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Cooperative Control of Distributed Multi-Agent Systems is organized into four main themes, or dimensions, of cooperative control: distributed control and computation, adversarial interactions, uncertain evolution and complexity management.

Cooperative Control of Distributed Multi-Agent Systems ...

Cooperative Control of Multi-Agent Systems: An Optimal and Robust Perspective reports and

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Encourages technology transfer in the field of cooperative control of multi-agent systems. The book deals with UGVs, UAVs, UUVs and spacecraft, and more. It presents an extended exposition of the authors' recent work on all aspects of multi-agent technology.

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Cooperative Control of Multi-Agent Systems - 1st Edition

Description. The paradigm of 'multi-agent' cooperative control is the challenge frontier for new control system application domains, and as a research area it has experienced a considerable increase in activity in recent years. This volume, the result of a UCLA collaborative project with Caltech, Cornell and MIT, presents cutting edge results in terms of the "dimensions" of cooperative control from leading researchers worldwide.

Cooperative Control of Distributed Multi-Agent Systems ...

Cooperative Control of Multi-Agent Systems: A Consensus Region Approach (Automation and Control Engineering Book 57) eBook: Li, Zhongkui, Duan, Zhisheng: Amazon.co.uk: Kindle Store

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Cooperative Control of Multi-Agent Systems: A Consensus Region Approach provides a novel approach to designing distributed cooperative protocols for multi-agent systems with complex dynamics. The proposed consensus region decouples the design of the feedback gain matrices of the cooperative protocols from the communication graph and serves as a measure for the robustness of the protocols to variations of the communication graph.

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This work considers the problem of learning cooperative policies in complex, partially observable domains without explicit communication. [...] Key Method. To effectively scale these algorithms beyond a trivial number of agents, we combine them with a multi-agent variant of curriculum learning. The algorithms are benchmarked on a suite of cooperative control tasks, including tasks with discrete and continuous actions, as well as tasks with dozens of cooperating agents.

[PDF] Cooperative Multi-agent Control Using Deep ...

error, and actor-critic methods to cooperative multi-agent systems. We introduce a set of cooperative control tasks that includes tasks with discrete and continuous actions, as well as tasks that involve hundreds of agents. The three approaches are evaluated against each other using different neural architectures, training procedures,

Cooperative Multi-Agent Control Using Deep Reinforcement ...

Cooperative control of linear multi-agent systems via distributed output regulation and transient synchronization ... His research focuses on distributed control of multi-agent systems and autonomous control of unmanned vehicles. Dr. Ren was a recipient of the National Science Foundation CAREER

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Award in 2008. He is currently an Associate Editor ...

Cooperative control of linear multi-agent systems via ...

In this paper, following our recent result on the cooperative output regulation of linear multi-agent systems by a distributed full information state feedback control, we further study the same problem by a distributed measurement output feedback control under certain detectability assumptions. As the problem can be viewed as an extension of the leader-following consensus problem of the linear multi-agent systems, our result contains some existing results on the multi-agent system control as ...

Cooperative output regulation of linear multi-agent ...

Distributed controller design is generally a challenging task, especially for multi-agent systems with complex dynamics, due to the interconnected effect of the agent dynamics, the interaction graph among agents, and the cooperative control laws. Cooperative Control of Multi-Agent Systems: A Consensus Region Approach offers a systematic ...

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Cooperative Control of Multi-Agent Systems: A Consensus Region Approach offers a systematic framework for designing distributed controllers for multi-agent systems with general linear agent...

Cooperative control of multi-agent systems: A consensus ...

Cooperative Control of Multi-Agent Systems extends optimal control and adaptive control design methods to multi-agent systems on communication graphs. It develops Riccati design techniques for general linear dynamics for cooperative state feedback design, cooperative observer design, and cooperative dynamic output feedback design.

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Cooperative Control of Multi-Agent Systems: A Consensus Region Approach provides a novel approach to designing distributed cooperative protocols for multi-agent systems with complex dynamics. The proposed consensus region decouples the design of the feedback gain matrices of the cooperative protocols from the communication graph and serves as a measure for the robustness of the protocols to ...

9781466569942: Cooperative Control of Multi-Agent Systems ...

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 Control of ...

A distributed stochastic optimal control solution is presented for cooperative multi-agent systems. The network of agents is partitioned into multiple factorial subsystems, each of which consists of a central agent and neighboring agents.

Cooperative Path Integral Control for Stochastic Multi ...

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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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