Special Issue

Cooperative Control for Multi-Agent Systems in Target Recognition and Localization

Message from the Guest Editor

In recent years, with the rapid developments of sensor technology, computer technology, intelligent information processing technology and control theories and methods, target recognition and localization in multi-agent systems (MASs) has become a hot topic due to its widespread practical application. In particular, some technologies that require global information are not applicable when the targets are in a communication-constrained environment. Regarding the aim to achieve accurate target recognition and location while making control behavior with the characteristics of low cost, high performance and flexibility, and strong anti-interference ability, the question of how to design more advanced distributed cooperative control methods for MASs has great significance in current theoretical research and practical applications. In addition, as the targets that need to be recognized and located have become faster and more hidden, and the space of recognition and localization has become larger, cooperative control for MASs in target recognition and localization has become more challenging to design and analyze.

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