

**Best presentations in session      ACC2014      Wednesday, June 4**

11:20-11:40		WeA01.5
<i>A Multivariable Adaptive Controller for a Quadrotor with Guaranteed Matching Conditions</i> , pp. 26-31.		
Selfridge, Justin		Univ. of Virginia
Tao, Gang		Univ. of Virginia
11:40-12:00		WeA02.6
<i>Power Management of Cooling Systems with Dynamic Pricing</i> , pp. 73-78.		
Hosseini, Saghar		Univ. of Washington
Dai, Ran		Iowa State Univ.
Mesbahi, Mehran		Univ. of Washington
11:20-11:40	WeA03.5	
<i>A New Approach for Solving the Five-Point Relative Pose Problem for Vision-Based Estimation and Control</i> , pp. 103-109.		
Fathian, Kaveh	Univ. of Texas at Dallas	
Gans, Nicholas	Univ. of Texas at Dallas	
11:20-11:40		WeA04.5
<i>A Reduced Order Electrolyte Enhanced Single Particle Lithium Ion Cell Model for Hybrid Vehicle Applications</i> , pp. 141-146.		
Tanim, Tanvir	Mechatronics Res. Lab. The Pennsylvania State Univ.	
Rahn, Christopher D.		Penn State Univ.
Wang, Chao-Yang		Pennsylvania State Univ.
10:40-11:00		WeA05.3
<i>Distributed Allocation of Mobile Sensing Agents in Geophysical Flows</i> , pp. 165-171.		
Hsieh, M. Ani		Drexel Univ.
Mallory, Kenneth		Drexel Univ.
Forgoston, Eric		Montclair State Univ.
Schwartz, Ira		US Naval Res. Lab.
10:40-11:00		WeA06.3
<i>Discrete Adaptive Sliding Control of Automotive Powertrains (I)</i> , pp. 202-207.		
Pan, Selina		Univ. of California, Berkeley
Edelberg, Kyle		Univ. of California, Berkeley
Hedrick, Karl		Univ. of California at Berkeley
11:00-11:20		WeA08.4
<i>Computational Efficiency of Solving the DFN Battery Model Using Descriptor Form with Legendre Polynomials and Galerkin Projections (I)</i> , pp. 260-267.		
Kehs, Michelle		The Pennsylvania State Univ.
Beeney, Michael		The Pennsylvania State Univ.
Fathy, Hosam K.		Penn State Univ.
11:40-12:00		WeA09.6
<i>A Constructive Differential Game Approach to Collision Avoidance in Multi-Agent Systems</i> , pp. 311-316.		
Mylvaganam, Thulasi		Imperial Coll. London
Sassano, Mario		Univ. of Rome, Tor Vergata
Astolfi, Alessandro		Imperial Coll. & Univ. of Rome
11:20-11:40		WeA10.5
<i>Transient Performance Improvement of Linear Systems Using a Split-Path Nonlinear Integrator</i> , pp. 341-346.		
Loon, van, S.J.L.M. (Bas)		Eindhoven Univ. of Tech.
Hunnekens, Bram		Eindhoven Univ. of Tech.
Heemels, W.P.M.H.		Eindhoven Univ. of Tech.
Van De Wouw, Nathan		Eindhoven Univ. of Tech.
Nijmeijer, Hendrik		Eindhoven Univ. of Tech.

