**The 7th International Conference on**

**Smart Vehicular Technology, Transportation, Communication and Applications**

**(VTCA 2025)**

November 21-23, 2025, Fuzhou, Fujian, China

**Special Session on**

**Artificial Intelligence Technology and Applications in Smart Vehicular Systems**

**Call for Papers**

**Session Organizers**

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**Session Description**

Artificial Intelligence (AI) is revolutionizing smart vehicular technology, transportation systems, and communication networks by enabling autonomous driving, intelligent traffic management, and seamless vehicle-to-everything (V2X) communication. This special session aims to bring together researchers, engineers, and industry experts to explore cutting-edge AI technologies and their applications in enhancing the safety, efficiency, and sustainability of transportation systems. The session will address innovative AI algorithms, real-world deployments, and challenges in integrating AI into vehicular and transportation ecosystems.

**Topics of Interest**

The session invites original research papers and case studies on topics including, but not limited to:

* AI for autonomous driving and advanced driver-assistance systems (ADAS)
* Machine learning for real-time traffic prediction and management
* Computer vision and sensor fusion for vehicle perception and navigation
* AI-enabled V2X communication for cooperative driving
* Reinforcement learning for vehicle control and path planning
* AI in smart city transportation and mobility-as-a-service (MaaS)
* Predictive maintenance and diagnostics using AI in vehicular systems
* AI-based safety and security in in vehicular systems
* AI for energy-efficient and sustainable transportation systems
* Cybersecurity and privacy in AI-based vehicular networks

**Submissions**

Papers should follow the template announced on the VTCA 2025 conference website and be submitted via email to session organizer Prof. Tien-Wen Sung at tienwen.sung@gmail.com.

**Conference Proceeding Information**

Papers that are presented orally at the conference and meet the publication requirements will be published in Springer's book series titled "Smart Innovation, Systems and Technology". Normally, this series will be indexed by Scopus and EI Compendex.

**Important Dates**

Paper submission deadline: **August 25, 2025**

Acceptance notification: **October 11, 2025**

Camera-ready copy and registration: **October 20, 2025**

If VTCA 2025 extends the above dates, please follow the dates announced on the official website.

**For more information**

Please visit the VTCA 2025 official websites <https://vtca2025.udd.ink/> or contact the session organizer Prof. Tien-Wen Sung (tienwen.sung@gmail.com)