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Path planning is fundamental and crucial for various kinds of robots, such as autonomous vehicles, multiple robots, or robot arms. It is crucial to generate a safe path without colliding with obstacles or other robots, in the case of path planning of multiple robots. Considering an aerial robot or underwater robot, a safe path must be planned considering the 3D environment. The complexity of path planning of a robot arm increases significantly as the number of degrees of freedom increases. Thus, safe paths must be generated for high-dimensional systems in a time-efficient manner. In practice, an obstacle may move and, thus, a robot's path must be replanned if necessary. Moreover, it is desirable to consider the dynamic model of a robot when generating a path for the robot. This Special Issue presents the recent research advances in these research topics.



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