1. Record Nr. UNISA996466378303316

Autore	Chu Cho-Ho
Titolo	Matrix Convolution Operators on Groups [[electronic resource] /] / by Cho-Ho Chu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
ISBN	3-540-69798-5
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (IX, 114 p.)
Collana	Lecture Notes in Mathematics, , 0075-8434
Disciplina	512.2
Soggetti	Functions of complex variables Differential geometry Functional analysis Operator theory Harmonic analysis Nonassociative rings Rings (Algebra) Functions of a Complex Variable Differential Geometry Functional Analysis Operator Theory Abstract Harmonic Analysis Non-associative Rings and Algebras
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	Lebesgue Spaces of Matrix Functions -- Matrix Convolution Operators -- Convolution Semigroups.
Sommario/riassunto	In the last decade, convolution operators of matrix functions have received unusual attention due to their diverse applications. This monograph presents some new developments in the spectral theory of these operators. The setting is the Lp spaces of matrix-valued functions on locally compact groups. The focus is on the spectra and eigenspaces of convolution operators on these spaces, defined by matrix-valued measures. Among various spectral results, the L2-

spectrum of such an operator is completely determined and as an application, the spectrum of a discrete Laplacian on a homogeneous graph is computed using this result. The contractivity properties of matrix convolution semigroups are studied and applications to harmonic functions on Lie groups and Riemannian symmetric spaces are discussed. An interesting feature is the presence of Jordan algebraic structures in matrix-harmonic functions.

2. Record Nr. UNINA9910349269603321

Titolo	Formal Methods and Software Engineering : 21st International Conference on Formal Engineering Methods, ICFEM 2019, Shenzhen, China, November 5–9, 2019, Proceedings / / edited by Yamine Ait-Ameur, Shengchao Qin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-32409-5
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (xxi, 528 pages)
Collana	Programming and Software Engineering, , 2945-9168 ; ; 11852
Disciplina	005.1 004.0151
Soggetti	Computer science Artificial intelligence Software engineering Computer engineering Computer networks Computer simulation Theory of Computation Artificial Intelligence Software Engineering Computer Engineering and Networks Computer Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.

Nota di contenuto

Secure Deep Learning Engineering: a Road towards Quality Assurance of Intelligent Systems -- Using DimSpec for Bounded and Unbounded Software Model Checking -- SMTBCF: Efficient Backbone Computing for SMT Formulas -- Automatic verification for node-based visual script notation using model checking -- A Reo Model of Software Defined Networks -- Design of point-and-click user interfaces for proof assistants -- SqlSol: An accurate SQL Query Synthesizer -- Towards Verifying Ethereum Smart Contracts at Intermediate Language Level -- Simulations for ATL with imperfect information -- On the generation of equational dynamic logics for weighted imperative programs -- A Security Calculus for Wireless Networks of Named Data Networking -- Automatic Modularization of Large Programs for Bounded Model Checking -- PDNet: A Programming Language for Software-Defined Networks with VLAN -- Consistency Enforcement for Static First-Order Invariants in Sequential Abstract State Machines -- Probably Approximate Safety Verification of Hybrid Dynamical Systems -- A Formally Verified Algebraic Approach for Dynamic Reliability Block Diagrams -- Reasoning about Universal Cubes in MCMT -- sCompile: Critical Path Identification and Analysis for Smart Contracts -- A Mechanized Theory of Program Refinement -- A Relational Static Semantics for Call Graph Construction -- Solution Enumeration Abstraction - A Modeling Idiom to Enhance a Lightweight Formal Method -- Formal Analysis of Qualitative Long-Term Behaviour in Parametrised Boolean Networks -- Combining Parallel Emptiness Checks with Partial Order Reductions -- A Coalgebraic Semantics Framework for Quantum Systems -- Parameterized Hardware Verification Through A Term-level Generalized Symbolic Trajectory Evaluation -- An Axiomatisation of the Probabilistic -Calculus -- Synthesizing Nested Ranking Functions for Loop Programs via SVM -- A First Step in the Translation of Alloy to Coq -- Assessment of a Formal Requirements Modeling Approach on a Transportation System -- Design Model Repair with Formal Verification -- A Performance-Sensitive Malware Detection System on Mobile Platform -- Certifying Hardware Model Checking Results -- A Note on Failure Mode Reasoning -- Robustness of Piece-wise Linear Neural Network with Feasible Region Approaches -- Formal Specification and Verification of Smart Contracts -- Spatio-Temporal Specification Language for Cyber-Physical Systems -- A Modeling Framework of Cyber-Physical-Social Systems with Human Behavior Classification based on Machine Learning.

Sommario/riassunto

This book constitutes the proceedings of the 21st International Conference on Formal Engineering Methods, ICFEM 2019, held in Shenzhen, China, in November 2019. The 28 full and 8 short papers presented in this volume were carefully reviewed and selected from 94 submissions. They deal with the recent progress in the use and development of formal engineering methods for software and system design and record the latest development in formal engineering methods. .