1. Record Nr. UNINA9910450158503321

Autore	Prastaro Agostino
Titolo	Quantized partial differential equations [[electronic resource] /] / A Prastaro
Pubbl/distr/stampa	River Edge, NJ, : World Scientific, c2004
ISBN	1-281-87247-4 9786611872472 981-256-251-6
Descrizione fisica	1 online resource (500 p.)
Disciplina	515.353 517.383
Soggetti	Quantum groups Quantum field theory Electronic books.
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 (p. 461-471) and index.
Nota di contenuto	Quantized Partial Differential Equations; Preface; CONTENTS; Quantized PDE's I: Noncommutative Manifolds; Quantized PDE's. II: Noncommutative PDE's; Quantized PDE's III: Quantizations of Commutative PDE's; Addendum I: Bordism groups and the (NS)-problem; Addendum II: Bordism groups and variational PDE's; References; Index
Sommario/riassunto	This book presents, for the first time, a systematic formulation of the geometric theory of noncommutative PDE's which is suitable enough to be used for a mathematical description of quantum dynamics and quantum field theory. A geometric theory of supersymmetric quantum PDE's is also considered, in order to describe quantum supergravity. Covariant and canonical quantizations of (super) PDE's are shown to be founded on the geometric theory of PDE's and to produce quantum (super) PDE's by means of functors from the category of commutative (super) PDE's to the category of quantum (super)PDE's. Global

2. Record Nr. UNINA9910483750303321

Titolo	Hybrid systems : computation and control : 8th international workshop, HSCC 2005, Zurich, Switzerland, March 9-11, 2005 : proceedings / / Manfred Morari, Lothar Thiele (eds.)
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, 2005
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (XII, 684 p.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 3414
Altri autori (Persone)	MorariManfred ThieleLothar
Disciplina	004.0151
Soggetti	Hybrid computers Digital control 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	Invited Papers -- Coordinated Control for Highly Reconfigurable Systems -- Operational Semantics of Hybrid Systems -- SOS Methods for Semi-algebraic Games and Optimization -- Regular Papers -- The Discrete Time Behavior of Lazy Linear Hybrid Automata -- Perturbed Timed Automata -- A Homology Theory for Hybrid Systems: Hybrid Homology -- Observability of Switched Linear Systems in Continuous Time -- Controller Synthesis on Non-uniform and Uncertain Discrete–Time Domains -- Qualitative Analysis and Verification of Hybrid Models of Genetic Regulatory Networks: Nutritional Stress Response in Escherichia coli -- Optimal Control of Discrete Hybrid Stochastic Automata -- Hybrid Decentralized Control of Large Scale Systems -- On the Stabilisation of Switching Electrical Power Converters -- Bisimulation for General Stochastic Hybrid Systems -- Position and Force Control of Nonsmooth Lagrangian Dynamical Systems Without Friction -- Existence of Cascade Discrete-Continuous State Estimators for Systems on a Partial Order -- Refining Abstractions of Hybrid Systems Using Counterexample Fragments -- PHAVer: Algorithmic Verification of Hybrid Systems Past HyTech -- Direct Torque Control for Induction Motor Drives: A Model Predictive Control Approach Based on Feasibility -- Reachability of Uncertain Linear Systems Using Zonotopes -- Safety Verification of Controlled Advanced Life Support System Using

Barrier Certificates -- Polynomial Stochastic Hybrid Systems -- Non-uniqueness in Reverse Time of Hybrid System Trajectories -- Comparison of Four Procedures for the Identification of Hybrid Systems -- An Ontology-Based Approach to Heterogeneous Verification of Embedded Control Systems -- Mode-Automata Based Methodology for Scade -- Taylor Approximation for Hybrid Systems -- Infinity Norms as Lyapunov Functions for Model Predictive Control of Constrained PWA Systems -- Air-Traffic Control in Approach Sectors: Simulation Examples and Optimisation -- Identification of Deterministic Switched ARX Systems via Identification of Algebraic Varieties -- Learning Multi-modal Control Programs -- A Toolbox of Hamilton-Jacobi Solvers for Analysis of Nondeterministic Continuous and Hybrid Systems -- On Transfinite Hybrid Automata -- Design of Optimal Autonomous Switching Circuits to Suppress Mechanical Vibration -- Interchange Formats for Hybrid Systems: Review and Proposal -- Primal–Dual Tests for Safety and Reachability -- Adjoint-Based Optimal Control of the Expected Exit Time for Stochastic Hybrid Systems -- Safety Verification of Hybrid Systems by Constraint Propagation Based Abstraction Refinement -- Generating Polynomial Invariants for Hybrid Systems -- Modeling, Optimization and Computation for Software Verification -- Bisimulation for Communicating Piecewise Deterministic Markov Processes (CPDPs) -- Sensor/Actuator Abstractions for Symbolic Embedded Control Design -- Modeling and Control of Networked Control Systems with Random Delays -- Controllability Implies Stabilizability for Discrete-Time Switched Linear Systems.