

Proceedings of the ASME

DYNAMIC SYSTEMS AND CONTROL CONFERENCE

- 2020 -

VOLUME 1

ADAPTIVE/INTELLIGENT SYS. CONTROL
DRIVER ASSISTANCE/AUTONOMOUS TECH.
CONTROL DESIGN METHODS
NONLINEAR CONTROL
ROBOTICS
ASSISTIVE/REHABILITATION DEVICES
BIOMEDICAL/NEURAL SYSTEMS
BUILDING ENERGY SYSTEMS
CONNECTED VEHICLE SYSTEMS
CONTROL/ESTIMATION OF ENERGY SYSTEMS
CONTROL APPS.
SMART BUILDINGS/MICROGRIDS
EDUCATION
HUMAN-ROBOT SYSTEMS
SOFT MECHATRONICS/ROBOTIC COMPONENTS/SYSTEMS
ENERGY/POWER SYSTEMS
ENERGY STORAGE
ESTIMATION/IDENTIFICATION
VEHICLE EFFICIENCY/EMISSIONS

presented at

ASME 2020 DYNAMIC SYSTEMS AND CONTROL CONFERENCE

OCTOBER 5-7, 2020

ONLINE

sponsored by

DYNAMICS SYSTEMS AND CONTROL DIVISION, ASME

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Two Park Avenue * New York, NY. 10016

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Statement from By-Laws: The Society shall not be responsible for statements or opinions
Advanced in papers. . .or printed in its publications (7.1.3)

INFORMATION CONTAINED IN THIS WORK HAS BEEN OBTAINED BY ASME FROM SOURCES BELIEVED TO BE RELIABLE. HOWEVER, NEITHER ASME NOR ITS AUTHORS OR EDITORS GUARANTEE THE ACCURACY OR COMPLETENESS OF ANY INFORMATION PUBLISHED IN THIS WORK. NEITHER ASME NOR ITS AUTHORS AND EDITORS SHALL BE RESPONSIBLE FOR ANY ERRORS, OMISSIONS, OR DAMAGES ARISING OUT OF THE USE OF THIS INFORMATION. THE WORK IS PUBLISHED WITH THE UNDERSTANDING THAT ASME AND ITS AUTHORS AND EDITORS ARE SUPPLYING INFORMATION BUT ARE NOT ATTEMPTING TO RENDER ENGINEERING OR OTHER PROFESSIONAL SERVICES. IF SUCH ENGINEERING OR PROFESSIONAL SERVICES ARE REQUIRED, THE ASSISTANCE OF AN APPROPRIATE PROFESSIONAL SHOULD BE SOUGHT.

For authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act, contact the Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923, Tel: 978-750-8400

Requests for special permission or bulk reproduction should be addressed to permissions@asme.org.

ISBN NO. 978-0-7918-8427-0

© 2020 ASME

All rights reserved.

Printed in U.S.A with permission by Curran Associates, Inc. (2021)

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

CONTENTS

DSCC2020

ADAPTIVE AND INTELLIGENT SYSTEMS CONTROL

DSCC2020-3111	V001T01A001
Further Results on Performance Guarantees in Adaptive Control of Uncertain Systems With Unmodeled Dynamics <i>K. Merve Dogan, Tansel Yucelen, Jonathan A. Muse</i>	
DSCC2020-3112	V001T01A002
A Novel Intelligent Learning Control Scheme for Discrete-Time Nonlinear Uncertain Systems in Multiple Environments <i>Jingting Zhang, Chengzhi Yuan, Paolo Stegagno</i>	
DSCC2020-3117	V001T01A003
Decentralized Iterative Learning Cooperative Impedance Control for a Team of Robot Manipulators <i>Xu Jin</i>	
DSCC2020-3211	V001T01A004
Position and Attitude Control of Underactuated Drones Using the Adaptive Function Approximation Technique <i>Azin Shamshirgaran, Donald Ebeigbe, Dan Simon</i>	

