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main themes, or
dimensions, of
cooperative control:
distributed control
and computation,
adversarial
interactions,
uncertain evolution
and complexity
management.

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deals with UGVs,

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recent work on all
aspects of multi-
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Description. The

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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.

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result of a UCLA

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collaborative Multi
project with
Caltech, Cornell and
MIT, presents
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in terms of the
“ dimensions ” of
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distributed
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protocols for multi-

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matrices of the
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a measure for the
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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

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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

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with dozens of Multi
cooperating agents.

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critic methods to
cooperative multi-
agent systems. We
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cooperative control
tasks that includes
tasks with discrete

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and continuous
actions, as well as
tasks that involve
hundreds of agents.
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approaches are
evaluated against
each other using
different neural
architectures,
training procedures,

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systems via
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distributed output
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regulation and
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His research
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focuses on
Engineering
distributed control
of multi-agent
systems and

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autonomous control
of unmanned
vehicles. Dr. Ren
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systems via ...

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output feedback Multi
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-

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regulation of linear
multi-agent ...

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controller design is
generally a
challenging task,
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due to the

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effect of the agent
dynamics, the
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design methods to

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dynamics for
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observer design,
and cooperative
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an active topic of
research, with
many practical
applications

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Agent Systems
transportation, multi-
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and biological
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systems. The
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contributions of this
communications
thesis lie in the
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scope of three
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topics: formation
control, time-
constrained
cooperative
planning control and

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probabilistic control
synthesis, all of the
them in the
framework of multi-
agent systems.

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and Formation
Control of ...
A distributed
stochastic optimal
control solution is
presented for

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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.

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Integral Control for
Stochastic Multi ...
cooperative control

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increasingly studied
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with many practical
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applications, such
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security,
surveillance, and
transportation.
More specifically,
cases that involve

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more. It presents an

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extended exposition
of the authors ' recent work on all
aspects of multi-
agent technology.
Modelling and
cooperative control
of multi-agent
systems are topics
of great interest,
across both
academia (research
and education) and
industry (for real

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Understanding of
optimal and robust
cooperative control
design techniques
for multi-agent
systems Presents
new theoretical
control challenges
and investigates
unresolved/open
problems Explores
future research
trends in multi-
agent systems

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time dynamical
multi-agent
systems are
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neural adaptive
design techniques
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dynamics, which
are rarely treated in
literature are
developed. Results
spanning systems
with first-, second-
and on up to
general high-order
nonlinear dynamics
are presented. Each
control
methodology

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proposed is
developed by
rigorous proofs. All
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simulation
examples. The text
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comprehensive
source of
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researchers and

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working with multi-
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effect of the agent

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control laws.

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with uncertainties,
and Lipschitz
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and graph theory,
this monograph:

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problem for
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agent systems
subject to external
disturbances
Designs distributed

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Examines the
distributed

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graph and serves as
a measure for the

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robustness of the
protocols to
variations of the
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graph. By exploiting
the decoupling
feature, adaptive
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protocols are
presented that can
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implemented in a
fully distributed
fashion.

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This book presents
a concise
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robust cooperative
control design for
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volume covers a
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tracking of
quadrotors,
formation flying of
multiple unmanned
aerial vehicles
(UAVs) and fixed-
time formation of
ground vehicles.
Robust cooperative

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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

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Cooperative control,
such as
communication and
input delays,
parametric model
uncertainties and
external
disturbances.

Moving beyond the
scope of existing
works, a systematic
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observation
approach to

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designing robust
cooperative control
laws is presented.
About the Authors
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Zongyu Zuo is a full
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is the challenge
frontier for new
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application domains,

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in terms of the

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cooperative control
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researchers
worldwide. This
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decomposition
allows the reader to
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faceted landscape
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of autonomous

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computing, sensor
networks and data
network congestion

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and experimental
data on the
resolution of the
cooperative control

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problem. It will
appeal to senior
academics,
researchers and
graduate students
as well as
engineers working
in the areas of
cooperative
systems, control
and optimization.

A comprehensive
review of the state

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control of multi-agent systems theory and applications The superiority of multi-agent systems over single agents for the control of unmanned air, water and ground vehicles has been clearly demonstrated in a

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wide range of
application areas.
Their large-scale
spatial distribution,
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

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developments in the
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systems theory and
applications. The
applications

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described are
mainly in the areas
of unmanned aerial
vehicles (UAVs)
and unmanned
ground vehicles
(UGVs).

