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computation,
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interactions, uncertain
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Description. The
paradigm of "multi-
agent" cooperative
control is the
challenge frontier for
new control system
application domains,

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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

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the problem of
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are evaluated against
each other using
different neural Co
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Cooperative control of
linear multi-agent
systems via

distributed output
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research focuses on
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multi-agent systems
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control of unmanned
vehicles. Dr. Ren was

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a recipient of the Multi
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Foundation CAREER
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In this paper,
following our recent
result on the
cooperative output

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regulation of linear
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by a distributed full
information state
feedback control, we
further study the
same problem by a
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under certain
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assumptions. As the
problem can be

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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 ...

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Cooperative planning
control is an active
topic of research, with
many practical
applications including
multi-robot systems,

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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 them in the framework of multi-agent

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...
A distributed
stochastic optimal
control solution is
presented for
cooperative multi-
agent systems. The
network of agents is
partitioned into

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multiple factorial Multi
subsystems, each of
Agent Systems
which consists of a
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central agent and
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Multi-agent planning
and control is an
active and
increasingly studied
topic of research, with
many practical

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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
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design. Both
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systems are treated.
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control is introduced
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systems with
unknown dynamics,
which are rarely

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treated in literature
are developed.
Results spanning
systems with first-,
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general high-order
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are presented. Each
control methodology
proposed is
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The text is self-contained and will serve as an excellent comprehensive source of information for researchers and graduate students working with multi-agent systems.

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agent systems with complex dynamics, due to the interconnected effect of the agent dynamics, the interaction graph among agents, and the cooperative control laws.

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Approach offers a systematic framework for designing distributed controllers for multi-agent systems with general linear agent dynamics, linear agent dynamics with uncertainties, and Lipschitz nonlinear agent dynamics. Beginning with an introduction to

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Control Of Multi

and graph theory, this
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design of the

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feedback gain Multi
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. By exploiting
the decoupling
feature, adaptive
cooperative protocols

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are presented that
can be designed and
implemented in a fully
distributed fashion.

Adaptive

This book presents a
concise introduction
to the latest advances
in robust cooperative
control design for
multi-agent systems
with input delay and
external disturbances,
especially from a

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Control means that multi-agent systems are able to achieve specified control tasks while remaining robust in the face of both parametric and nonparametric model uncertainties. In addition, the authors cover a wide range of key issues in cooperative control, such as

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input delays,
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Moving beyond the
scope of existing
works, a systematic
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to designing robust
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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

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the reader to assess
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material is relevant to
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application areas.
Their large-scale
spatial distribution,

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robustness, high
scalability and low
cost enable multi-
agent systems to
achieve tasks that
could not successfully
be performed by even
the most
sophisticated single
agent systems.

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Systems: Theory and
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a wide-ranging review of the latest developments in the cooperative control of multi-agent systems theory and applications. The applications described are mainly in the areas of unmanned aerial vehicles (UAVs) and unmanned ground vehicles (UGVs). Throughout,

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the authors link basic theory to multi-agent cooperative control practice – illustrated within the context of highly-realistic scenarios of high-level missions – without losing sight of the mathematical background needed to provide performance guarantees under

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interested in those
areas.

This monograph
presents new theories
and methods for fixed-
time cooperative
control of multi-agent
systems.

Fundamental
concepts of fixed-time
stability and
stabilization are

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introduced with
insightful
understanding. This
book presents
solutions for several
problems of fixed-time
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using systematic
design methods. The
book compares fixed-
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control with
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demonstrating how the former can achieve better closed-loop performance and disturbance rejection properties. It also discusses the differences from finite-time control, and shows how fixed-time cooperative control can produce the faster rate of convergence and

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and engineers alike.
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(MAS) are one of the
most exciting and the
fastest growing
domains in the
intelligent resource
management and
agent-oriented
technology, which
deals with modeling of
autonomous
decisions making

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entities. Recent developments have produced very encouraging results in the novel approach of handling multiplayer interactive systems. In particular, the multiagent system approach is adapted to model, control, manage or test the operations and management of

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Several system applications including multi-vehicles, microgrids, multi-robots, where agents represent individual entities in the network. Each participant is modeled as an autonomous participant with independent strategies and responses to

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outcomes. They are able to operate autonomously and interact pro-actively with their environment. In recent works, the problem of information consensus is addressed, where a team of vehicles communicate with each other to agree

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on key pieces of Multi
information that
enable them to work
together in a
coordinated fashion.

The problem is
challenging because
communication
channels have limited
range and there are
possibilities of fading
and dropout. The
book comprises
chapters on

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multiagent systems. It
shows that the joint
presentation of
synchronization and
consensus enables
readers to learn about
similarities and
differences of both
concepts. It reviews
the cooperative
control of multi-agent
dynamical systems

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interconnected by a
communication
network topology.

Using the terminology
of cooperative control,
each system is
endowed with its own
state variable and
dynamics. A
fundamental problem
in multi-agent
dynamical systems on
networks is the design
of distributed

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protocols that
guarantee consensus
or synchronization in
the sense that the
states of all the
systems reach the
same value. It is
evident from the
results that research
in multiagent systems
offer opportunities for
further developments
in theoretical,
simulation and

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Implementations. This book attempts to fill this gap and aims at presenting a comprehensive volume that documents theoretical aspects and practical applications.

This book presents a concise introduction to the latest advances in robust cooperative

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especially from a
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perspective. The
volume covers a wide
range of applications,
such as the trajectory
tracking of
quadrotors, formation
flying of multiple

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unmanned aerial
vehicles (UAVs) and
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fixed-time formation of
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ground vehicles.

Robust cooperative
Adaptive
control means that
Design
multi-agent systems
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are able to achieve
specified control tasks
And Control
while remaining
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robust in the face of
both parametric and
nonparametric model
uncertainties. In

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In addition, the authors cover a wide range of key issues in cooperative control, such as communication and input delays, parametric model uncertainties and external disturbances. Moving beyond the scope of existing works, a systematic prediction and

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observation approach
to designing robust
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laws is presented.

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