	15:45-17:45 <b>ThC06</b>  Mechatronics Applications	15:45-17:45 <b>ThC07</b>  Control and Identification of Large Structural Systems	15:45-17:45 <b>ThC08</b>  Batch Control	15:45-17:45 <b>ThC09</b>  Model Reduction II	15:45-17:45 <b>ThC10</b>  Direct Adaptive Control
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Studio	Executive	Broadway I	Galleria II	Parlor A	Grand Ballroom I	Parlor B	Parlor C	Grand Ballroom I	Grand Ballroom II
08:15-09:15 Plenary Ballroom ThPPPL <i>Richard M. Murray</i>									

09:30-11:30 <b>ThA11</b>  Aerospace Applications	09:30-11:30 <b>ThA12</b>  Intelligent Vehicles and Highway Systems	09:30-11:30 <b>ThA13</b>  Modeling and Control of Systems for Critical Care Ventilation	09:30-11:30 <b>ThA14</b>  Automotive Applications IV	09:30-11:30 <b>ThA15</b>  Fault Tolerant Systems		09:30-11:30 <b>ThA17</b>  Intelligent Control Applications	09:30-11:30 <b>ThA18</b>  Computational Methods for Optimal Filtering and Control		
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11:30-1:30 Grand Ballroom of the Hilton <b>Awards Banquet</b>									
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13:30-15:30 <b>ThB11</b>  Robust and Adaptive Control of Aerospace Vehicles	13:30-15:30 <b>ThB12</b>  Mixed-Integer Programming for Control - a Tutorial	13:30-15:30 <b>ThB13</b>  Sum of Squares in Industry: An Algorithmic Analysis Approach	13:30-15:30 <b>ThB14</b>  Power Systems - Electric and Automotive Applications	13:30-15:30 <b>ThB15</b>  Fault Diagnosis		13:30-15:30 <b>ThB17</b>  Control of Hybrid Systems	13:30-15:30 <b>ThB18</b>  Computational Methods for Stability of Time-Delay Systems		
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15:45-17:45 <b>ThC11</b>  Control for Disk Drives	15:45-17:45 <b>ThC12</b>  Adaptive Control of Rapidly Time-Varying Systems	15:45-17:45 <b>ThC13</b>  Modeling and Control for Biological Systems	15:45-17:45 <b>ThC14</b>  Automotive Powertrain Controls: Fundamentals and Frontiers	15:45-17:45 <b>ThC15</b>  Fault Detection / Accommodation - Theory and Applications	15:45-17:45 <b>ThC16</b>  Cooperative Electronic Attack	15:45-17:45 <b>ThC17</b>  Control of Networks - Applications	15:45-17:45 <b>ThC18</b>  Constrained Control		
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08:15-09:15 Plenary Ballroom FrPPL <i>Panagiotis D. Christofides</i>									

09:30-11:30 <b>FrA01</b>	09:30-11:30 <b>FrA02</b>	09:30-11:30 <b>FrA03</b>	09:30-11:30 <b>FrA04</b>	09:30-11:30 <b>FrA05</b>	09:30-11:30 <b>FrA06</b>	09:30-11:30 <b>FrA07</b>	09:30-11:30 <b>FrA08</b>	09:30-11:30 <b>FrA09</b>	09:30-11:30 <b>FrA10</b>
Robust Stability and Control	Estimation and Filtering I	Autonomous Systems and Networks	Unmanned Vehicles	Feedback Linearization Theory and Applications	Micro-Motion Control of Mechanical Systems	Observers I	Analysis and Control of Industrial Processes	Visual Servos	Robust Adaptive Control

13:30-15:30 <b>FrB01</b>	13:30-15:30 <b>FrB02</b>	13:30-15:30 <b>FrB03</b>	13:30-15:30 <b>FrB04</b>	13:30-15:30 <b>FrB05</b>	13:30-15:30 <b>FrB06</b>	13:30-15:30 <b>FrB07</b>	13:30-15:30 <b>FrB08</b>	13:30-15:30 <b>FrB09</b>	13:30-15:30 <b>FrB10</b>
Robust Control	Estimation and Filtering II	Sliding Mode Control I (Theory)	UAV's: Control, Estimation and Applications	Stability of Nonlinear Systems II	Modelling and Control of MEMS in Industrial Applications	Observers II	PI/PID Control	Analysis and Control of Time-Delay Systems	Robust and Optimal Control

15:45-17:45 <b>FrC01</b>	15:45-17:45 <b>FrC02</b>	15:45-17:45 <b>FrC03</b>	15:45-17:45 <b>FrC04</b>	15:45-17:45 <b>FrC05</b>	15:45-17:45 <b>FrC06</b>	15:45-18:05 <b>FrC07</b>	15:45-17:45 <b>FrC08</b>	15:45-17:45 <b>FrC09</b>	15:45-17:45 <b>FrC10</b>
Control and Optimization of Distributed Processes	Filtering Applications	Sliding Mode Control II - Theory and Applications	Multiple Unmanned Air Vehicles	Control of Output Feedback Nonlinear Systems	Vibration, Analysis and Control	Control Theory and Applications	Observer Design and Applications	Large / Distributed Systems	Output Feedback Tracking and Control

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08:15-09:15 Plenary Ballroom FrPPL <i>Panagiotis D. Christofides</i>									

09:30-11:30 <b>FrA11</b>	09:30-11:30 <b>FrA12</b>	09:30-11:30 <b>FrA13</b>	09:30-11:30 <b>FrA14</b>	09:30-11:30 <b>FrA15</b>	09:30-11:30 <b>FrA16</b>	09:30-11:30 <b>FrA17</b>	09:30-11:30 <b>FrA18</b>		
Control and Pointing Challenges of Antennas and Telescopes	Stability of Switched Systems	Control Applications in Ventricular Assist Device Development	Modeling and Control of Advanced Automotive Propulsion Systems	Distributed Parameter Systems	Adaptive Flight Control	Discrete Event Systems	Control of Wireless Communications Networks		

11:30-1:10  
**Special Session V**

13:30-15:30 <b>FrB11</b>	13:30-15:30 <b>FrB12</b>	13:30-15:30 <b>FrB13</b>	13:30-15:30 <b>FrB14</b>	13:30-15:30 <b>FrB15</b>	13:30-15:30 <b>FrB16</b>	13:30-15:30 <b>FrB17</b>	13:30-15:30 <b>FrB18</b>		
Control of Underwater Vehicles	Power and Energy	Design of Biological Feedback Circuits	Modeling and Control of Automotive Powertrain Systems	Identification I	Introduction to the MultiUAV Simulation and Its Application to Cooperative Control Research	Advanced Controls for Manufacturing	Industry Needs in Embedded Control Education		

15:45-17:45 <b>FrC11</b>	15:45-17:45 <b>FrC12</b>	15:45-17:45 <b>FrC13</b>	15:45-17:45 <b>FrC14</b>	15:45-17:45 <b>FrC15</b>	15:45-17:45 <b>FrC16</b>	15:45-17:45 <b>FrC17</b>	15:45-17:45 <b>FrC18</b>		
Mobility and Locomotion	Discrete-Time Systems: Design and Applications	Autonomous Systems	Advances in Automotive Sensing and Actuation	Identification II	Active-Vision Control Systems for Complex Adversarial 3-D Environments	Advances in Nonlinear Control	Control Education		