



Programme

All times are expressed as
Central European Time (UTC + 1)

18 November 2020

- 09:00-09:20 **Opening Session**
Chair: Angelo Raciti - AEIT Automotive 2020 General Chair
Welcome Statements
Debora Stefani - AEIT General President
Angelo Raciti - AEIT Automotive 2020 General Chair
Authorities
- 09:20-10:00 **Keynote Speech 1**
"Hydrogen technologies for Automotive"
Marcello Baricco - Università di Torino
- 10:00-10:40 **Keynote Speech 2**
"STMicroelectronics SiC power technology: market, history and applications, high performance features and advantages of silicon carbide technology"
Antonio Imbruglia and Salvatore Cascino - STMicroelectronics
- 10:40-11:40 **Technical Session 1**
"Power Converters for Automotive Applications"
Chair: Giuseppe Gattavari - AEIT-AMES
- 11:40-13:00 **Technical Session 2**
"Advanced and Wide Band Gap device applications in automotive"
Chair: Vito Monopoli - Politecnico di Bari



- 14:30-15:30 **Technical Session 3**
"Silicon Carbide Automotive Applications"
 Chair: Salvatore Musumeci - Politecnico di Torino
- 15:30-16:15 **Technical Session 4**
"Charging systems for automotive applications"
 Chair: Roberto Petrella - Università di Udine
- 16:15-18:00 **Panel I**
"ECSEL for Automotive: Lighthouse projects"
 Chair: Livio Baldi - AEIT-AMES
- 18:00-19:00 **Technical Session 5**
"Modeling, simulations of power train structures"
 Chair: Alberto Tenconi - Politecnico di Torino
- 19 November 2020**
- 09:00-09:40 **Keynote Speech 3**
"Automotive Megatrends: Today's cars are shifting to new all-round mobility services"
 Alfio Russo, STMicroelectronics
- 09:50-10:30 **Keynote Speech 4**
"New challenges in SiC epitaxial growth and in processing for power devices and new applications"
 Francesco La Via, CNR-IMM
- 10:30-12:30 Virtual Room II
SiCE-2020
Session I "Materials"
 Chair: Fabrizio Roccaforte - CNR-IMM
- 11:00-13:00 Virtual Room I
Technical Session 6
"Thermal management and life-cycle of batteries"
 Chair: Alfonso Damiano - Università di Cagliari
- 14:30-15:30 Virtual Room I
Technical Session 7
"New Mobility enablers"
 Chairs: Pierpaolo Marchese (*), Andrea Penza (*)
 (*) AEIT-AICT
- 14:30-16:30 Virtual Room II
SiCE-2020
Session II "Devices and processing"
 Chair: Susanna Reggiani - Università di Bologna - IU.NET
- 15:30-17:00 Virtual Room I
Technical Session 8
"Smart Mobility in smart Cities"
 Chairs: Pierpaolo Marchese (*), Andrea Penza (*)
 (*) AEIT-AICT
- 16:30-18:30 Virtual Room II
SiCE-2020
Session III "Reliability and Applications"
 Chairs: Antonio Imbruglia (*), Angelo Messina (*)
 (*) STMicroelectronics
- 17:30-19:00 Virtual Room I
Panel II
"Automotive Hydrogen in Italy"
 Chair: Marcello Baricco
 Università di Torino,
 FCH JU - Fuel Cells and Hydrogen Joint Undertaking
 H2IT



20 November 2020

- 09:00-10:00 **Tutorial**
"Circuit solutions for improving power conversion efficiency through the use of wide bandgap technologies"
Filippo Di Giovanni - STMicroelectronics
- 10:00-11:00 **Technical Session 9**
"Advanced driver assistance systems and autonomous driving, safety and connectivity: environmental perception"
Chair: Francesco Braghin - Politecnico di Milano
- 11:00-12:00 **Technical Session 10**
"Advanced driver assistance systems and autonomous driving, safety and connectivity: user acceptance"
Chair: Martin Duncan - STMicroelectronics
- 12:00-13:00 **Technical Session 11**
"Advanced driver assistance systems and autonomous driving, safety and connectivity: motion planning"
Chair: Romeo Giuliano - Università di Roma "Guglielmo Marconi"
- 14:30-15:15 **Technical Session 12**
"Advanced driver assistance systems and autonomous driving, safety and connectivity: social impact"
Chair: Francesca Fallucchi - Università di Roma "Guglielmo Marconi"
- 15:15-16:15 **Technical Session 13**
"ICT for Advanced Driver Assistance Systems I"
Special Session
Chairs: Giovanni Cancellieri (*), Andrea Penza (^)
(*) Università Politecnica delle Marche
(^) AEIT-AICT
- 16:15-17:00 **Technical Session 14**
"ICT for Advanced Driver Assistance Systems II"
Special Session
Chairs: Franco Mazzenga (*), Andrea Penza (^)
(*) Università di Roma Tor Vergata
(^) AEIT-AICT
- 17:00-17:30 **Technical Session 15**
"Machine-Learning and Signal Processing Techniques for Electric Vehicle's Interaction and Management"
Special Session
Chair: Emanuele Principi - Università Politecnica delle Marche
- 17:30-18:30 **Technical Session 16**
"Technological Progresses and Innovations in Electric Vehicles Optimized for Extended Life, Improved Value and Increased Efficiency: the European Vision"
Special Session
Chair: Mariapia Martino - Politecnico di Torino
- 18:30-18:40 **Conference Closure**

A dedicated internet forum will be open for Discussion and Questions to Authors from 16 November until 27 November.

