

1. Record Nr.	UNINA9910624318803321
Autore	Zhang Ziyi
Titolo	Complex-Valued Neural Networks Systems with Time Delay : Stability Analysis and (Anti-)Synchronization Control / / by Ziyi Zhang, Zhen Wang, Jian Chen, Chong Lin
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-19-5450-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (236 pages)
Collana	Intelligent Control and Learning Systems, , 2662-5466 ; ; 4
Disciplina	006.32
Soggetti	Automatic control Neural networks (Computer science) Control and Systems Theory Mathematical Models of Cognitive Processes and Neural Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. Introduction -- 2. Stability Analysis of Delayed Complex-Valued Neural Networks Systems -- 3. Further Behavior Analysis about Stability and Hopf Bifurcation -- 4. Stability Analysis Based on Nonlinear Measure Approach -- 5. Lagrange Exponential Stability for Delayed Complex-Valued Neural Networks Systems -- 6. Synchronization Control: Nonseparable Case -- 7. Anti-Synchronization Control: Nonseparable Case -- 8. Anti-Synchronization Control: Separable Case -- 9. Finite/Fixed-Time Synchronization Control -- 10. Fixed-Time Pinning Synchronization and Adaptive Synchronization.
Sommario/riassunto	This book provides up-to-date developments in the stability analysis and (anti-)synchronization control area for complex-valued neural networks systems with time delay. It brings out the characteristic systematism in them and points out further insight to solve relevant problems. It presents a comprehensive, up-to-date, and detailed treatment of dynamical behaviors including stability analysis and (anti-)synchronization control. The materials included in the book are mainly based on the recent research work carried on by the authors in this domain. The book is a useful reference for all those from senior undergraduates, graduate students, to senior researchers interested in

or working with control theory, applied mathematics, system analysis and integration, automation, nonlinear science, computer and other related fields, especially those relevant scientific and technical workers in the research of complex-valued neural network systems, dynamic systems, and intelligent control theory.
