

THE 20TH IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL TECHNOLOGY IEEE-ICIT 2019

13 - 15 FEBRUARY 2019, MELBOURNE CONVENTION AND EXHIBITION CENTRE,
MELBOURNE, AUSTRALIA

Special Session on

“State-of-the-art Automotive Technologies”

Organized by

Corresponding Organizer
Mohamed Awadallah
University of Technology Sydney
Mohamed.Awadallah@uts.edu.au
Mohamed.Awadallah@IEEE.org

Organizer
Kazuhiro Umetani
Okayama University
Umetani@okayama-u.ac.jp

Organizer
Paul D Walker
University of Technology Sydney
Paul.Walker@uts.edu.au

Mohammad Saad Alam
Aligarh Muslim University
Hybridvehicle@gmail.com

Call for Papers

Across most, if not all, areas of research in the automotive and broader transport areas the development of novel technologies develops at pace. This includes current research in new architectures/topologies and designs of vehicle systems, regenerative braking, Energy Storage Systems (ESSs), novel hybrid and electric vehicle topologies, and vehicle suspension and safety systems. This session will provide an opportunity for academics and professionals to present their latest research on new development in the automotive and transport sectors.

Topics of interest include, but are not limited to:

1. Modelling, control algorithms and strategies of vehicle systems.
2. Electric machine drive and modeling for vehicle propulsion.
3. Power electronics system and control for electric and hybrid vehicles.
4. Hardware-In-The-Loop Applications.
5. Storage Management Systems for Transportation Electrification.
6. Sustainable electro-mobility and energy systems, such as electrified vehicles, microgrid and smart grid.
7. Optimisation applications to vehicle systems.
8. Charging control and management.
9. Advances towards Environmental and Ecological Benefits.
10. Efficient powertrain management for hybrid electric vehicles.