1. Record Nr. UNINA9910143318703321 Autore Lamnabhi-Lagarrigu Françoise Titolo Taming heterogenity and complexity of embedded control / / edited by Francoise Lamnabhi-Lagarrigue [and three others] London, England: Newport Beach, California: .: ISTE. . 2007 Pubbl/distr/stampa ©2007 **ISBN** 1-118-61513-1 0-470-61221-5 0-470-39487-0 1-280-84780-8 9786610847808 1-84704-615-0 Edizione [1st edition] Descrizione fisica 1 online resource (752 p.) Collana ISTE Disciplina 629.836 Soggetti Digital control systems Embedded computer systems Nonlinear control theory Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "This book gathers selected papers presented at the Joint CTS-HYCON Workshop on Nonlinear and Hybrid Control, held at Paris Sorbonne University (Paris IV) on 10-12 July 2006."--Pref. Nota di bibliografia Includes bibliographical references at the end of each chapters. Cover: Title Page: Copyright Page: Table of Contents: Preface: Chapter Nota di contenuto 1. Ellipsoidal Output-Feedback Sets for H Control of a Class of Stochastic Hybrid Systems with State-Dependent Noise; Chapter 2. A Contribution to the Study of Periodic Systems in the Behavioral Approach; Chapter 3. Iteratively Improving Moving Horizon Observers for Repetitive Processes; Chapter 4. Exponential Stability of Dynamic Equations on Time Scales; Chapter 5. Jurdjevic-Quinn Conditions and **Discontinuous Bounded Damping Control** Chapter 6. Smooth Approximations of Single-Input Optimal Orbital Transfer using Continuation and Averaging TechniquesChapter 7. Achieving Stability in Non-holonomic Systems by Means of Switched Control Laws; Chapter 8. Stability of Equilibria for Hybrid Models of

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## Sommario/riassunto

This book gathers together a selection of papers presented at the Joint CTS-HYCON Workshop on Nonlinear and Hybrid Control held at the Paris Sorbonne, France, 10-12 July 2006. The main objective of the Workshop was to promote the exchange of ideas and experiences and reinforce scientific contacts in the large multidisciplinary area of the control of nonlinear and hybrid systems.