

11:00-11:20		FrA02.4
<i>Projection-Based Switched System Optimization (I).</i>		
Caldwell, Timothy		Northwestern Univ.
Murphey, Todd		Northwestern Univ.
10:20-10:40		FrA03.2
<i>Robust Predictive Control Design for Optimal Wet-Clutch Engagement.</i>		
Dutta, Abhishek		Ghent Univ.
De Keyser, Robin M.C.		Univ. of Gent
Ionescu, Clara		Ghent Univ.
Stoev, Julian	Flanders' MECHATRONICS Tech. Centre	
Pinte, Gregory	Flanders' Mechatronics Tech. Centre	
Symens, Wim		FMTC
10:40-11:00		FrA04.3
<i>Intercepting Maneuvering Target with Specified Impact Angle by Modified SDRE Technique.</i>		
Bardhan, Rajarshi		IISc
Ghose, Debasish		Indian Inst. of Science
10:40-11:00		FrA05.3
<i>Nonlinear Robust Tracking Control of a Quadrotor UAV on SE(3).</i>		
Lee, Taeyoung		George Washington Univ.
Leok, Melvin		Univ. of California, San Diego
McClamroch, N. Harris		Univ. of Michigan
11:20-11:40		FrA06.5
<i>Further Results on Delay Robustness of Interconnected Passive Systems.</i>		
Summers, Erin		UC Berkeley
Arcak, Murat		Univ. of California, Berkeley
Packard, Andrew K.		Univ. of California at Berkeley
11:00-11:20		FrA07.4
<i>Application of the Extended High Gain Observer to Underactuated Mechanical Systems.</i>		
Bou Serhal, Rachel E.		Michigan State Univ.
Khalil, Hassan K.		Michigan State Univ.
10:40-11:00		FrA08.3
<i>Optimal Disturbance Accommodation with Limited Model Information.</i>		
Farokhi, Farhad		KTH - Royal Inst. of Tech.
Langbort, Cedric		Univ. of Illinois, Urbana-Champaign
Johansson, Karl H.		Royal Inst. of Tech.
10:40-11:00		FrA09.3
<i>Stability Analysis and Application of Kalman Filtering with Irregularly Sampled Measurements.</i>		
Fang, Huazhen		Univ. of California, San Diego
de Callafon, Raymond A.		Univ. of California, San Diego
11:00-11:20		FrA10.4
<i>Whole-Body Trajectory Optimization for Humanoid Falling.</i>		
Wang, Jiuguang		Carnegie Mellon Univ.
Whitman, Eric C.		Carnegie Mellon Univ.
Stilman, Mike		Georgia Tech.
11:40-12:00		FrA11.6
<i>Proportional Heading Control for Planar Navigation: The Chaplygin Beanie and Fishlike Robotic Swimming.</i>		
Kelly, Scott		Univ. of North Carolina at Charlotte
Fairchild, Michael		UNC Charlotte
Hassing, Peter		Univ. of North Carolina at Charlotte
Tallapragada, Phanindra		Univ. of North Carolina, Charlotte
11:20-11:40		FrA12.5

Attenuation of Heave-Induced Pressure Oscillations in Offshore Drilling Systems.

Mahdianfar, Hessam
Aamo, Ole Morten
Pavlov, Alexey

Norwegian Univ. of Science and Tech. (NTNU)
NTNU
Statoil R&D Center

11:00-11:20 FrA13.4

Experimental Validation of a New Moving Horizon Estimator Approach for Networked Control Systems with Unsynchronized Clocks.

Philipp, Peter
Altmannshofer, Simon

Tech. Univ. München
Tech. Univ. München

10:20-10:40 FrA14.2

Oxygen Fraction Estimation for Diesel Engines Utilizing Variable Intake Valve Actuation (I).

Kocher, Lyle
Stricker, Karla
Van Alstine, Dan
Koeberlein, Edward
Shaver, Gregory M.

Purdue Univ.
Purdue Univ.
Purdue Univ. School of Mechanical Engineering
Purdue Univ. School of Mechanical Engineering
Purdue Univ.