ADVANCED DRIVER ASSISTANCE AND AUTONOMOUS TECHNOLOGIES

DSCC2020-3113	V001T02A001
Real-Time Driver Model Parameter Identification: An Algebraic Approach <i>Zejiang Wang, Junmin Wang</i>	
DSCC2020-3115	V001T02A002
A Lateral Motion Planning Method for Automated Vehicles Based on Sinusoids <i>Wei Wang, Zejiang Wang, Xinbo Chen, Junmin Wang</i>	
DSCC2020-3122	V001T02A003
Inverse Reinforcement Learning Based Driver Behavior Analysis and Fuel Economy Assessment <i>Mehmet Fatih Ozkan, Yao Ma</i>	
DSCC2020-3141	V001T02A004
The Effects of Trailer Towing on the Dynamics of a Lane-Keeping Controller <i>Illes Voros, Denes Takacs</i>	

DSCC2020-3253..... **V001T02A005**
Minimum Safety Distances for Emergency Braking Maneuvers in Car-Following Applications
Devin Schafer, Pinggen Chen

DSCC2020-3286..... **V001T02A006**
Control Design for Automated Vehicle Emergency Safe Stop System Based on Differential Dynamic Programming
Lisheng Yang, Tomonari Furukawa, Lei Zuo, Zachary Doerzaph

ADVANCES IN CONTROL DESIGN METHODS

DSCC2020-3191..... **V001T03A001**
Iterative Learning Control for Hybrid Systems
Kirti D. Mishra, K. Srinivasan

DSCC2020-3221..... **V001T03A002**
Error Dynamics Design via a Repetitive Loop for UDE-Based Robust Control to Reject Periodic Disturbances
Yeqin Wang, Yiting Dong, Jiguo Dai, Beibei Ren, Qing-Chang Zhong

DSCC2020-3260..... **V001T03A003**
Application of MIMO Data Driven Feedback Control Design to Dual Stage Hard Disk Drives
Prateek Shah, Zhi Chen, Roberto Horowitz

DSCC2020-3267..... **V001T03A004**
Robust Iterative Learning Control for Interval Linear Systems
Kirti D. Mishra, K. Srinivasan

DSCC2020-3327..... **V001T03A005**
PD Controller With Self Adaptive Gains for Quadrotor Waypoint Navigation
Madhavan Sudakar, Siddharth Sridhar, Manish Kumar

DSCC2020-3331..... **V001T03A006**
Output-Feedback Linear Parameter Varying Control of Permanent Magnet Synchronous Motors
Jaecheol Lee, Shahin Tasoujian, Karolos Grigoriadis, Matthew Franchek

ADVANCES IN NONLINEAR CONTROL

DSCC2020-3114..... **V001T04A001**
Experimental and Analytical Nonzero-Sum Differential Game-Based Control of a 7-DOF Robotic Manipulator
Mostafa Bagheri, Alexander Bertino, Peiman Naseradinmousavi

DSCC2020-3144..... **V001T04A002**
New Stability Analysis and Design of Discrete Time Delay Control for Nonaffine
Nonlinear Systems
Suresh B. Reddy

DSCC2020-3149..... **V001T04A003**
New Analysis/Design of Generalized Discrete PI Controller via Discrete Time Delay
Control for Nonlinear Systems
Suresh B. Reddy

DSCC2020-3151..... **V001T04A004**
Nonlinear Zero-Dynamics Attacks Targeting Nuclear Power Plants
Jacob A. Farber, Daniel G. Cole

DSCC2020-3263..... **V001T04A005**
Multiple Sliding Surface Controller for a Quadrotor for Improved Robustness Against
Wind Disturbances
Madhavan Sudakar, Siddharth Sridhar, Manish Kumar

DSCC2020-3271..... **V001T04A006**
Constrained Control of Input Delayed Systems With Partially Compensated Input
Delays
Imoleayo Abel, Mrdjan Jankovic, Miroslav Krstic

ADVANCES IN ROBOTICS

DSCC2020-3156..... **V001T05A001**
Navigation and Obstacle Avoidance of Snake-Robot Guided by a Co-Robot UAV
Visual Servoing
Mahdi Haghshenas-Jaryani, Hakki Erhan Sevil, Liang Sun

DSCC2020-3158..... **V001T05A002**
Modelica-Based Control of a Delta Robot
Ahmed Okasha, Scott A. Bortoff

