1.	Record Nr.	UNINA9910349319003321
	Titolo	Delays and Interconnections: Methodology, Algorithms and Applications // edited by Giorgio Valmorbida, Alexandre Seuret, Islam Boussaada, Rifat Sipahi
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
	ISBN	3-030-11554-2
	Edizione	[1st ed. 2019.]
	Descrizione fisica	1 online resource (XIV, 315 p. 63 illus., 30 illus. in color.)
	Collana	Advances in Delays and Dynamics, , 2197-117X ; ; 10
	Disciplina	519 629.8312
	Soggetti	System theory Control engineering Vibration Dynamical systems Dynamics Partial differential equations Systems Theory, Control Control and Systems Theory Vibration, Dynamical Systems, Control Partial Differential Equations
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Singular perturbation approach for linear coupled ODE-PDE systems On some neutral functional dierential equations occurring in synchronization Dynamic Dissipativity Theory for Stability of Time- Delay Systems Stability of interconnected uncertain delay systems: a converse Lyapunov approach ISS-stabilization of delayed neural elds by small-gain arguments Robustness of delayed multistable systems A Small-Gain Method for the Design of Decentralized Stabilizing Controllers for Interconnected Systems with Delays Stability Analysis of Uniformly Distributed Delay Systems: A Frequency- Sweeping Approach Asymptotic Analysis of Multiple Characteristics Roots for Quasi polynomials of Retarded-Type Scanning the Space

	of Parameters for Stability Regions of a Class of Time-Delay Systems; a Lyapunov Matrix Approach.
Sommario/riassunto	This book contains advances on the theory and applications of time- delay systems with particular focus on interconnected systems. The methods for stability analysis and control design are based on time- domain and frequency-domain approaches, for continuous-time and sampled-data systems, linear and nonlinear systems. This volume is a valuable source of reference for control practitioners, graduate students, and scientists researching practical as well as theoretical solutions to a variety of control problems inevitably influenced by the presence of time delays. The contents are organized in three parts: Interconnected Systems analysis, Modeling and and Analysis for Delay systems, and Stabilization and Control Strategies for Delay Systems. This volume presents a selection of 19 contributions presented in the 4th DelSys Workshop which took place in Gif-sur-Yvette, France November 25-27, 2015.