11:00-11:20 FrA15.4

Robust Controller for Wheeled Mobile Robots.

Chalhoub, Nabil G.
Matta, Sherif

Wayne State Univ.
Wayne State Univ.

10:00-10:20 FrA16.1

Robust Adaptive Control of the Sawtooth Instability in Nuclear Fusion (I).

Bolder, Joost
Witvoet, Gert
De Baar, Marco
Van De Wouw, Nathan
Haring, Mark
Westerhof, Egbert
Doelman, Niek
Steinbuch, Maarten

Eindhoven Univ. of Tech.
Eindhoven Univ. of Tech.
FOM
Eindhoven Univ. of Tech.
Norwegian Univ. of Science and Tech.
FOM
TNO Science and Industry
Eindhoven Univ. of Tech.

11:20-11:40 FrA17.5

Design and Stability of Discrete-Time Quantum Filters with Measurement Imperfections (I).

Somaraju, Ram Abhinav
Dotsenko, Igor
Sayrin, Clément
Rouchon, Pierre

Vrije Univ. Brussel
Ec. Normale Supérieure
Lab. Kastler Brossel, Ec. Normale Supérieure, UPMC, CNR
Mines ParisTech

10:40-11:00 FrA18.3

Optimal Placement of Bearing-Only Sensors for Target Localization.

Zhao, Shiyu
Chen, Ben M.
Lee, Tong Heng

National Univ. of Singapore
National Univ. of Singapore
National Univ. of Singapore

10:00-10:20 FrA19.1

Symbolic Transient Time-Series Analysis for Fault Detection in Aircraft Gas Turbine Engines.

Sarkar, Soumalya
Mukherjee, Kushal
Sarkar, Soumik
Ray, Asok

Pennsylvania State Univ.
Pennsylvania State Univ.
United Tech. Res. Center
Pennsylvania State Univ.

10:20-10:40 FrA20.2

A Convex Approach to Generalized Fixed Order Interpolation.

Feng, Chao
Lagoa, Constantino M.
Sznaier, Mario

Pennsylvania State Univ.
Pennsylvania State Univ.
Northeastern Univ.

11:40-12:00 FrA21.6

Robust Pole Placement for Plants with Semialgebraic Parametric Uncertainty.

Cerone, Vito

Pol. di Torino

Piga, Dario	Delft Univ. of Tech.
Regruto, Diego	Pol. di Torino
10:40-11:00	FrA22.3
<i>Automatic Generation of High-Speed Solvers: CVXGEN (I).</i>	
Mattingley, Jacob	Stanford Univ.
Wang, Yang	Stanford
Boyd, Stephen P.	Stanford Univ.
15:10-15:30	FrB01.6
<i>Distributed Decision Propagation in Mobile Agent Networks.</i>	
Sarkar, Soumik	United Tech. Res. Center
Mukherjee, Kushal	Pennsylvania State Univ.
Ray, Asok	Pennsylvania State Univ.
14:10-14:30	FrB02.3
<i>The Motion Grammar Calculus for Context-Free Hybrid Systems.</i>	
Dantam, Neil	Georgia Inst. of Tech.
Stilman, Mike	Georgia Tech.
13:30-13:50	FrB03.1
<i>Model-Based Feedforward for Inferential Motion Systems, with Application to a Prototype Lightweight Motion System.</i>	
Ronde, Michael	Eindhoven Univ. of Tech.
Molengraft, René van de	Eindhoven Univ. of Tech.
Steinbuch, Maarten	Eindhoven Univ. of Tech.
13:50-14:10	FrB04.2
<i>Average Dwell Time Condition of Unknown Switched Linear Systems with Variable Structure Adaptive Backstepping Control.</i>	
Chiang, Ming-Li	National Taiwan Univ.
Fu, Li-Chen	National Taiwan Univ.
13:50-14:10	FrB05.2
<i>A Topological Map Based Approach to Long Range Operation of an Unmanned Surface Vehicle.</i>	
Gadre, Aditya	Virginia Tech.
Du, Shu	Virginia Tech.
Stilwell, Daniel J.	Virginia Pol. Inst. & State Univ.
15:10-15:30	FrB06.6
<i>Stability Criteria for Uncertain Piecewise Affine Time-Delay Systems.</i>	
Duan, Shiming	Univ. of Michigan
Ni, Jun	Univ. of Michigan
Ulsoy, A. Galip	Univ. of Michigan
13:30-13:50	FrB07.1
<i>Smooth and Time-Optimal Trajectory Planning for Robot Manipulators.</i>	
Müller, Peter	Univ. of Kaiserslautern
Boucherit, Ryad	Wilhelm Büchner Hochschule
Liu, Steven	Univ. of Kaiserslautern
13:30-13:50	FrB08.1
<i>A Frequency Domain Method for Optimal Periodic Control.</i>	
Epperlein, Jonathan P.	Univ. of California, Santa Barbara
Bamieh, Bassam	Univ. of California at Santa Barbara
14:10-14:30	FrB09.3
<i>Scaling Parameter in Unscented Transform: Analysis and Specification.</i>	
Straka, Ondrej	Univ. of West Bohemia
Dunik, Jindrich	Univ. of West Bohemia
Simandl, Miroslav	Univ. of West Bohemia in Pilsen
15:10-15:30	FrB11.6
<i>Fuzzy Opinion Dynamics.</i>	
Oliva, Gabriele	Univ. Roma Tre of Rome, Italy
Gasparri, Andrea	Univ. of "Roma Tre"