10:00-10:20	WeA11.1
<i>Analysis of Tracking Control Designs for a Delay Differential Equation Model Used in the Study of Nanoparticle Dosing Strategies (I)</i> , pp. 353-358.	
Bracey, Scarlett Savannah	Louisiana Tech. Univ.
Evans, Katie A.	Louisiana Tech. Univ.
10:00-10:20	WeA12.1
<i>Scalable Model Predictive Control for Multi-Evaporator Vapor Compression Systems (I)</i> , pp. 392-397.	
Koeln, Justin	Univ. of Illinois Urbana-Champaign
Alleyne, Andrew G.	Univ. of Illinois, Urbana-Champaign
11:40-12:00	WeA13.6
<i>Distributed Estimation and Tracking for Radio Environment Mapping</i> , pp. 464-470.	
Kong, Ruofan	Stevens Inst. of Tech.
Zhang, Wenlin	Western Digital Corp.
Guo, Yi	Stevens Inst. of Tech.
11:40-12:00	WeA14.6
<i>Finite State Control of POMDPs with LTL Specifications</i> , pp. 501-508.	
Sharan, Rangoli	California Inst. of Tech.
Burdick, Joel W.	California Inst. of Tech.
10:00-10:20	WeA15.1
<i>Cost Performance Based Control Reconfiguration in Multi-Agent Systems</i> , pp. 509-516.	
Gallehdari, Zahra	Concordia Univ.
Meskin, Nader	Qatar Univ.
Khorasani, Khashayar	Concordia Univ.
Karimi, Hamid Reza	Univ. of Agder
11:20-11:40	WeA16.5
<i>Deadzone Compensation and Anti-Windup Design for Brake-By-Wire Systems</i> , pp. 572-577.	
Todeschini, Fabio	Pol. di Milano
Formentin, Simone	Pol. di Milano
Panzani, Giulio	ETH Zuerich
Corno, Matteo	Pol. di Milano
Savaresi, Sergio M.	Pol. Di Milano
Zaccarian, Luca	Univ. of Trento
11:20-11:40	WeA17.5
<i>Information Driven Optimal Sensor Control for Efficient Target Localization and Tracking (I)</i> , pp. 610-615.	
Adurthi, Nagavenkat	Univ. at Buffalo
Singla, Puneet	Univ. at Buffalo
11:20-11:40	WeA18.5
<i>The Continuous-Discrete Time Feedback Particle Filter</i> , pp. 648-653.	
Yang, Tao	Univ. of Illinois at Urbana-Champaign
Blom, Henk A.P.	National Aerospace Lab. NLR & Delft Univ.
Mehta, Prashant G.	Univ. of Illinois, Urbana-Champaign
11:00-11:20	WeA19.4
<i>Credible Autocoding of Fault Detection Observers (I)</i> , pp. 672-677.	
Wang, Timothy	Georgia Inst. of Tech.
Esna Ashari, Alireza	Georgia Inst. of Tech.
Jobredeaux, Romain Julien	Georgia Inst. of Tech.
Feron, Eric	Georgia Tech.

15:10-15:30	WeB01.6
<i>Adaptive Control Design for Underactuated Systems Using Sums-Of-Squares Optimization</i> , pp. 721-728.	
Moore, Joseph	Massachusetts Inst. of Tech.
Tedrake, Russ	MIT
15:10-15:30	WeB02.6
<i>On Reactive Power Flow and Voltage Stability in Microgrids</i> , pp. 759-764.	
Gentile, Basilio	ETH Zürich
Simpson-Porco, John W.	Univ. of California Santa Barbara
Dörfler, Florian	Univ. of California Los Angeles
Zampieri, Sandro	Univ. di Padova
Bullo, Francesco	Univ. California at Santa Barbara
15:10-15:30	WeB05.6
<i>A Continuum Based Approach for Multi Agent Systems under Local Inter-Agent Communication</i> , pp. 825-830.	
Rastgoftar, Hossein	Drexel Univ.
Jayasuriya, Suhada	Drexel Univ.
14:30-14:50	WeB06.4
<i>Mode Switches among SI, SACI, and HCCI Combustion and Their Influence on Drive Cycle Fuel Economy (I)</i> , pp. 849-854.	
Nüesch, Sandro	Univ. of Michigan
Hellström, Erik	Ford Motor Company
Jiang, Li	Robert Bosch LLC
Stefanopoulou, Anna G.	Univ. of Michigan
13:30-13:50	WeB07.1
<i>Supervisory Control for Intersection Collision Avoidance in the Presence of Uncontrolled Vehicles</i> , pp. 867-873.	
Ahn, Heejin	Massachusetts Inst. of Tech.
Colombo, Alessandro	Pol. di Milano
Del Vecchio, Domitilla	Massachusetts Inst. of Tech.
Casbeer, David W.	Air Force Res. Lab.
Cao, Yongcan	Air Force Res. Lab.
Kingston, Derek B.	Air Force Res. Lab.
14:50-15:10	WeB08.5
<i>An Enhanced Method for the Determination of Load Following Reserves (I)</i> , pp. 926-933.	
Muzhikyan, Aramazd	Masdar Inst. of Science and Tech.
Farid, Amro	Masdar Inst. of Science and Tech.
Youcef-Toumi, Kamal	Massachusetts Inst. of Tech.
13:30-13:50	WeB09.1
<i>Hybrid Agent-Based Method for Scheduling of Complex Batch Processes</i> , pp. 940-945.	
Chu, Yunfei	Northwestern Univ.
You, Fengqi	Northwestern Univ.
Wassick, John	The Dow Chemical Company
13:50-14:10	WeB09.2
<i>Finite-Time Consensus on the Median Value by Discontinuous Control</i> , pp. 946-951.	
Franceschelli, Mauro	Univ. of Cagliari
Giua, Alessandro	Univ. of Cagliari, Italy / Aix-Marseille Univ. France
Pisano, Alessandro	Univ. of Cagliari
14:50-15:10	WeB10.5

