1. Record Nr. UNINA9910711435003321

Titolo	High-risk series: urgent actions are needed to address cybersecurity challenges facing the nation : testimony before the Subcommittees on Government Operations and Information Technology, Committee on Oversight and Government Reform, House of Representatives / / / statement of Gene L. Dodaro
Pubbl/distr/stampa	[Washington, D.C.] : , : United States Government Accountability Office, , 2018
Descrizione fisica	1 online resource (37 pages) : color illustrations
Collana	Testimony ; ; GAO-18-645T
Soggetti	Computer security - Government policy - United States Administrative agencies - Computer networks - Security measures - United States Cyberinfrastructure - Government policy - United States Data protection - Government policy - United States Cyberspace - Security measures - Government policy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"For release on delivery, expected at 2:00 p.m. ET, Wednesday, July 25, 2018."
Nota di bibliografia	Includes bibliographical references.

2. Record Nr. UNINA9910299835103321

Autore	Abidi Khalid
Titolo	Advanced Discrete-Time Control : Designs and Applications / / by Khalid Abidi, Jian-Xin Xu
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2015
ISBN	9789812874788 981287478X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (232 p.)
Collana	Studies in Systems, Decision and Control, , 2198-4182 ; ; 23
Disciplina	003.83
Soggetti	Automatic control System theory Artificial intelligence Applied mathematics Engineering mathematics Control and Systems Theory Systems Theory, Control Artificial Intelligence Mathematical and Computational Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Discrete-Time Sliding Mode Control -- Discrete-Time Periodic Adaptive Control -- Discrete-Time Adaptive Posicast Control -- Discrete-Time Iterative Learning Control -- Discrete-Time Fuzzy PID Control -- Benchmark Precision Control of a Piezo-Motor Driven Linear Stage -- Advanced Control for Practical Engineering Applications.
Sommario/riassunto	This book covers a wide spectrum of systems such as linear and nonlinear multivariable systems as well as control problems such as disturbance, uncertainty and time-delays. The purpose of this book is to provide researchers and practitioners a manual for the design and application of advanced discrete-time controllers. The book presents six different control approaches depending on the type of system and control problem. The first and second approaches are based on Sliding Mode control (SMC) theory and are intended for linear systems with

exogenous disturbances. The third and fourth approaches are based on adaptive control theory and are aimed at linear/nonlinear systems with periodically varying parametric uncertainty or systems with input delay. The fifth approach is based on Iterative learning control (ILC) theory and is aimed at uncertain linear/nonlinear systems with repeatable tasks and the final approach is based on fuzzy logic control (FLC) and is intended for highly uncertain systems with heuristic control knowledge. Detailed numerical examples are provided in each chapter to illustrate the design procedure for each control method. A number of practical control applications are also presented to show the problem solving process and effectiveness with the advanced discrete-time control approaches introduced in this book.