



Applied Computational Intelligence and Soft Computing

Special Issue on **Computational Intelligence and Neuroscience in Smart Vehicles: Challenges and Solutions**

CALL FOR PAPERS

The ever increasing number of vehicles as well as increasing demands for smart vehicles has attracted a lot of research intentions from engineers, designers, scientists, and specialists. The smart vehicle combines advanced technologies, such as signal processing, communication, monitoring, learning, driver assistance, planning, and decision-making to solve some of the biggest challenges in transportation, including safety, mobility, fuel economy, and environment. This leads to a great desire for the development and utilization of computational intelligent and cognitive computing technologies to address these design challenges.

This special issue aims to gather innovative concepts and technological solutions from the broad research community, to present and discuss breakthrough in the latest developments in computational intelligence and neural science for applications to smart vehicles.

Potential topics include, but are not limited to:

- ▶ Big data compression and computational intelligence for vehicle analysis, diagnosis, and maintenance
- ▶ Computational intelligence and neuroscience in vehicular cloud
- ▶ Deep-learning and intelligent design for human-machine interfaces and smart vehicles
- ▶ Smart power management systems using computational intelligence and neuroscience
- ▶ Vision-based intelligent computing in environment perception, pattern recognition, and localization for unmanned vehicles
- ▶ Neuroscience-based multicriteria decision-making methods in intelligent vehicles
- ▶ Adaptive signal processing and artificial intelligence in communication, prediction, and control for autonomous, semiautonomous, and networked vehicles
- ▶ Human factors and cognitive science to guarantee vehicle and driver safety

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