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| Collana | Lecture Notes in Computer Science, , 1611-3349 ; ; 13964 |
| Disciplina | 005.1 |
| Soggetti | Software engineering<br>Artificial intelligence<br>Algorithms<br>Computer engineering<br>Computer networks<br>Software Engineering<br>Artificial Intelligence<br>Design and Analysis of Algorithms<br>Computer Engineering and Networks |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Intro -- Preface -- Organization -- Invited Talks -- Privacy-Preserving Automated Reasoning -- Enhancing Programming Experiences Using AI: Leveraging LLMs as Analogical Reasoning Engines and Beyond -- Verified Software Security Down to Gates -- Contents - Part I -- Contents - Part II -- Contents - Part III -- Automata and Logic -- Active Learning of Deterministic Timed Automata with Myhill-Nerode Style Characterization -- 1 Introduction -- 2 Preliminaries -- 2.1 Timed Words and Timed Automata -- 2.2 Recognizable Timed Languages -- 2.3 Distinguishing Extensions and Active DFA Learning -- 3 A Myhill-Nerode Style Characterization of Recognizable Timed Languages with Elementary Languages -- 4 Active Learning of Deterministic Timed Automata -- 4.1 Successors of Simple Elementary Languages -- 4.2 Timed Observation Table for Active DTA Learning -- 4.3 Counterexample Analysis -- 4.4 L*-Style Learning Algorithm for |

DTAs -- 4.5 Learning with a Normal Teacher -- 4.6 Complexity Analysis -- 5 Experiments -- 5.1 RQ1: Scalability with Respect to the Language Complexity -- 5.2 RQ2: Performance on Practical Benchmarks -- 6 Conclusions and Future Work -- References -- Automated Analyses of IOT Event Monitoring Systems -- 1 Introduction -- 2 Overview -- 3 Technique -- 3.1 Well-formedness Properties -- 4 Experiments -- 5 Conclusion -- A Common Issues with Detector Models -- References -- Learning Assumptions for Compositional Verification of Timed Automata -- 1 Introduction -- 2 Preliminaries -- 2.1 Timed Automata -- 2.2 Learning Deterministic One-Clock Timed Automata -- 3 Framework for Learning-Based Compositional Verification of Timed Automata -- 3.1 Verification Framework via Assumption Learning -- 3.2 Model Conversion -- 3.3 Membership Queries -- 3.4 Candidate Queries -- 3.5 Correctness and Termination -- 4 Optimization Methods.
4.1 Using Additional Information -- 4.2 Minimizing the Alphabet of the Assumption -- 5 Experimental Results -- 6 Conclusion -- References -- Online Causation Monitoring of Signal Temporal Logic -- 1 Introduction -- 2 Preliminaries -- 2.1 Signal Temporal Logic -- 2.2 Classic Online Monitoring of STL -- 3 Boolean Causation Online Monitor -- 4 Quantitative Causation Online Monitor -- 5 Experimental Evaluation -- 5.1 Experiment Setting -- 5.2 Evaluation -- 6 Related Work -- 7 Conclusion and Future Work -- References -- Process Equivalence Problems as Energy Games -- 1 Introduction -- 2 Distinctions and Equivalences in Transition Systems -- 2.1 Transition Systems and Hennessy-Milner Logic -- 2.2 Price Spectra of Behavioral Equivalences -- 3 An Energy Game of Distinguishing Capabilities -- 3.1 Energy Games -- 3.2 The Spectroscopy Energy Game -- 3.3 Correctness: Tight Distinctions -- 3.4 Becoming More Clever by Looking One Step Ahead -- 4 Computing Equivalences -- 4.1 Computation of Attacker Winning Budgets -- 4.2 Complexity and How to Flatten It -- 4.3 Equivalences and Distinguishing Formulas from Budgets -- 5 Exploring Minimizations -- 6 Conclusion and Related Work -- References -- Concurrency -- Commutativity for Concurrent Program Termination Proofs -- 1 Introduction -- 2 Preliminaries -- 2.1 Concurrent Programs -- 2.2 Termination -- 2.3 Commutativity and Traces -- 3 Closures and Reductions -- 3.1 The Compromise: A New Proof Rule -- 3.2 Omega Prefix Generalization -- 4 Finite-Word Reductions -- 4.1 Efficient Reduction to Safety -- 4.2 Sound Finite Word Reductions -- 5 Omega Regular Reductions -- 6 Experimental Results -- 7 Related Work -- 8 Conclusion -- References -- Fast Termination and Workflow Nets -- 1 Introduction -- 2 Preliminaries -- 2.1 (Integer) Linear Programs -- 2.2 Petri Nets -- 2.3 Workflow Nets -- 2.4 Termination Complexity.
3 A Dichotomy of Termination Time in Workflow Nets -- 4 Refining Termination Time -- 5 Soundness in Terminating Workflow Nets -- 6 Termination Time and Concurrent Semantics -- 7 Experimental Evaluation -- 7.1 Benchmark Suite -- 7.2 Termination and Deadlocks -- 7.3 aN, MinTimeN(1) and MaxTimeN(1) -- 7.4 1-Soundness -- References -- Lincheck: A Practical Framework for Testing Concurrent Data Structures on JVM -- 1 Introduction -- 2 Lincheck Overview -- 2.1 Phase 1: Scenario Generation -- 2.2 Phase 2: Scenario Running -- 2.3 Phase 3: Verification of Outcome Results -- 3 Evaluation -- 4 Related Work -- 5 Discussion -- References -- nekton: A Linearizability Proof Checker -- 1 Introduction -- 2 Input -- 2.1 Proof Outlines -- 3 Case Study -- 4 Correctness and Implementation -- References -- Overcoming Memory Weakness with Unified Fairness -- 1 Introduction -- 2 Modelling Concurrent Programs -- 2.1 Labelled Transition

