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Autore	Zhang Yinyan
Titolo	Machine Behavior Design And Analysis [[electronic resource] ] : A Consensus Perspective // by Yinyan Zhang, Shuai Li
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-3231-1
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVII, 183 p. 44 illus., 38 illus. in color.)
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Soggetti	Robotics Artificial intelligence Multiagent Systems
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Introduction to Collective Machine Behavior -- Chapter 2: Second-Order Min-Consensus -- Chapter 3: Consensus of High-Order Discrete-Time Multi-Agent Systems -- Chapter 4: Continuous-Time Biased Min-Consensus -- Chapter 5: Discrete-Time Biased Min-Consensus -- Chapter 6: Biased Consensus Based Distributed Neural Network -- Chapter 7: Predictive Suboptimal Consensus -- Chapter 8: Adaptive Near-Optimal Consensus.
Sommario/riassunto	In this book, we present our systematic investigations into consensus in multi-agent systems. We show the design and analysis of various types of consensus protocols from a multi-agent perspective with a focus on min-consensus and its variants. We also discuss second-order and high-order min-consensus. A very interesting topic regarding the link between consensus and path planning is also included. We show that a biased min-consensus protocol can lead to the path planning phenomenon, which means that the complexity of shortest path planning can emerge from a perturbed version of min-consensus protocol, which as a case study may encourage researchers in the field of distributed control to rethink the nature of complexity and the distance between control and intelligence. We also illustrate the design and analysis of consensus protocols for nonlinear multi-agent systems derived from an optimal control formulation, which do not require solving a Hamilton-Jacobi-Bellman (HJB) equation. The book was

written in a self-contained format. For each consensus protocol, the performance is verified through simulative examples and analyzed via mathematical derivations, using tools like graph theory and modern control theory. The book's goal is to provide not only theoretical contributions but also explore underlying intuitions from a methodological perspective.

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2. **Record Nr.** UNIORUON00200539  
**Autore** MELO, Francisco Manuel : de  
**Titolo** Cartas de D. Francisco Manuel de Melo a Duarte Ribeiro de Macedo / D. Francisco Manuel de Melo ; publicadas com um estudo introdutório por Virginia Rau.- Lisboa : Publicações da Revista da Faculdade de Letras da Universidade de Lisboa, 1968. 64 p., 15 p. di tav. ; 24 cm
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**Lingua di pubblicazione** Portoghese

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**Livello bibliografico** Monografia

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