13:30-13:50		FrB12.1
<i>Model Predictive Quality Control of Batch Processes (I).</i>		
Aumi, Siam		McMaster Univ.
Corbett, Brandon		McMaster Univ.
Mhaskar, Prashant		McMaster Univ.
14:50-15:10		FrB13.5
<i>Decentralized Static Output-Feedback Control Via Networked Communication.</i>		
Bauer, Nicolas William		Univ. of Tech. Eindhoven
Donkers, M.C.F.		Eindhoven Univ. of Tech.
Van De Wouw, Nathan		Eindhoven Univ. of Tech.
Heemels, W.P.M.H.		Eindhoven Univ. of Tech.
13:30-13:50		FrB14.1
<i>Prioritization-Based Constrained Trajectory Planning for a Nonlinear Turbocharged Air System with EGR.</i>		
Kotman, Philipp	Robert Bosch GmbH; Vienna Univ. of Tech.	
Bitzer, Matthias		Bosch Company
Kugi, Andreas		Vienna Univ. of Tech.
14:50-15:10		FrB15.5
<i>Service Level-Oriented Route Guidance for Overlapping Routes in Road Networks: A Comparison with MPC (I).</i>		
Landman, Ramon Leonardus		Delft Univ. of Tech.
Hegyi, Andreas		Delft Univ. of Tech.
Hoogendoorn, Serge		Delft Univ. of Tech.
15:10-15:30		FrB16.6
<i>Modeling and Control Design for a Prototype Lighter-Than-Air Wind Energy System.</i>		
Vermillion, Christopher		Altaeros Energies
Grunnagle, Jerome		Univ. of Michigan
Kolmanovsky, Ilya V.		The Univ. of Michigan
14:30-14:50		FrB17.4
<i>Sampled-Data LQG Control for a Class of Linear Quantum Systems.</i>		
Maalouf, Aline I.		Univ. of New South Wales at ADFA
Petersen, Ian		Univ. of New South Wales at the AustralianDefenceForceAcad.
14:50-15:10		FrB18.5
<i>Distributed Convergence to Nash Equilibria by Adversarial Networks with Undirected Topologies.</i>		
Ghahesifard, Bahman		Univ. of California San Diego
Cortes, Jorge		Univ. of California, San Diego
15:10-15:30		FrB19.6
<i>Fault Diagnosis Using Contribution Plots with Missing Data Approach.</i>		
Liu, Jialin		Fortune Inst. of Tech.
Shen, Jui-Fu	New Materials Res. & Development Department, ChinaSteel Corp.	
Chen, Ding-Sou	New Materials Res. & Development Department, China Steel Cor	
Lee, Ming-Wei	New Materials Res. & Development Department, China Steel Cor	
14:50-15:10		FrB20.5
<i>An Exact Convex Solution to Receding Horizon Control.</i>		
Essick, Ray		Univ. of Illinois at Urbana-Champaign
Lee, Ji-Woong		Pennsylvania State Univ.
Dullerud, Geir E.		Univ. of Illinois, Urbana-Champaign
14:10-14:30		FrB21.3
<i>Loop-Shaping Controller Design for Nonlinear Systems Using the Contoured Robust Controller Bode (CRCBode) Plot.</i>		
Taylor, Jd		Carnegie Mellon Univ.
Gentilini, Iacopo		Carnegie Mellon Univ.
Messner, William		Carnegie Mellon Univ.
14:10-14:30		FrB22.3
<i>Distributed Synthesis and Control of Constrained Linear Systems.</i>		
Conte, Christian		ETH Zurich