DSCC2020-3163..... **V001T05A003**
Steerable Needle Trajectory Following in the Lung: Torsional Deadband
Compensation and Full Pose Estimation With 5DOF Feedback for Needles Passing
Through Flexible Endoscopes
*Tayfun Efe Ertop, Maxwell Emerson, Margaret Rox, Josephine Granna, Robert Webster,
Fabien Maldonado, Erin Gillaspie, Michael Lester, Alan Kuntz, Caleb Rucker, Mengyu Fu,
Janine Hoelscher, Inbar Fried, Ron Alterovitz*

DSCC2020-3181..... **V001T05A004**
Experimental and Analytical Decentralized Adaptive Control of a 7-DOF Robot
Manipulator
Alexander Bertino, Peiman Naseradinmousavi, Atul Kelkar

DSCC2020-3183	V001T05A005
Marker Based Row Alignment Control for an Agricultural Scouting Robot <i>Qiang Li, Xiangling Kong, Yunjun Xu</i>	
DSCC2020-3200	V001T05A006
Energy-Optimal, Direct-Phase Control of Brushless Motors for Robotic Drives <i>Amin Ghorbanpour, Hanz Richter</i>	
DSCC2020-3234	V001T05A007
Prioritized Foraging Strategies for an Ant Colony-Inspired Swarm System <i>Hari R. Iyer, Manish Kumar, Subramanian Ramakrishnan</i>	
DSCC2020-3256	V001T05A008
Maximum Correntropy Kalman Filter for Orientation Estimation With Application to LiDAR Inertial Odometry <i>Seyed Fakoorian, Matteo Palieri, Angel Santamaria-Navarro, Cataldo Guaragnella, Dan Simon, Ali-akbar Agha-mohammadi</i>	
DSCC2020-3278	V001T05A009
Design of a Parallel Elastic Hopper With a Wrapping Cam Mechanism and Template Based Virtually Tunable Damping Control <i>Sinan Sahin Candan, Osman Kaan Karagoz, Yigit Yazicioglu, Uluc Saranli</i>	
DSCC2020-3279	V001T05A010
Visual Navigation of Wheeled Mobile Robots Using Deep Reinforcement Learning: Simulation to Real-Time Implementation <i>Ezebuugo Nwaonumah, Biswanath Samanta</i>	
DSCC2020-3282	V001T05A011
Sensing and Classification of Ambient Vortex Wake From the Kinematics of a Bioinspired Swimming Robot Using Neural Networks <i>Beau Pollard, Phanindra Tallapragada</i>	
DSCC2020-3291	V001T05A012
Cooperation and Null-Space Control of Networked Omni-Directional Mobile Manipulators <i>Michael John Chua, Yen-Chen Liu</i>	
DSCC2020-3305	V001T05A013
Distributed Particle Filter With Online Model Learning for Localization Using Time- Difference-of-Arrival (TDOA) Measurements <i>Chandler J. Panetta, Osama N. Ennasr, Xiaobo Tan</i>	
DSCC2020-3314	V001T05A014
Receding Horizon Control for a 2D Point-Mass Hopping Model Navigating on Terrain With Stepping Stones and Stairs <i>Ali Zamani, Pranav A. Bhounsule</i>	

ASSISTIVE AND REHABILITATION DEVICES DESIGN, MODELING, ANALYSIS, AND CONTROL (INVITED SESSION)

DSCC2020-3216..... **V001T06A001**

Effect of Additional Weight on Human Squat Exercise Stability: Ground Reaction Forces and Centers of Pressure

Jose Galarza, Dumitru I. Caruntu

DSCC2020-3247..... **V001T06A002**

Inverse Kinematic Analysis of Muscular Hydrostat Inspired Soft Robot With Chain-Like Optimization With an Embedded Controller

Amir Hosein Zamanian, Edmond Richer

BIOMEDICAL AND NEURAL SYSTEMS

DSCC2020-3127..... **V001T08A001**

Modeling Analysis of the Wrist Dynamics via an Ellipsoidal Joint

Jiamin Wang, Sunit K. Gupta, Oumar Barry

DSCC2020-3128..... **V001T08A002**

On a Gamified Brain-Computer Interface for Cognitive Training of Spatial Working Memory

Ziming Liu, Jonathan Bryan, Robert Borkoski, Fengpei Yuan, Yansong Li, Xiaopeng Zhao