Systems -- 2.2 Concurrent Programs -- 2.3 Concurrent Programs as Labelled Transition Systems -- 3 A Unified Framework for Weak Memory Models -- 3.1 Message Structures -- 3.2 Ensuring Consistency of Executions -- 3.3 Instantiating the Framework -- 4 Fairness Properties -- 4.1 Transition and Memory Fairness -- 4.2 Probabilistic Memory Fairness -- 4.3 Relating Fairness Notions -- 5 Applying Fairness Properties to Decision Problems -- 5.1 Deciding Repeated Control State Reachability -- 5.2 Quantitative Control State Repeated Reachability -- 5.3 Adapting Subroutines to Our Memory Framework -- 6 Related Work -- 7 Conclusion, Future Work, and Perspective -- References -- Rely-Guarantee Reasoning for Causally Consistent Shared Memory -- 1 Introduction -- 2 Motivating Example -- 3 Preliminaries: Syntax and Semantics -- 4 Generic Rely-Guarantee Reasoning -- 5 Potential-Based Memory System for SRA -- 6 Program Logic -- 7 Examples.
8 Discussion, Related and Future Work -- References -- Unblocking Dynamic Partial Order Reduction -- 1 Introduction -- 2 DPOR and Blocked Executions -- 2.1 Dynamic Partial Order Reduction -- 2.2 Assume Statements and DPOR -- 3 Key Ideas -- 3.1 Avoiding Blocking Due to Stale Reads -- 3.2 Handling Await Loops with In-Place Revisits -- 3.3 Handling Confirmation CASes with Speculative Revisits -- 4 Await-Aware Model Checking Algorithm -- 4.1 Execution Graphs -- 4.2 Awamoche -- 5 Correctness and Optimality -- 5.1 Approaches to Correctness -- 5.2 Awamoche: Completeness, Optimality, and Strong Optimality -- 6 Evaluation -- 6.1 Results -- 7 Related Work -- 8 Conclusion -- References -- Cyber-Physical and Hybrid Systems -- 3D Environment Modeling for Falsification and Beyond with Scenic 3.0 -- 1 Introduction -- 2 New Features -- 2.1 3D Geometry -- 2.2 Mesh Shapes and Regions -- 2.3 Precise Visibility Model -- 2.4 Temporal Requirements -- 2.5 Rewritten Parser -- 3 Case Studies -- 3.1 Falsification of a Robot Vacuum -- 3.2 Constrained Data Generation for an Autonomous Vehicle -- 4 Conclusion -- References -- A Unified Model for Real-Time Systems: Symbolic Techniques and Implementation -- 1 Introduction -- 2 Generalized timed automata -- 3 Expressivity of GTA and Examples -- 4 The Reachability Problem for GTA -- 5 Symbolic Enumeration -- 6 Computing with GTA Zones Using Distance Graphs -- 7 Finiteness of the Simulation Relation -- 8 Experimental Evaluation -- 9 Conclusion -- References -- Closed-Loop Analysis of Vision-Based Autonomous Systems: A Case Study -- 1 Introduction -- 2 Autonomous Center-Line Tracking with TaxiNet -- 3 Probabilistic Analysis -- 3.1 Probabilistic Abstractions for Perception -- 3.2 DNN Checks as Run-Time Guards -- 3.3 Confidence Analysis -- 4 Experiments -- 5 Conclusion -- References.
Hybrid Controller Synthesis for Nonlinear Systems Subject to Reach-Avoid Constraints -- 1 Introduction -- 1.1 Related Works -- 2 Preliminaries -- 3 Hybrid Polynomial-DNN Controllers Training -- 3.1 Training Well-Performing DNN Controllers Using RL -- 3.2 Polynomial Approximation -- 3.3 Training the Residual Controller -- 4 Reach-Avoid Verification with Lyapunov-Like Functions and Barrier Certificates Generation -- 4.1 Constructing Polynomial Simulations of the Controller Network -- 4.2 Producing Barrier Certificate and Lyapunov-Like Function -- 5 Experiments -- 6 Conclusion -- References -- Safe Environmental Envelopes of Discrete Systems -- 1 Introduction -- 2 Motivating Example -- 3 Modeling Formalism -- 4 Robustness Against Environmental Deviations -- 4.1 Deviations -- 4.2 Comparing Deviations -- 4.3 Robustness -- 4.4 Problem Statement -- 4.5 Comparing Robustness -- 5 Computing Robustness -- 5.1 Brute-Force Algorithm -- 5.2 Controlling the Deviations Without Environmental

