

1. Record Nr.	UNINA9910725098903321
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Titolo	Fault-Tolerant Control for Time-Varying Delayed T-S Fuzzy Systems // by Shaoxin Sun, Huaguang Zhang, Xiaojie Su, Jinyu Zhu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819913572 9789819913565
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (230 pages)
Collana	Intelligent Control and Learning Systems, , 2662-5466 ; ; 9
Altri autori (Persone)	ZhangHuaguang SuXiaojie ZhuJinyu
Disciplina	511.313
Soggetti	Automatic control System theory Control theory Stochastic processes Automation Control and Systems Theory Systems Theory, Control Stochastic Systems and Control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 Introduction -- Chapter 2 Fault Estimation and Tolerant Control for Time-Varying Delayed Fuzzy Systems with Actuator Faults -- Chapter 3 Fault Estimation and Tolerant Control for Multiple Time Delayed Fuzzy Systems with Sensor and Actuator Faults -- Chapter 4 Multiple Intermittent Fault Estimation and Tolerant Control for Switched T-S Fuzzy Stochastic Systems with Multiple Delays -- Chapter 5 Fault-Tolerant Control for Multiple Interval Time Delayed Switched Fuzzy Systems With Intermittent Faults -- Chapter 6 Fault-Tolerant Control for Multiple-Delayed Switched Fuzzy Stochastic Systems With Intermittent Faults -- Chapter 7 Conclusion and Prospect.
Sommario/riassunto	This book delves into the complexities of fault estimation and fault-tolerant control for nonlinear time-delayed systems. Through the use

of multiple-integral observers, it addresses fault estimation and active fault-tolerant control for time-delayed fuzzy systems with actuator faults and both actuator and sensor faults. Additionally, the book explores the use of sliding mode control to solve issues of sensor fault estimation, intermittent actuator fault estimation, and active fault-tolerant control for time-delayed switched fuzzy systems. Furthermore, it presents the use of  $H$  guaranteed cost control for both time-delayed switched fuzzy systems and time-delayed switched fuzzy stochastic systems with intermittent actuator and sensor faults. Finally, the problem of delay-dependent finite-time fault-tolerant control for uncertain switched T-S fuzzy systems with multiple time-varying delays, intermittent process faults and intermittent sensor faults is studied. The research on fault estimation and tolerant control has drawn attention from engineers and scientists in various fields such as electrical, mechanical, aerospace, chemical, and nuclear engineering. The book provides a comprehensive framework for this topic, placing a strong emphasis on the importance of stability analysis and the impact of result conservatism on the design and implementation of observers and controllers. It is intended for undergraduate and graduate students interested in fault diagnosis and tolerant control technology, researchers studying time-varying delayed T-S fuzzy systems, and observer/controller design engineers working on system stability applications.

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2. Record Nr.	UNINA9910895648003321
Titolo	Acta Ordinis Fratrum Minorum : vel ad ordinem quoquo modo pertinentia
Pubbl/distr/stampa	Roma, : Curia Generalis Ordinis, [2009?]-
Descrizione fisica	Online-Ressource
Classificazione	1
Disciplina	230
Soggetti	Zeitschrift
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Gesehen am 29.4.2019