DSCC2020-3129..... **V001T08A003**

A Cellular Automata Model for Dynamics and Control of Cardiac Arrhythmias

Danny Gallenberger, Min Xiong, Tony Z. Zhuang, Kai Sun, Elena G. Tolkacheva, Xiaopeng Zhao

DSCC2020-3269..... **V001T08A004**

Optimal Realization of Endpoint Stiffness in Static Human Arm Postures

Kamran Iqbal

BUILDING ENERGY SYSTEMS (INVITED SESSION)

DSCC2020-3118..... **V001T09A001**

Cutting the Deployment Costs of Physics-Based MPC in Buildings by Simulation-Based Imitation Learning

Jan Drgona, Lieve Helsen, Draguna L. Vrabie

DSCC2020-3184..... **V001T09A002**

Parametric Modeling and Optimal Control of a Combined Heating and Power System With Energy Storage

Claudia Lucia De Pascalis, Stephanie Stockar

DSCC2020-3229..... **V001T09A003**

Achieving Improved Personalization and Energy Efficiency in Cohabited Work-Spaces Through Data-Driven Predictive Control

Syed Ahsan Raza Naqvi, Zachary Nawrocki, Zaid Bin Tariq, Koushik Kar, Sandipan Mishra

CONNECTED VEHICLE SYSTEMS (INVITED SESSION)

- DSCC2020-3150**..... **V001T10A001**
State-Constrained Optimal Solutions for Safe Eco-Approach and Departure at
Signalized Intersections
Jihun Han, Dominik Karbowski, Aymeric Rousseau
- DSCC2020-3173**..... **V001T10A002**
High-Fidelity Teleoperated Scaled Vehicles for Research and Development of
Intelligent Transportation Technologies
*Cong Wang, Bohan Wang, Leidi Zhao, Carlos Maranon, Nishaant Goswamy, Jo Young Lee,
Gulling Wang*
- DSCC2020-3201**..... **V001T10A003**
Multi-Car Convex Feasible Set Algorithm in Trajectory Planning
Jing Huang, Changliu Liu
- DSCC2020-3250**..... **V001T10A004**
Benchmarking Fuel Economy of Connected and Automated Vehicles in Real World
Driving Conditions via Monte Carlo Simulation
*Shreshtha Rajakumar Deshpande, Shobhit Gupta, Dennis Kibalama, Nicola Pivaro, Marcello
Canova*
- DSCC2020-3335**..... **V001T10A005**
Safe Decision and Control of Connected Automated Vehicles for an Unprotected Left
Turn
Sanghoon Oh, Linjun Zhang, Eric Tseng, Wayne Williams, Helen Kourous, Gabor Orosz

CONTROL AND ESTIMATION OF ENERGY SYSTEMS (INVITED SESSION)

- DSCC2020-3175**..... **V001T11A001**
Multi-Level Hierarchical Estimation for Thermal Management Systems of Electrified
Vehicles
Pamela J. Tannous, Andrew G. Alleyne
- DSCC2020-3190**..... **V001T11A002**
Hierarchical Multi-Timescale Energy Management for Hybrid-Electric Aircraft
Wenqing Wang, Justin P. Koeln
- DSCC2020-3203**..... **V001T11A003**
Nonlinear Hierarchical MPC for Maximizing Aircraft Thermal Endurance
Daniel D. Leister, Justin P. Koeln
- DSCC2020-3233**..... **V001T11A004**
Graph-Based Design and Control Optimization of a Hybrid Electrical Energy Storage
System
Cary Laird, Donald Docimo, Christopher T. Aksland, Andrew G. Alleyne

CONTROL APPLICATIONS

DSCC2020-3138..... **V001T12A001**
Motion Planning for Autonomous Driving With Extended Constrained Iterative LQR
Yutaka Shimizu, Wei Zhan, Liting Sun, Jianyu Chen, Shinpei Kato, Masayoshi Tomizuka

DSCC2020-3329..... **V001T12A002**
A Novel Approach to Time Series Forecasting Using Model-Free Adaptive Control Framework
Meenakshi Narayan, Ann Majewicz Fey

CONTROL OF SMART BUILDINGS AND MICROGRIDS

DSCC2020-3252..... **V001T13A001**
Development and Implementation of a New Optimal Supplemental Lighting Control Strategy in Greenhouses
Sahand Mosharafian, Shirin Afzali, Javad Mohammadpour Velni, Marc W. van Iersel

