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Autore	Lin Yaning
Titolo	Essays on Pareto Optimality in Cooperative Games [[electronic resource] /] / by Yaning Lin, Weihai Zhang
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Existence conditions of Pareto solutions in the finite horizon stochastic differential game -- Existence conditions of Pareto solutions in the infinite horizon stochastic differential game -- LQ Pareto game of the stochastic singular systems in finite horizon -- LQ Pareto game of the stochastic singular systems in infinite horizon -- Pareto-based guaranteed cost control of the uncertain mean-field stochastic systems -- Existence conditions of Pareto solutions in the finite horizon cooperative difference game -- Existence conditions of Pareto solutions in the infinite horizon cooperative difference game -- References.
Sommario/riassunto	The book focuses on Pareto optimality in cooperative games. Most of the existing works focus on the Pareto optimality of deterministic continuous-time systems or for the regular convex LQ case. To expand

on the available literature, we explore the existence conditions of Pareto solutions in stochastic differential game for more general cases. In addition, the LQ Pareto game for stochastic singular systems, Pareto-based guaranteed cost control for uncertain mean-field stochastic systems, and the existence conditions of Pareto solutions in cooperative difference game are also studied in detail. Addressing Pareto optimality for more general cases and wider systems is one of the major features of the book, making it particularly suitable for readers who are interested in multi-objective optimal control. Accordingly, it offers a valuable asset for researchers, engineers, and graduate students in the fields of control theory and control engineering, economics, management science, mathematics, etc.