Voellmy, Niklaus Roman	ETH Zürich
Zeilinger, Melanie N.	École Pol. Fédérale de Lausanne (EPFL)
Morari, Manfred	ETH Zurich
Jones, Colin Neil	École Pol. Fédérale de Lausanne (EPFL)
16:40-17:00	FrC01.3
<i>Leader Selection Via the Manipulability of Leader-Follower Networks.</i>	
Kawashima, Hiroaki	Kyoto Univ. / Georgia Inst. of Tech.
Egerstedt, Magnus	Georgia Inst. of Tech.
17:20-17:40	FrC02.5
<i>Bisimilarity Enforcing Supervisory Control of Nondeterministic Discrete Event Systems.</i>	
Sun, Yajuan	National Univ. of Singapore
Lin, Hai	Univ. of Notre Dame
17:00-17:20	FrC03.4
<i>Hybrid RNC-Isolation of Structures under Near-Fault Earthquakes.</i>	
Ismail, Mohammed	Zagazig Univ.
Pozo, Francesc	Univ. Pol. de Catalunya
Rodellar, Jose	Tech. Univ. of Catalonia
17:00-17:20	FrC04.4
<i>Output Feedback Adaptive Twist Control: A Lyapunov Design.</i>	
Kochalummoottil, Jose	Univ. of Alabama, Huntsville
Shtessel, Yuri B.	Univ. of Alabama at Huntsville
Moreno, Jaime A.	Univ. Nacional Autonoma de Mexico-UNAM
Fridman, Leonid M.	National Autonomous Univ. of Mexico
17:40-18:00	FrC05.6
<i>Multiple Model Adaptive Wave Filtering for Dynamic Positioning of Marine Vessels.</i>	
Hassani, Vahid	Tech. Univ. of Lisbon
Sorensen, Asgeir Johan	Norwegian Univ. of Sci and Tech.
Pascoal, Antonio Manuel	Inst. Superior Tecnico
Aguiar, A. Pedro	Inst. Superior Tecnico, Tech. Univ. of Lisbon
17:20-17:40	FrC06.5
<i>Network Realizability for Interconnected Systems Over Arbitrary One-Step Delay Networks.</i>	
Andalam, Satya Mohan Vamsi	Iowa State Univ.
Elia, Nicola	Iowa State Univ.
16:40-17:00	FrC07.3
<i>Initial Investigations of Hand-Motion Crane Control with Double-Pendulum Payloads.</i>	
Peng, Kelvin Chen Chih	Georgia Inst. of Tech.
Singhose, William	Georgia Inst. of Tech.
Gurleyuk, Sirri Sunay	Zonguldak Karaelmas Univ.
17:00-17:20	FrC08.4
<i>Optimal Controller Synthesis for the Decentralized Two-Player Problem with Output Feedback.</i>	
Lessard, Laurent	Lund Univ.
Lall, Sanjay	Stanford Univ.
16:40-17:00	FrC10.3
<i>Extending Small Gain and Passivity Theory for Large-Scale System Interconnections.</i>	
Griggs, Wynita M.	National Univ. of Ireland, Maynooth
Sajja, Surya Shravan Kumar	NUI Maynooth
Anderson, Brian D.O.	Australian National Univ.
Shorten, Robert	Nat. Univ. of Ireland
17:00-17:20	FrC11.4
<i>Dynamic Neural Network-Based Global Output Feedback Tracking Control for Uncertain Second-Order Nonlinear Systems.</i>	
Dinh, Huyen T.	Univ. of Florida
Bhasin, Shubhendu	Indian Inst. of Tech.
Kim, Dohee	Univ. of Florida
Dixon, Warren E.	Univ. of Florida

