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Autore	Figes, Eva
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Autore	Queiroz Marcio S. de
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Nota di contenuto

Sommario/riassunto

Introduction -- Single-integrator model -- Double-integrator model --
Robotic vehicle model -- Experimentation.

Formation Control of Multi-Agent Systems: A Graph Rigidity Approach
Marcio de Queiroz, Louisiana State University, USA Xiaoyu Cai, FARO
Technologies, USA Matthew Feemster, U.S. Naval Academy, USA A
comprehensive guide to formation control of multi-agent systems
using rigid graph theory This book is the first to provide a
comprehensive and unified treatment of the subject of graph rigidity-
based formation control of multi-agent systems. Such systems are
relevant to a variety of emerging engineering applications, including
unmanned robotic vehicles and mobile sensor networks. Graph theory,
and rigid graphs in particular, provides a natural tool for describing the
multi-agent formation shape as well as the inter-agent sensing,
communication, and control topology. Beginning with an introduction
to rigid graph theory, the contents of the book are organized by the
agent dynamic model (single integrator, double integrator, and
mechanical dynamics) and by the type of formation problem (formation
acquisition, formation manoeuvring, and target interception). The book
presents the material in ascending level of difficulty and in a self-
contained manner; thus, facilitating reader understanding. Key
features: Uses the concept of graph rigidity as the basis for describing
the multi-agent formation geometry and solving formation control
problems. Considers different agent models and formation control
problems. Control designs throughout the book progressively build
upon each other. Provides a primer on rigid graph theory. Combines
theory, computer simulations, and experimental results. Formation
Control of Multi-Agent Systems: A Graph Rigidity Approach is targeted
at researchers and graduate students in the areas of control systems
and robotics. Prerequisite knowledge includes linear algebra, matrix
theory, control systems, and nonlinear systems.

3. Record Nr.	UNISA996210673503316
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Disciplina	382/.9142/05
Soggetti	Steel industry and trade - European Economic Community countries Coal trade - European Economic Community countries UE/CE Activités Publications périodiques UE/CE Etats membres Communauté européenne Union européenne délégation de la Commission rôle international de l'UE Coal trade Steel industry and trade Europese Unie FOREIGN RELATIONS SOCIAL CONDITIONS WESTERN EUROPE Periodicals. European Union countries Periodicals European Economic Community countries European Union countries
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