

## Special Interest Group Request Form

**SIG Name: AI Empowered Internet of Vehicles**

**Proposed Chair:**

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**Proposed Vice-Chair(s):**

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**External LinkedIn Group web address**

Under construction

**Scope and Objectives (please provide up to 200 words):**

Objectives:

Internet of Vehicles (IoV) empower vehicles to communicate with the surrounding environment and remote servers, such as neighbouring cars, roadside infrastructure, and traffic control centers, cloud/edge computing servers, enabling a wide range of on-the-go services, including road safety, infotainment, and intelligent transportation. To better support IoV, various networks (terrestrial networks, aerial networks and satellite networks) and heterogeneous resources (communication, computing and storage) expects to be integrated to provide service to vehicles anywhere and anytime. In such a dynamic and complex scenario, many technical challenges arise, e.g, high mobility of vehicles, stringent of service requirements, multi-dimensional randomness, various dynamics, great heterogeneity, etc. Artificial intelligence (AI) has great potential to address these technical challenges and manage heterogeneous resources efficiently to meet different quality of service (QoS) requirements of IoV. This AIIOV SIG group aims to provide a platform for researchers and developers from both industry and academia to exchange ideas, discuss key technologies, and share latest results, to promote the development of AI empowered IoV.

**Proposed activities for the first 12 months:**

- Organize special issues on international journals
- Organize international workshops in conjunction with main stream IEEE conferences.
- Organize online seminars

**Founding Members (name/affiliation/email):**

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