

# Annual Conference of the IEEE Industrial Electronics Society (IECON 2021)

## Special Session on

### “Modeling, Management and Control of Energy Storage and Hybrid Energy Storage Systems for Transportation Electrification”

#### Organized by

Principal Organizer: Mario Porru, [mario.porru@unica.it](mailto:mario.porru@unica.it)  
Affiliation: University of Cagliari (Italy)

Organizer 2: Alexandre Ravey, [alexandre.ravey@utbm.fr](mailto:alexandre.ravey@utbm.fr)  
Affiliation: University of Technology of Belfort Montbeliard - UTBM (France)

Organizer 3: Matilde D’Arpino, [darpino.2@osu.edu](mailto:darpino.2@osu.edu)  
Affiliation: Ohio State University (USA)

Organizer 4: Roberta Di Fonso [roberta.difonso@graduate.univaq.it](mailto:roberta.difonso@graduate.univaq.it)  
Affiliation: University of L’Aquila (Italy)

Organizer 5: Hengzhao Yang ([hzyang@shanghaitech.edu.cn](mailto:hzyang@shanghaitech.edu.cn))  
Affiliation: ShanghaiTech University (China)

## Call for Papers

Transportation electrification is one of the most important energy revolutions and energy storage systems (ESSs) are a key technology for enabling the transition to a more sustainable transportation system. In particular, the optimal design and control of ESSs is a fundamental step for both full-and hybrid- electric propulsion systems to ensure mileage and vehicle performance while limiting weight penalty. The wide range of applications in which energy storage systems are employed, e.g., road, marine, rail, and aerospace, requires different features and properties, and advanced technological solutions.

This special section is dedicated to the most recent improvements for more affordable, reliable, and competitive ESSs. Special attention will be given to Hybrid Energy Storage Systems (HESSs), namely two or more energy storage technologies with complementary features coupled together in order to exploit their advantages and relieve their weaknesses at the same time.

Topics of interest include, but are not limited to:

- Road, marine, aerospace, and rail applications
- Management and control strategies for ESSs

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1 Good quality papers may be considered for publication in the IEEE Trans. on Industrial Electronics, subject to further rounds of review.

- Batteries, ultracapacitors, flywheels, superconducting energy storage systems, and fuel cells
- New storage technologies and/or new topologies/configurations of HESS
- Power electronics converters for energy storage systems
- Design and sizing of ESSs for full electric and hybrid electric propulsion systems

**Submissions Procedure:** All the instructions for paper submission are included in the conference website: <https://attend.ieee.org/iecon-2021/>

**Deadlines:**

Full paper submission:	June 25, 2021
Paper acceptance notification:	July 30, 2021
Camera-ready paper submission:	Aug. 27, 2021

**IEEE IES Technical Committee Sponsoring the Special Session:**

- Technical Committee on Energy Storage
- Technical Committee on Transportation Electrification