



# IEEE Transactions on Vehicular Technology

## Call for Papers for Special Section on “Next Generation Zero-Emission Vehicles”



*In Collaboration with IEEE-VPPC 2022*

The 2022 IEEE Vehicle Power and Propulsion Conference (VPPC22) was hosted by the University of California, Merced. This was the first time that the VPPC took place in California, USA. It was a timely visit. California recently announced that only zero-emission vehicles (ZEVs) will be allowed to be sold in the state by 2035. Other states and countries will surely follow. The VPPC, as one of the pioneer forums dedicated to electric mobility, is in a privileged position to create and disseminate knowledge that will help our communities transition toward sustainable transportation, improving air quality and reducing greenhouse emissions. To further promote excellence in ZEV research, we invite VPPC22&VPPC21 authors to submit an extended version of their manuscripts to this special section. Topics of interest include, but not limited to, the following:

- Modeling, analysis, and simulation of electric, hybrid, plug-in, and fuel-cell vehicles
- Energy storage and generation: batteries, fuel cells, supercapacitors, flywheels, solar, etc.
- Diagnosis, prognosis, battery and energy management
- Power electronics, energy conversion, electric machines and drives
- Charging systems, smart grid, V2X, fast charging, and wireless charging
- Vehicular electronics, connected and automated vehicles; intelligent transportation systems
- System engineering, testing, and life cycle analysis
- Applications to land vehicles (e.g., cars, trucks, railway, robotics), as well as sea, air and space vehicles

Only papers accepted and presented in the VPPC’22&VPPC’21 will be considered in this special section. The journal submission must offer substantive novel contributions beyond the conference paper, **requiring a mandatory extension of at least 50% of changes of content, and a new title.** The **conference paper must be uploaded** in attachment when the journal paper is submitted. During the submission, **authors must submit their paper to the “Special Section” and include the title of Special Section during paper registration.** The cover letter should mention specifically “VPPC Special Section”; and summarize the main difference and new contributions. The reviewing process of this special section will include just one round revision; authors are expected to submit high caliber papers in the initial submission. The submission deadline will not be extended.

### - Deadlines -

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| <b>Manuscript Submission Deadline:</b> | <b>April 15<sup>th</sup>, 2023</b>  |
| <b>First Decision:</b>                 | <b>June 15<sup>th</sup>, 2023</b>   |
| <b>Revised Paper Due</b>               | <b>August 15<sup>th</sup>, 2023</b> |
| <b>Final Decision:</b>                 | <b>October 1<sup>th</sup>, 2023</b> |
| <b>Estimated publication date:</b>     | <b>Last Quarter 2023</b>            |

### Manuscript Preparation and Submission

All manuscripts must follow the guidelines under “Information for Authors” in IEEE Transactions on Vehicular Technology at <https://vtsociety.org/publication/ieee-transactions-vehicular-technology>. Please submit your manuscript in electronic form through Manuscript Central website: <https://mc.manuscriptcentral.com/tvt-ieee>. On the submission page #1 in the popup menu for the manuscript type, select “Special Issue” and in the special issue topic write: “**Vehicle Power Propulsion Systems**”. For all inquiries regarding this special issue, please contact: [VPPC2022SI@gmail.com](mailto:VPPC2022SI@gmail.com).

### Guest Editors

**Ricardo de Castro**, University of California, Merced, USA  
**Scott Moura**, University of California, Berkeley, USA  
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