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## Safety and Security of AI in Autonomous Driving

Guest Editors:

**Dr. Sohrab Mokhtari**

Department of Product  
Manufacturability, ArcelorMittal  
Global R&D, East Chicago, IN  
46312, USA

**Dr. Alireza Abbaspour**

Department of Automotive,  
Qualcomm Technologies Inc.,  
San Diego, CA, USA

Deadline for manuscript  
submissions:  
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### Message from the Guest Editors

Dear Colleagues,

Safety and security are significant enablers for self-driving vehicles and the future of transportation. Any security issues in these complex machines can lead to a safety-critical event, such as a life-threatening accident. As a result, there is an urgent need to develop algorithms and tools that can evaluate their system and security. Developing a safe and secure self-driving car requires extensive knowledge in a variety of aspects, including, but not limited to, safety, security, perception, localization, control, path planning, prediction, sensing, etc. Furthermore, the recent increase in the use of Artificial Intelligence (AI) in self-driving technologies opens up a broad field of research with tremendous progress in addressing the fundamental challenges of ensuring their safety and security.

For autonomous driving technologies, these topics include, but are not limited to, the following:

- Safety and security analysis of self-driving cars;
- Safe and secure path prediction and planning;
- Safe and secure localization;
- Safe and secure object detection and classification;
- Sensor spoofing detection and mitigations;
- Safe and secure machine learning.



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CISE—Electromechatronic  
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University of Beira Interior,  
Calçada Fonte do Lameiro, P-  
6201-001 Covilhã, Portugal

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There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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*Machines* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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