2 Metaheuristic Optimization for Backstepping Control and Inversion Based Control from EMR for an Electric Vehicle
Maude Blondin, University of Florida; Clement Depature, Pierre Sicard, Université du Québec à Trois-Rivières

3 Fuel Efficiency Optimization Methodologies for Series Hybrid Electric Vehicles
Boli Chen, Simos A. Evangelou, Imperial College London; Roberto Lot, Univerisity of Southampton

4 Intelliegnt Energy Management of Vehicular Solar Idle Reduction Systems with Reinforcement Learning
Seyed Mohammad Hosseini, Mehrdad Mastali Majdabadi, Nasser L. Azad, John Z. Wen, Arvind Kothandaraman Raghavan, University of Waterloo

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Tuesday, 28 August 2018 14:00-15:30 Room 4k
RT2-1: Power Electronics, Motor Drives and Electric Power Systems I
Chairs: Rakesh Ramachandran & Hicham Chaoui

1 Loss Minimization Using Variable DC-Link Voltage Technique for Permanent Magnet Synchronous Motor Traction System in Battery Electric Vehicle
Libo Lu, Ulm University; Gunther Götting, Robert Bosch GmbH; Jian Xie, Ulm University

2 Loss Modeling for SiC MOSFET Inverters
Gui-Jia Su, Oak Ridge National Lab

3 Silicon Carbide MOSFET Traction Inverter Operated in the Stockholm Metro System Demonstrating Customer Values
Martin Lindahl, KTH Bombardier Transportation; Hans-Peter Nee, KTH Royal Institute of Technology; Anders Blomberg, Bombardier Transportation; Erik Velander, KTH, Bombardier Transportation

4 Experimental verification of power density improvement in a GaN converter with the enhancement in layout
Rakesh Ramachandran, University of Southern Denmark

Tuesday, 28 August 2018 14:00-15:30 Room 4L
RT5: Modeling, Analysis and Simulation of Transportation Systems
Chairs: Giambattista Gruosso & Shayok Mukhopadhyay

1 Optimizing Fuel Consumption and Pollutant Emissions of a Spark Ignition Engine for Eco-driving Applications
Alice Guille des Buttes, Bruno Jeanneret, IFSTTAR; Alan Kéromnès, Université de Bourgogne; Serge Pelissier, IFSTTAR; Luis Le Moyne, DRIVE (Univ. Bourgogne Franche Comte)

2 Analytical Derivation of efficiency map of an Induction Machine for Electric Vehicle Applications
Kaibo Li, Harbin Institute of Technology

3 A Study on Economical Vehicle Platooning Strategy in Urban Driving Scenarios
Yao Ma, The University of Texas at Austin; Junmin Wang, University of Texas at Austin

4 Influence of Battery Charging Current Limit on the Design of Range Extender Hybrid Electric Trucks
Tong Zhao, Qadeer Ahmed, Giorgio Rizzoni, The Ohio State University

Tuesday, 28 August 2018 14:00-15:30 Room 4M
RT7: Hydrogen Refueling Infrastructures and Fuel Cell Vehicles
Chairs: Marie Cecile Pera & Javier Solano

1 Optimized Fuzzy Thermal Management of an Open Cathode Fuel Cell System
Mohsen Kandidayeni, Alvaro Omar Macias Fernandez, Université du Québec à Trois-Rivières; Loïc Boulon, Sousso Kelouwani, Université du Québec à Trois-Rivières

2 Ageing integration in PEMFC range extender model for on-board prognostic applications
Raffaele Petrone, FEMTO-st, Univ. Bourgogne Franche-Comte; Nadia Steiner, Daniel Hissel, University of Bourgogne Franche-Comté; Marie Cecile Pera, Univ. Bourgogne Franche-Comte; Noureddine Zerhouni, FEMTO-ST Institute, Univ. de Franche-Comté/CNRS/ENSMM; Samir Jemeï, University of Franche Comte; Stefan Hemmer, ElringKlinger AG; Ruud Bouwman, VDL-ETS

3 Sizing of fuel cell - ultracapacitors hybrid electric vehicles based on the energy management strategy
Javier Solano, Ricardo Domínguez, Andrés Jácome, Universidad Industrial de Santander

4 On The Design of a Hybrid Fuel Cell – Battery Genset for a Refrigerated Semi-Trailer Truck
Neigel Marx, Daniel Hissel, Elodie Pahon, University of Bourgogne Franche-Comté; Fabien Harel, IFSTTAR

Tuesday, 28 August 2018 16:00-17:30 Room 4K
RT1-2: Energy Storage and Generation, Components and Systems III
Chairs: Ricardo de Castro & Marcello Canova

1 Battery Pack Sizing Method - Case Study of an Electric Motorcycle
Félix-Antoine LeBel, Louis Pelletier, Pascal Messier, Université de Sherbrooke; Joao Pedro Trovao, University of Usherbrooke

2 Smart Balancing Control of a Hybrid Energy Storage System based on a Cell-to-Cell Shared Energy Transfer Configuration
Cláudio Pinto, FEUP; Ricardo de Castro, German Aerospace Center (DLR); Jorge Varela Barreras, Oxford University; Rui Esteves Araujo, University of Porto; David A. Howey, Oxford University

3 Using Pixel Array Method to Optimize Battery Remaining Useful Life Model
Jide Lu, Jean Andrian, Florida International University

4 Design of a High Performance Battery Pack as a Constraint Satisfaction Problem
Louis Pelletier, Félix-Antoine LeBel, Ruben Gonzlez-Rubio, Marc-André Roux, Université de Sherbrooke; Joao Pedro Trovao, University of Usherbrooke

Tuesday, 28 August 2018 16:00-17:30 Room 4L
RT3: Vehicular Electronics and Intelligent Transportation Systems
Chairs: Junmin Wang & Sean Brennan

1 The Security Issues of Modern In-Vehicle Networks
Wu Yan, Lifang Wang, Li Fang, Yanjie Guo, Institute of Electrical Engineering, Chinese Academy of Sciences

2 Slip Ratio Estimation for Traction Control of Electric Vehicles
Thanh Vo-Duy, Minh C. Ta, Hanoi University of Science and Technology

3 An examination of vehicle spacing to reduce aerodynamic drag in truck platoons
Vasudev Vohra, Mohamed Wahba, Sean Brennan, Rui Ni, Gökhan Akarslan, Pennsylvania State University

4 Fuel Economy and Naturalistic Driving for Passenger Road Vehicles
Xingda Yan, James Fleming, Roberto Lot, University of Southampton