

## Special Issue

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

### 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.

### Guest Editor

Dr. Stefano Rinaldi

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

### Deadline for manuscript submissions

25 December 2025



## Inventions

an Open Access Journal  
by MDPI

Impact Factor 1.9  
CiteScore 4.9



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

*Inventions*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[inventions@mdpi.com](mailto:inventions@mdpi.com)

[mdpi.com/journal/  
inventions](https://mdpi.com/journal/inventions)





# Inventions

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9  
CiteScore 4.9



[mdpi.com/journal/  
inventions](https://mdpi.com/journal/inventions)



## About the Journal

### 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.

---

### 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. Shouu-Jinn Chang

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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, Ei Compendex and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).