<i>Modeling and Control of a Novel X-Y Parallel Piezoelectric-Actuator Driven Nanopositioner</i> , pp. 1003-1008.	
Liu, Pengbo	Shandong Univ.
Yan, Peng	Beihang Univ.
Zhang, Zhen	Tsinghua Univ.
Leng, Tongtong	Shandong Univ.
13:30-13:50	WeB11.1
<i>Application of Enthalpy-Based Feedback Control Methodology to the Two-Sided Stefan Problem (I)</i> , pp. 1015-1020.	
Petrus, Bryan	Univ. of Illinois at Urbana-Champaign
Bentsman, Joseph	Univ. of Illinois at Urbana-Champaign
Thomas, Brian G.	Univ. of Illinois at Urbana-Champaign
13:50-14:10	WeB12.2
<i>Predictive HVAC Control Using a Markov Occupancy Model (I)</i> , pp. 1057-1062.	
Dobbs, Justin	Cornell Univ.
Hencey, Brandon	Cornell Univ.
14:10-14:30	WeB13.3
<i>Gaussian Mixture Model Based High Dimensional SLAM Utilizing Sparse Grid Quadrature</i> , pp. 1102-1107.	
Turnowicz, Matthew	Mississippi State Univ. Department of Aerospace Engineerin
Cheng, Yang	Mississippi State Univ.
13:50-14:10	WeB14.2
<i>Estimating the Size of Temporal Memory for Symbolic Analysis of Time-Series Data</i> , pp. 1126-1131.	
Srivastav, Abhishek	GE Global Res.
15:10-15:30	WeB15.4
<i>Game-Theoretic Methods for Secure and Resilient Cyber-Physical Systems (I)*</i> .	
Zhu, Quanyan	New York Univ.
14:30-14:50	WeB16.4
<i>A Universal Feedback Controller for Discontinuous Dynamical Systems Using Nonsmooth Control Lyapunov Functions</i> , pp. 1174-1179.	
Sadikhov, Teymur	Georgia Inst. of Tech.
Haddad, Wassim M.	Georgia Inst. of Tech.
Malisoff, Michael	Louisiana State Univ.
14:10-14:30	WeB17.3
<i>Robust Probabilistic Conflict Prediction for Sense and Avoid (I)</i> , pp. 1204-1209.	
Adaska, Jason	Numerica
Obermeyer, Karl	Univ. of California, Santa Barbara
Schmidt, Eric	Numerica Corp.
14:50-15:10	WeB18.5
<i>Energy-Efficient Collision-Free Trajectory Planning Using Alternating Quadratic Programming</i> , pp. 1255-1260.	
Zhao, Yiming	Halliburton Energy Service
Wang, Yebin	Mitsubishi Electric Res. Lab.
Bortoff, Scott A.	Mitsubishi Electric Res. Lab.
Nikovski, Daniel	Mitsubishi Electric Res. Lab.
15:10-15:30	WeB19.6
<i>Actuation Failure Modes and Effects Analysis for a Small UAV</i> , pp. 1298-1303.	
Freeman, Paul	Univ. of Minnesota
Balas, Gary J.	Univ. of Minnesota
17:40-18:00	WeC01.6
<i>Adaptive Architectures for Distributed Control of Modular Systems</i> , pp. 1334-1339.	
Yucelen, Tansel	Missouri Univ. of Science and Tech.

17:40-18:00	WeC02.6
<i>An Efficient Technique for Solving the Scheduling of Appliances in Smart-Homes</i> , pp. 1370-1376.	
Hendrickx, Julien M.	Univ. catholique de Louvain
Jungers, Raphaël M.	Univ. of Louvain
Vankeerberghen, Guillaume	Univ. catholique de Louvain
Wolsey, Laurence	Univ. catholique de Louvain
17:00-17:20	WeC03.4
<i>Trajectory-Tracking Control Law Design for Unmanned Aerial Vehicles with an Autopilot in the Loop</i> , pp. 1396-1401.	
Sun, Liang	Brigham Young Univ.
Beard, Randal	Brigham Young Univ.
Pack, Daniel J.	USAF Acad.
16:20-16:40	WeC04.2
<i>A Framework for Modeling and Analysis of Dynamical Properties of Spiking Neurons</i> , pp. 1420-1425.	
Phillips, Sean	Univ. of Arizona
Sanfelice, Ricardo G.	Univ. of Arizona
16:00-16:20	WeC05.1
<i>Multiplayer Reach-Avoid Games</i> , pp. 1450-1455.	
Chen, Mo	Univ. of California, Berkeley
Zhou, Zhengyuan	UC Berkeley
Tomlin, Claire J.	UC Berkeley
17:20-17:40	WeC06.5
<i>Robust Rate-Based Model Predictive Control of Diesel Engine Air Path</i> , pp. 1511-1516.	
Huang, Mike	Univ. of Michigan
Nakada, Hayato	Toyota Motor Corp.
Butts, Kenneth R.	Toyota Tech. Center
Kolmanovsky, Ilya V.	The Univ. of Michigan
17:40-18:00	WeC06.6
<i>Exhaust Gas Recirculation Control through Extremum Seeking in a Low Temperature Combustion Diesel Engine</i> , pp. 1517-1522.	
Tan, Qingyuan	Univ. of Windsor
Divekar, Prasad S.	Univ. of Windsor
Chen, Xiang	Univ. of Windsor
Zheng, Ming	Univ. of Windsor
Tan, Yonghong	Shanghai Normal Univ.
16:40-17:00	WeC07.3
<i>Model-Based Estimation of Piezoelectric Fuel Injector Parameters (I)</i> , pp. 1535-1540.	
Pietrzak, Bradley	Purdue Univ.
Le, Dat	Purdue Univ.
Shaver, Gregory M.	Purdue Univ.
16:40-17:00	WeC08.3
<i>Revenue Maximization of Electricity Generation for a Wind Turbine Integrated with a Compressed Air Energy Storage System (I)</i> , pp. 1566-1571.	
Saadat, Mohsen	Univ. of Minnesota
Shirazi, Farzad	Univ. of Minnesota
Li, Perry Y.	Univ. of Minnesota
16:00-17:00	WeC09.1