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| | Constraints -- 5.3 Controlling the Deviations with Environmental Constraints -- 6 Case Studies -- 6.1 Implementation -- 6.2 Therac-25 -- 6.3 Voting -- 6.4 Oyster -- 6.5 PCA Pump -- 6.6 Results and Discussion -- 7 Related Work -- 8 Conclusion -- References -- Verse: A Python Library for Reasoning About Multi-agent Hybrid System Scenarios -- 1 Introduction -- 2 Overview of Verse -- 3 Scenarios in Verse -- 4 Verse Scenario to Hybrid Verification -- 5 Experiments and Use Cases -- 6 Related Work -- 7 Conclusions and Future Directions -- References -- Synthesis -- Counterexample Guided Knowledge Compilation for Boolean Functional Synthesis -- 1 Introduction -- 2 A Motivating Example -- 3 Preliminaries and Notation -- 4 A New Knowledge Representation for Skolem Functions -- 5 Towards Synthesizing the Skolem Basis Vector -- 6 Counterexample-Guided Rectification.<br>7 Implementation and Experiments. |
| Sommario/riassunto | This open access proceedings set constitutes the refereed proceedings of the 35th International Conference on Computer Aided Verification, CAV 2023, which was held in Paris, France, in July 2023. . |

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| Record Nr. | UNINA9910483304303321 |
| Autore | Li Keqiu |
| Titolo | Network and Parallel Computing : IFIP International Conference, NPC 2007, Dalian, China, September 18-21, 2007, Proceedings / / edited by Keqiu Li, Chris Jesshope, Hai Jin, Jean-Luc Gaudiot |
| Pubbl/distr/stampa | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2007 |
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| Edizione | [1st ed. 2007.] |
| Descrizione fisica | 1 online resource (XVIII, 562 p.) |
| Collana | Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4672 |
| Disciplina | 004.35 |
| Soggetti | Computer networks<br>Algorithms<br>Software engineering<br>Application software<br>Multimedia systems<br>Operating systems (Computers)<br>Computer Communication Networks<br>Software Engineering<br>Computer and Information Systems Applications<br>Multimedia Information Systems<br>Operating Systems |

