Special Issue

Advanced Motion Planning and Control in Aerospace Applications

Message from the Guest Editors

A key trait of an atmospheric or space flight vehicle is the ability to autonomously plan its own motion trajectory and track the trajectory afterwards in order to accomplish specified flight tasks via jointly applying motion planning and control algorithms. The motion planning and control technique with strong autonomy, high safety, and high accuracy is the key to ensuring the success of flight tasks. In aerospace applications, the flight vehicle is usually required to operate in a complex environment without any collision with obstacles, whilst complying with some underlying motion and physical constraints, such as actuator input saturation, sensor pointing constraints, linear/angular velocity constraints, etc.

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