Throughout, the
authors link basic
theory to multi-
agent cooperative
control practice —
illustrated within
the context of

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highly-realistic Multi
scenarios of high-
level missions —
without losing sight
of the mathematical
background needed
to provide
performance Co
guarantees under
general working
conditions. Many of
the problems and
solutions
considered involve

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Combinations of Multi
both types of
Agent Systems
vehicles. Topics
Optimal And
explored include
Adaptive
target assignment,
Design
target tracking,
Approaches Co
consensus,
Stochastic Game
stochastic game
theory-based
framework, event-
And Control
triggered control,
Engineering
topology design and
identification,
coordination under

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uncertainty and
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Establishes a bridge
between
fundamental
cooperative control
theory and specific
problems of interest
in a wide range of
applications areas
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applications from
the fields of space
exploration,

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radiation shielding,
site clearance, track
ing/classification,
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presentations of
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and application
frameworks with
relevant commercial
and military
applications

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comprehensive look
at the latest
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field, while offering
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speculation on
future directions for
collective control
systems The use of
multi-agent system
technologies in both
everyday

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Commercial use and national defense is certain to increase tremendously in the years ahead, making this book a valuable resource for researchers, engineers, and applied mathematicians working in systems and controls, as well as advanced

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A detailed and
systematic
introduction to the
distributed
cooperative control
of multi-agent
systems from a
theoretical, network
perspective

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Features detailed analysis and discussions on the distributed cooperative control and dynamics of multi-agent systems Covers comprehensively first order, second order and higher order systems, swarming and flocking behaviors

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Cooperative
Control Of Multi
Agent Systems
Provides a broad
theoretical
framework for
understanding the
fundamentals of
distributed
cooperative control
Approaches Co
Cooperative Control
Design: A
Systematic,
Passivity-Based
Approach discusses
multi-agent

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Coordination Of Multi
Agent Systems
Optimal And
Attitude

coordination, and
synchronization.

The goal of the
book is to introduce
passivity as a
design tool for multi-
agent systems, to
provide exemplary
work using this
tool, and to

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Cooperative
illustrate its Multi
advantages in
designing robust
cooperative control
algorithms. The
discussion begins
with an introduction
to passivity and
demonstrates how
passivity can be
used as a design
tool for motion
coordination.
Followed by the

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Cooperative
Control of adaptive
Multi Agent Systems
redesigns for
Optimal And
recovery while
Adaptive
describing a basic
Design
design, a modified
Approaches Co
design and the
parameter
communications
convergence
And Control
problem. Formation
Engineering
control is presented
as it relates to
relative distance
control and relative

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Adaptive
Design
Approaches Co
Applications
And Control
Engineering

Multiagent systems
(MAS) are one of

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munication
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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
entities. Recent
developments have
produced very

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encouraging results
in the novel
Agent Systems
approach of
Optimal And
handling multiplayer
Adaptive
interactive systems.
Design
In particular, the
multiagent system
Approaches Co
approach is adapted
to model, control,
communications
manage or test the
And Control
operations and
Engineering
management of
several system
applications

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Cooperative
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
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

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comprises chapters
on synchronization
and consensus in
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

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of multi-agent
dynamical systems
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-

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Cooperative
agent dynamical
systems on
networks is the
design of
distributed
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

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Approaches Co
Implementations
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results that
research in
multiagent systems
offer opportunities
for further
developments in
theoretical,
simulation and
implementations.
This book attempts
to fill this gap and
aims at presenting a
comprehensive
volume that

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documents
theoretical aspects
and practical
applications.

Adaptive
Design
Approaches Co
municative
And Control
Engineering
This monograph
presents new
theories and
methods for fixed-
time cooperative
control of multi-
agent systems.

Fundamental
concepts of fixed-

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time stability and
stabilization are
introduced with
insightful
understanding. This
book presents
solutions for
several problems of
fixed-time
cooperative control
using systematic
design methods.
The book compares
fixed-time

Read Free
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Cooperative control
with asymptotic
cooperative control,
demonstrating how
the former can
achieve better
closed-loop
performance and
disturbance
rejection
properties. It also
discusses the
differences from
finite-time control,

Read Free
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Control shows how
fixed-time
cooperative control
can produce the
faster rate of
convergence and
provide an explicit
estimate of the
settling time
independent of
initial conditions.
This monograph
presents multiple
applications of fixed-

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time control Of Multi
schemes, including
to distributed
optimization of multi-
agent systems,
making it useful to
students,
researchers and
engineers alike.

And Control

Engineering
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