DESIGN MODELING ANALYSIS AND CONTROL OF ASSISTIVE AND REHABILITATION DEVICES

DSCC2020-3170..... **V001T14A001**
Dynamic Locomotion of a Lower-Limb Exoskeleton Through Virtual Constraints Based ZMP Regulation
Victor Paredes, Ayonga Hereid

DSCC2020-3196..... **V001T14A002**
An Ultrasound Imaging Based Observer for Estimating NMES-Induced Muscle Fatigue: Theory and Simulation
Zhiyu Sheng, Kang Kim, Nitin Sharma

DSCC2020-3225..... **V001T14A003**
Sampled-Data Observer Based Dynamic Surface Control of Delayed Neuromuscular Functional Electrical Stimulation
Qiang Zhang, Ashwin Iyer, Ziyue Sun, Albert Dodson, Nitin Sharma

DRIVER ASSISTANCE AND AUTONOMOUS TECHNOLOGIES (INVITED SESSION)

DSCC2020-3174..... **V001T15A001**
Combined Trajectory Planning and Tracking for Autonomous Vehicles on Deformable Terrains
James Dallas, Yifan Weng, Tulga Ersal

DSCC2020-3293..... **V001T15A002**
Switched Control Barrier Function With Applications to Vehicle Safety Control
Yiwen Huang, Yan Chen

DYNAMIC SYSTEMS AND CONTROL EDUCATION

DSCC2020-3104..... **V001T16A001**

Numerical Simulation of Dynamic Bending Deflection of a Disc Cam Profile With Roller Follower System

Louay S. Yousuf, Yaakob K. H. Dabool

DSCC2020-3140..... **V001T16A002**

The Swirling Pendulum: Conceptualization, Modeling, Equilibria and Control Synthesis

Sujay D. Kadam, Utsav Shah, Alrick D'Souza, Prajwal Gowdru Shanthamurthy, Nidhish Raj, Ravi N. Banavar, Harish J. Palanthandalam-Madapusi

DSCC2020-3334..... **V001T16A003**

An Integrated Hardware and Software Platform for Control of Automatic Ground Vehicles

Jian Chu, Soovadeep Bakshi, Hansen Qin, Zeyu Yan, Dongmei Chen

DYNAMICS AND CONTROL OF HUMAN-ROBOT SYSTEMS

DSCC2020-3125..... **V001T17A001**

Adaptive Trajectory Tracking During Motorized and FES-Induced Biceps Curls via Integral Concurrent Learning

Brendon C. Allen, Kimberly J. Stubbs, Warren E. Dixon

DSCC2020-3131..... **V001T17A002**

Teleoperated Motorized Functional Electric Stimulation Actuated Rehabilitative Cycling

Kimberly J. Stubbs, Brendon C. Allen, Warren E. Dixon

DSCC2020-3177..... **V001T17A003**

Galvanic Skin Response As a Measure of Engagement During Play in Virtual Reality

Roni Barak Ventura, Maurizio Porfiri

DSCC2020-3296..... **V001T17A004**

Adaptive Impedance Control for the Haptic Shared Driving Task Based on Nonlinear MPC

Vahid Izadi, Amir H. Ghasemi

DSCC2020-3311..... **V001T17A005**

Motorized and Functional Electrical Stimulation Induced Cycling via Switched Adaptive Concurrent Learning Control

Jonathan Casas, Chen-Hao Chang, Victor H. Duenas

DSCC2020-3313..... **V001T17A006**

Towards Explainable Co-Robots: Developing Confidence-Based Shared Control Paradigms

Daniel Saraphis, Vahid Izadi, Amirhossein Ghasemi

DYNAMICS AND CONTROL OF SOFT MECHATRONICS AND ROBOTIC COMPONENTS AND SYSTEMS

- DSCC2020-3198**..... **V001T18A001**
Development of Wire Actuated Monolithic Soft Gripper Positioned by Robot Manipulator
Rafael Barreto Gutierrez, Martin Garcia, Joan McDuffie, Courtney Long, Ayse Tekes
- DSCC2020-3204**..... **V001T18A002**
Design and Analysis of a New Mechanism for a Snake Like Robot
Johnathon Garcia, Kooktae Lee
- DSCC2020-3259**..... **V001T18A003**
Monolithic Leg Design With Compliant Knee Joint for Bipedal Robots: Design and Preliminary Results
Ciaphus Rouse, Trevor Warnix, Martin Garcia, Ayse Tekes

