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Cooperative planning control is an active topic of research, with many practical applications including multi-robot systems, transportation, multi-point surveillance and biological systems. The contributions of this thesis lie in the scope of three topics: formation control, time-constrained cooperative planning control and probabilistic control synthesis, all of the them in the framework of multi-agent systems.

Cooperative Planning Control and Formation

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Multi-agent planning and control is an active and increasingly studied topic of research, with many practical applications, such as rescue missions, security, surveillance, and transportation. More specifically, cases that involve complex manipulator-endowed systems deserve extra attention due to potential complex cooperative manipulation tasks and their interaction with the environment.

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