



*inventions*



an Open Access Journal by MDPI

## Revolutionizing Mobility: Unleashing the Power of Software-Defined Networking for Electric Vehicle Communication

Guest Editor:

**Dr. Stefano Rinaldi**

Department of Information  
Engineering, University of  
Brescia, 25123 Brescia, Italy

Deadline for manuscript  
submissions:

**30 June 2024**

### Message from the Guest Editor

In an era defined by environmental consciousness and technological innovation, vehicle electrification is rapidly transforming the transportation landscape. This Special Issue features contributions from leading researchers, industry experts, and practitioners at the forefront of the fields of electric vehicles and software-defined networking. By gathering cutting-edge technologies, models, inventions, and applications, and technological advancements, this Special Issue will highlight the path toward a sustainable and interconnected future of mobility. It aims to cover a wide range of topics, including, but not limited to, the following:

Interconnected smart charging;  
V2X communication;  
Software-defined networking for V2X;  
Fog and edge computing applied to V2X;  
Blockchain applications for V2X;  
Federated learning;  
Security and privacy challenges;  
Green communication for EV charging;  
Scalability and future prospects.



[mdpi.com/si/188217](https://mdpi.com/si/188217)

# Special Issue



an Open Access Journal by MDPI

## Editors-in-Chief

### **Prof. Dr. Chien-Hung Liu**

Department of Mechanical  
Engineering, National Chung  
Hsing University, 250 Kuo Kuang  
Rd., Taichung 402, Taiwan

### **Prof. Dr. Shoou-Jinn Chang**

Department of Electrical  
Engineering, National Cheng  
Kung University, Tainan 701,  
Taiwan

## Message from the Editorial Board

The unique journal *Inventions* is different from all other journals. Many scholars spend their lives publishing research papers in many different journals, but most of these journals do not help scholars collate and analyze their results or assist in promoting them to a relevant industry. However, *Inventions* will help authors not only to publish their papers in the journal, but also to promote their research results to industry and assist them in realizing the purpose of technology transfer. In the future, *Inventions* will help authors to evaluate their technology license fees based on the valuation theory and approaches and also help authors to show their patents and technologies on a network transaction platform.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.

**Journal Rank:** CiteScore - Q1 (*General Engineering*)

## Contact Us

---

*Inventions* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/inventions](http://mdpi.com/journal/inventions)  
[inventions@mdpi.com](mailto:inventions@mdpi.com)