ENERGY AND POWER SYSTEMS

- DSCC2020-3110**..... **V001T19A001**
Model Predictive Control for a Synchronous Machine With a Pulsed, Constant-Power Load
Adam Parry, Brandon Hencey, Jon Zumberge
- DSCC2020-3145**..... **V001T19A002**
Adaptive Equivalent Factors of Multi-Objective Energy Management for Fuel Cell Hybrid Electric Vehicles
Yan Ma, Jian Chen, Junmin Wang
- DSCC2020-3146**..... **V001T19A003**
Observer Design for the Series Interconnection of Li-Ion Battery Cells Subject to Reduced Voltage Information
Luis D. Couto, Silvano Schons, Daniel Coutinho, Michel Kinnaert
- DSCC2020-3182**..... **V001T19A004**
Optimal Control and Energy Management in Hybrid Turbojet Engines
Hanz Richter, Joseph W. Connolly, Donald L. Simon

ENERGY STORAGE SYSTEMS (INVITED SESSION)

- DSCC2020-3124**..... **V001T20A001**
Temperature Sensor Deployment for Scalable Battery Packs
Mengzhu Gao, Qingzhi Lai, Xinfan Lin
- DSCC2020-3180**..... **V001T20A002**
Combining Non-Parametric and Parametric Models for Stable and Computationally Efficient Battery Health Estimation
Antti Aitio, David Howey

DSCC2020-3218..... **V001T20A003**
Estimation of Parameter Probability Distributions for Lithium-Ion Battery String Models
Using Bayesian Methods
Luis D. Couto, Dong Zhang, Antti Aitio, Scott Moura, David Howey

ESTIMATION AND IDENTIFICATION

DSCC2020-3159..... **V001T21A001**
Input Excitation Analysis for Black-Box Quadrotor Model System Identification
John Angarita, Daniel Doyle, Gustavo Gargioni, Jonathan Black

DSCC2020-3186..... **V001T21A002**
Modeling and Parameter Identification for Condition Monitoring of Surface-Mount
Permanent Magnet Machines Under Magnet Demagnetization
Fanny Pinto Delgado, Ziyu Song, Heath F. Hofmann, Jing Sun

DSCC2020-3210..... **V001T21A003**
An Online Transfer Learning Approach for Identification and Predictive Control Design
With Application to RCCI Engines
Yajie Bao, Javad Mohammadpour Velni, Mahdi Shahbakhti

DSCC2020-3230..... **V001T21A004**
Effect of Neural Network on Reduction of Noise for Edge Detection
Enqi Zhang, Diane L. Peters, James Z. Zhang

DSCC2020-3235..... **V001T21A005**
Bearing-Only Localization of a Quasi-Static Sound Source With a Binaural
Microphone Array
Aidan J. Bradley, Masoud J. Shirazi, Nicole Abaid

DSCC2020-3264..... **V001T21A006**
Mobile Sensing of Multi-Dimensional Dynamic Field via Compressed Sensing
Tianwei Li, Qingze Zou

DSCC2020-3287..... **V001T21A007**
Passivity-Based Disturbance Observer Design
Ying-Chun Chen, Craig Woolsey

DSCC2020-3312..... **V001T21A008**
Design, Modeling, and Identification of an Experimental Liquid-Level Control System:
Enabling Research in Fault Diagnosis
Hilina T. Workneh, Ioannis A. Raptis

IMPROVING VEHICLE EFFICIENCY AND REDUCING EMISSIONS (INVITED SESSION)

DSCC2020-3193..... **V001T22A001**
Suggestion-Based Fuel Efficient Control of Connected and Automated Vehicles
Tinu Vellamattathil Baby, Pouria Karimi Shahri, Amir H. Ghasemi, Baisravan HomChaudhuri

DSCC2020-3213..... **V001T22A002**
Computationally Efficient Urea-Dosing Controllers for Urea-SCR
Rajakumar Ganne, Kaushal K. Jain, Peter H. Meckl, Harshil Angre, Jagdish R. Hiremath