17:20-17:40	FrC12.5
<i>Steady-State and Stability Analysis of a Population Balance Based Nonlinear Ice Cream Crystallization Model.</i>	
Casenave, Céline	INRA-INRIA MODEMIC Res. Team
Dochain, Denis	Univ. Catholique de Louvain
Alvarez, Graciela	CEMAGREF, 1 rue Pierre-Gilles de Gennes, Antony, 92160, France
Benkhelifa, Hayat	AgroParisTech, UMR n°1145 Ingenierie-Procedes-Aliments,
Flick, Denis	AgroParisTech, UMR n°1145 Ingenierie-Procedes-Aliments, 16 rue
Leducq, Denis	CEMAGREF, 1 rue Pierre-Gilles de Gennes, Antony, 92160, France
16:40-17:00	FrC13.3
<i>Decentralized Model-Based Event-Triggered Control of Networked Systems.</i>	
Garcia, Eloy	Univ. of Notre Dame
Antsaklis, Panos J.	Univ. of Notre Dame
16:00-16:20	FrC14.1
<i>Coupled Longitudinal and Lateral Control Strategy Improving Lateral Stability for Autonomous Vehicle.</i>	
Attia, Rachid	Univ. de Haute-Alsace
Orjuela, Rodolfo	Univ. Haute-Alsace, UHA
Basset, Michel	Univ. de Haute-Alsace
16:40-17:00	FrC15.3
<i>Reducing Idling at Red Lights Based on Probabilistic Prediction of Traffic Signal Timings (I).</i>	
Mahler, Grant	Clemson Univ.
Vahidi, Ardalan	Clemson Univ.
16:00-16:20	FrC16.1
<i>Anti-Windup Scheme for Current Control of Shunt Active Filters.</i>	
Tilli, Andrea	Univ. of Bologna
Conficoni, Christian	Alma Mater Studiorum, Univ. of Bologna
17:40-18:00	FrC18.6
<i>Undamped Nonlinear Consensus Using Integral Lyapunov Functions.</i>	
Andreasson, Martin	KTH Royal Inst. of Tech.
Dimarogonas, Dimos V.	Royal Inst. of Tech.
Johansson, Karl H.	Royal Inst. of Tech.
17:00-17:20	FrC19.4
<i>Active Fault Isolation of Nonlinear Systems.</i>	
Du, Miao	McMaster Univ.
Mhaskar, Prashant	McMaster Univ.
17:20-17:40	FrC20.5
<i>Forward-Integration Riccati-Based Output-Feedback Control of Linear Time-Varying Systems.</i>	
Weiss, Avishai	Univ. of Michigan
Kolmanovsky, Ilya V.	The Univ. of Michigan
Bernstein, Dennis S.	Univ. of Michigan
16:00-16:20	FrC21.1
<i>Robust Nonlinear Generalised Minimum Variance Control.</i>	
Hur, Sung-ho	Univ. of Strathclyde
Grimble, Michael John	Univ. of Strathclyde
17:00-17:20	FrC22.4
<i>An Augmented Observer for the Distributed Estimation Problem for LTI Systems.</i>	
Park, Shinkyu	Univ. of Maryland Coll. Park
Martins, Nuno C.	Univ. of Maryland