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Smooth Motion Planning for Autonomous Vehicles

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Deadline for manuscript submissions:
closed (30 April 2021)

Message from the Guest Editors

Dear Colleagues,

The purpose of this Special Issue is to present and discuss major research challenges, latest developments, and recent advances on smooth motion planning algorithms applied to autonomous vehicles: underwater or surface vehicles, unmanned ground and aerial vehicles, on/off road vehicles, etc. The Special Issue topics include but are not limited to the following:

- Novel path planning techniques for autonomous vehicles;
- Methods for smooth path and speed planning;
- Evolutionary algorithms for motion planning;
- Machine learning methods for motion planning;
- Motion planning via imitation learning;
- Methods combining smooth planning and control;
- Interplay between decision-making, behavior planning and motion planning;
- Human factors studies related to motion planning;
- Parallel computing for motion planning;
- Uncertainty management in motion planning;
- Motion planning applications.

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Guest Editors

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Message from the Editor-in-Chief

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