

## Special Issue

# AI-Driven Automotive Advances: From Passenger Monitoring to Autonomous Navigation

### Message from the Guest Editors

The rapid rise of AI technologies has left an indelible mark on almost every industry, and the automotive domain is no exception. This Special Issue delves deep into the heart of AI-driven transformations that are redefining our vehicular experiences. Spanning the realms of real-time passenger monitoring to the futuristic aspirations of autonomous navigation, the range of topics illuminates the breadth and depth of AI's impact. This Special Issue will be dedicated to AI-driven automotive advances; subjects that will be discussed in this Special Issue will focus not only on modern methods, technologies, and cutting-edge innovations in the automotive industry and their applications but also on new approaches for vehicle and human safety on the road. Keywords

- smart/road safety
- passenger monitoring
- driver assistance
- next-gen heuristics for connected cars
- driver assistance systems
- autonomous driving technologies
- sensor fusion in passenger monitoring
- predictive analytics in driver assistance
- vehicle-to-everything communication
- advanced driver assistance systems
- AR and VR in driver assistance
- UX and experience in the automotive industry

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### Guest Editors

Prof. Dr. Jose M. Celaya-Padilla  
Prof. Dr. Huizilopoztli Luna García  
Dr. Hamurabi Gamboa-Rosales  
Dr. Antonio Martínez Torteya

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### Deadline for manuscript submissions

closed (20 August 2024)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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