

1. Record Nr.	UNISA996465773203316
Titolo	Switching and Learning in Feedback Systems [[electronic resource]] : European Summer School on Multi-Agent Control, Maynooth, Ireland, September 8-10, 2003, Revised Lectures and Selected Papers / / edited by Roderick Murray-Smith, Robert Shorten
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2005
ISBN	3-540-30560-2
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (X, 346 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 3355
Disciplina	629.8/3
Soggetti	Computer science Computer simulation Artificial intelligence Computers, Special purpose Computer science—Mathematics Mathematical statistics Dynamical systems Theory of Computation Computer Modelling Artificial Intelligence Special Purpose and Application-Based Systems Probability and Statistics in Computer Science Dynamical Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Switching and Control -- From Feedback Control to Complexity Management: A Personal Perspective -- Convex Cones, Lyapunov Functions, and the Stability of Switched Linear Systems -- Survey of Explicit Approaches to Constrained Optimal Control -- Gaussian Processes -- Analysis of Some Methods for Reduced Rank Gaussian Process Regression -- Filtered Gaussian Processes for Learning with Large Data-Sets -- Self-tuning Control of Non-linear Systems Using

Gaussian Process Prior Models -- Gaussian Processes: Prediction at a Noisy Input and Application to Iterative Multiple-Step Ahead Forecasting of Time-Series -- Nonlinear Predictive Control with a Gaussian Process Model -- Applications of Switching & Learning -- Control of Yaw Rate and Sideslip in 4-Wheel Steering Cars with Actuator Constraints -- A Second-Order Cone Bounding Algorithm for Robust Minimum Variance Beamforming -- Joint Optimization of Wireless Communication and Networked Control Systems -- Reconciliation of Inconsistencies in the Theory of Linear Systems -- An Introduction to Nonparametric Hierarchical Bayesian Modelling with a Focus on Multi-agent Learning -- Simultaneous Localization and Surveying with Multiple Agents -- Hex: Dynamics and Probabilistic Text Entry.

---

#### Sommario/riassunto

A central theme in the study of dynamic systems is the modelling and control of uncertain systems. While 'uncertainty' has long been a strong motivating factor behind many techniques developed in the modelling, control, statistics and mathematics communities, the past decade, in particular, has witnessed remarkable progress in this area with the emergence of a number of powerful new methods for both modelling and controlling uncertain dynamics systems. The specific objective of this book is to describe and review some of these exciting new approaches within a single volume. Our approach was to invite some of the leading researchers in this area to contribute to this book by submitting both tutorial papers on their specific area of research, and to submit more focussed research papers to document some of the latest results in the area. We feel that collecting some of the main results together in this manner is particularly important as many of the important ideas that emerged in the past decade were derived in a variety of academic disciplines. By providing both tutorial and research papers we hope to be able to provide the interested reader with sufficient background to appreciate some of the main concepts from a variety of related, but nevertheless distinct fields, and to provide a flavor of how these results are currently being used to cope with 'uncertainty'. It is our sincere hope that the availability of these results within a single volume will lead to further cross-fertilization of ideas and act as a spark for further research in this important area of applied mathematics.

---

2. Record Nr.	UNISA996280735003316
Titolo	IEEE Guide for Aeolian Vibration Field Measurement of Overhead Conductors / / Institute of Electrical and Electronics Engineers
Pubbl/distr/stampa	New York, NY : , : IEEE, , 2006
ISBN	0-7381-5309-5
Descrizione fisica	1 online resource (vii, 25 pages) : illustrations
Disciplina	537.62
Soggetti	Electric conductors Overhead electric lines Overhead electric lines - Vibration Vibration - Measurement
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Current practices related to field measurements of aeolian vibration of overhead conductors are covered in this guide.