1. Record Nr.   UNINA9910797050803321

   Titolo   Invasive alien species : a new synthesis / / edited by Harold A. Mooney
                      [and five others]

   Pubbl/distr/stampa Washington ; ; Covelo ; ; London : , : Island Press, , [2005]
                      ©2005

   ISBN   1-59726-288-9

   Descrizione fisica 1 online resource (392 pages)

   Collana   SCOPE ; ; Volume 63

   Disciplina   363.78

   Soggetti   Nonindigenous pests - Control

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Note generali   Bibliographic Level Mode of Issuance: Monograph

   Nota di contenuto Intro -- Title Page -- Copyright Page -- Table of Contents -- List of
                      Figures, Tables, and Boxes -- Preface -- Acknowledgments -- Chapter
                      1: Invasive Alien Species: The Nature of the Problem -- Chapter 2: The
                      Economics of Biological Invasions -- Chapter 3:Vector Science and
                      Integrated Vector Management in Bioinvasion Ecology: Conceptual
                      Frameworks -- Chapter 4: The ISSG Global Invasive Species Database
                      and Other Aspects of an Early Warning System -- Chapter 5:
                      Characterizing Ecological Risks of Introductions and Invasions --
                      Chapter 6: Ecology of Invasive Plants:State of the Art -- Chapter 7:
                      Facilitation and Synergistic Interactions between Introduced Aquatic
                      Species -- Chapter 8: Assessing Biotic Invasions in Time and Space:
                      The Second Imperative -- Chapter 9: Best Practices for the Prevention
                      and Management of Invasive Alien Species -- Chapter 10: Legal and
                      Institutional Frameworks for Invasive Alien Species -- Chapter 11:
                      Human Dimensions of Invasive Alien Species -- Chapter 12: Invasive
                      Species in a Changing World: The Interactions between Global Change
                      and Invasives -- Chapter 13: A Global Strategy on Invasive Alien
                      Species: Synthesis and Ten Strategic Elements -- List of Contributors --
                      SCOPE Series List -- SCOPE Executive Committee -- Index.

2.	Record Nr.	UNINA9910484621203321
	Autore	Bingi Kishore
	Titolo	Fractional-order Systems and PID Controllers : Using Scilab and Curve Fitting Based Approximation Techniques / / by Kishore Bingi, Rosdiazli Ibrahim, Mohd Noh Karsiti, Sabo Miya Hassan, Vivekananda Rajah Harindran
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
	ISBN	3-030-33934-3
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (267 pages) : illustrations (some color), charts
	Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 264
	Disciplina	629.8
	Soggetti	Control engineering
		Computational intelligence
		System theory
		Control theory
		Control and Systems Theory
		Computational Intelligence
		Systems Theory, Control
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Introduction -- Fractional-order Set-point Weighted Controllers and Approximation Techniques -- Fractional-order Set-point Weighted Controllers -- Approximation Techniques -- Scilab Toolbox For Fractional-order Systems and Controllers -- Scilab Based Toolbox For Fractional-order Systems and PID Controllers -- Scilab Based Toolbox for Fractional-order Chaotic Systems -- Appendix -- Index.
	Sommario/riassunto	This book presents a detailed study on fractional-order, set-point, weighted PID control strategies and the development of curve-fitting-based approximation techniques for fractional-order parameters. Furthermore, in all the cases, it includes the Scilab-based commands and functions for easy implementation and better understanding, and to appeal to a wide range of readers working with the software. The presented Scilab-based toolbox is the first toolbox for fractional-order systems developed in open-source software. The toolboxes allow time

and frequency domains as well as stability analysis of the fractional-order systems and controllers. The book also provides real-time examples of the control of process plants using the developed fractional-order based PID control strategies and the approximation techniques. The book is of interest to readers in the areas of fractional-order controllers, approximation techniques, process modeling, control, and optimization, both in industry and academia. In industry, the book is particularly valuable in the areas of research and development (R&D) as well as areas where PID controllers suffice – and it should be noted that around 80% of low-level controllers in industry are PID based. The book is also useful where conventional PIDs are constrained, such as in industries where long-term delay and non-linearity are present. Here it can be used for the design of controllers for real-time processes. The book is also a valuable teaching and learning resource for undergraduate and postgraduate students.