<i>Close Proximity Dynamics and Control about Asteroids (I)</i> , pp. 1590-1604.		
Scheeres, Daniel		The Univ. of Colorado
17:40-18:00		WeC10.6
<i>Control Design for Division and Compensation with Application to High-Speed/Large-Range Nano-Positioning</i> , pp. 1649-1654.		
Soltani Bozchalooi, Iman		Massachusetts Inst. of Tech.
Youcef-Toumi, Kamal		Massachusetts Inst. of Tech.
17:40-18:00		WeC11.6
<i>A Modified Balanced POD Model Reduction Algorithm for Parabolic PDEs with Unbounded Inputs (I)</i> , pp. 1686-1691.		
Hu, Weiwei		Univ. of Southern California
Singler, John		Missouri Univ. of Science and Tech.
16:40-17:00		WeC12.3
<i>Paracontracting Multiagent Coordination Optimization: Convergence and Parallelization</i> , pp. 1704-1709.		
Hui, Qing		Texas Tech. Univ.
Zhang, Haopeng		Texas Tech. Univ.
17:00-17:20		WeC13.4
<i>Implementation Challenges of Covariance Estimation Techniques for an Experimental Polymerization System</i> , pp. 1749-1754.		
Rincon, Franklin D.		Univ. of São Paulo
Carrillo Le Roux, Galo Antonio		Pol. School of the Univ. of São Paulo
Lima, Fernando V.		West Virginia Univ.
16:00-16:20		WeC14.1
<i>Incremental Minimum-Violation Control Synthesis for Robots Interacting with External Agents (I)</i> , pp. 1767-1774.		
Chaudhari, Pratik		Massachusetts Inst. of Tech.
Wongpiromsarn, Tichakorn		Thailand Center of Excellence for Life Sciences
Frazzoli, Emilio		Massachusetts Inst. of Tech.
Girard, Anouck		Univ. of Michigan, Ann Arbor
17:20-17:40		WeC15.5
<i>Minimum-Time Contour Tracking with Model Predictive Control Approach (I)</i> , pp. 1827-1832.		
Chang, Yen-Chi		UCLA
Tsao, Tsu-Chin		Univ. of California, Los Angeles
16:40-17:00		WeC16.3
<i>A Path Planning Approach to Compute the Smallest Robust Forward Invariant Sets</i> , pp. 1851-1856.		
Mukhopadhyay, Shayok		Georgia Inst. of Tech.
Zhang, Fumin		Georgia Inst. of Tech.
16:40-17:00		WeC17.3
<i>Mapping with a Ground Robot in GPS Denied and Degraded Environments (I)</i> , pp. 1892-1897.		
Rogers III, John		US Army Res. Lab.
Fink, Jonathan		US Army Res. Lab.
Stump, Ethan		US Army Res. Lab.
17:20-17:40		WeC18.5
<i>On the Existence of Optimal Strategies in Multi-Agent Stochastic Teams</i> , pp. 1945-1950.		
Gupta, Abhishek		Univ. of Illinois at Urbana Champaign
Yuksel, Serdar		Queen's Univ.
Langbort, Cedric		Univ. of Illinois, Urbana-Champaign

Basar, Tamer

Univ. of Illinois, Urbana-Champaign

17:20-17:40

WeC19.5

---

*Fault Detection and Isolation in Hybrid Process Systems Using a Combined Data-Driven and Observer-Design Methodology*, pp. 1981-1986.

Tong, Chudong

Univ. of California, Davis

El-Farra, Nael H.

Univ. of California, Davis

Palazoglu, Ahmet N.

Univ. of California at Davis