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| 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 | Network Applications -- On a High-Order Compact Scheme and Its Utilization in Parallel Solution of a Time-Dependent System on a Distributed Memory Processor -- Dynamic Multi-resource Advance Reservation in Grid Environment -- A Novel Adaptive Proxy Certificates Management Scheme in Military Grid Environment -- A Scheduling Model for Maximizing Availability with Makespan Constraint Based on Residual Lifetime in Heterogeneous Clusters -- A VO-Based Two-Stage Replica Replacement Algorithm -- Grid Scheduling Optimization Under Conditions of Uncertainty -- A Dynamic Adjustment Strategy for File Transformation in Data Grids -- Spatial Map Data Share and Parallel Dissemination System Based on Distributed Network Services and Digital Watermark -- Managing Email Overload with an Automatic Nonparametric Clustering Approach -- On the Routing Algorithms for Optical Multi-log2N Networks -- Overall Blocking Behavior Analysis on Banyan-Based Optical Switching Networks Under Crosstalk Constraint -- SW-Uinta: A Small-World P2P Overlay Network -- Unmanned Navigation of the 1/10 Vehicle Using U-SAT -- Energy-Efficient Scheduling Fixed-Priority Tasks with Preemption Thresholds on Variable Voltage Processors -- Estimation of Absolute Positioning of Mobile Robot Using U-SAT -- A Collaborative Service Discovery and Service Sharing Framework for Mobile Ad Hoc Networks -- Proteus: An Architecture for Adapting Web Page on Small-Screen Devices -- EEGFGR: An Energy-Efficient Greedy-Face Geographic Routing for Wireless Sensor Networks -- An Improved Bandwidth-Use Method on IEEE 802.11e Standard over Wireless LAN -- Maximum Life-Time Localized Broadcast Routing in MANET -- Network Technologies -- Modulation Multiplexing Distributed Space-Time Block Coding for Two-User Cooperative Diversity in Wireless Network.-Modified Widest Disjoint Paths Algorithm for Multipath Routing -- Optimum Broadcasting Algorithms in (n, k)-Star Graphs Using Spanning Trees -- Link Protocol Based on DS-CDMA with MUD for Decentralized All-Connected Wireless Network -- A Small-World Optimization Algorithm Based and ABC Supported QoS Unicast Routing Scheme -- Algorithms for the m-Coverage Problem and k-Connected m-Coverage Problem in Wireless Sensor Networks -- A Novel Multiple Access Protocol with QoS Support for Mobile Ad Hoc Networks -- Dual-Residue Montgomery Multiplication -- Design and Performance Analysis of CZML-IPSec for Satellite IP Networks -- A Novel Group Key Management Based on Jacobian Elliptic Chebyshev Rational Map -- Scheme of Defending Against DDoS Attacks in Large-Scale ISP Networks -- Security Analysis of the Authentication Modules of Chinese WLAN Standard and Its Implementation Plan -- Restoration Design in IP over Reconfigurable All-Optical Networks -- SIPS: A Stateful and Flow-Based Intrusion Prevention System for Email Applications -- Design and Evaluation of Parallel String Matching Algorithms for Network Intrusion Detection Systems -- Object-Based Storage Model for Object-Oriented Database -- HPRD: A High Performance RDF Database -- A Direction to Avoid Re-encryption in Cryptographic File Sharing -- Network and Parallel Architectures -- Exploit Temporal Locality of Shared Data in SRC Enabled CMP -- Architectural Implications of Cache Coherence Protocols with Network Applications on Chip MultiProcessors -- The |

SKB: A Semi-Completely-Connected Bus for On-Chip Systems -- An Instruction Folding Solution to a Java Processor -- HNDP: A Novel Network Distance Prediction Mechanism -- Analytical Model of IEEE 802.15.4 Non-beacon Mode with Download Traffic by the Piggyback Method -- A Novel Algorithm for Estimating Flow Length Distributions–LSM -- Performance Prediction for Mappings of Distributed Applications on PC Clusters -- Communication–Prediction of Scouting Switching in Adaptively-Routed Torus Networks -- The Implementation and Evaluation of a Low-Power Clock Distribution Network Based on EPIC -- Parallel and Distributed Software -- Service Process Improvement Based on Exceptional Pattern Analysis -- An Improved Fuzzy Support Vector Machine for Credit Rating -- A Cost-Aware Parallel Workload Allocation Approach Based on Machine Learning Techniques -- A Hierarchical Programming Model for Large Parallel Interactive Applications -- Design of a Simulator for Mesh-Based Reconfigurable Architectures -- Keynote Speeches -- Personal Grid -- On Parallel Models of Computation -- Challenges in Dependability of Networked Systems for Information Society -- Reference Architectural Styles for Service-Oriented Computing.

Sommario/riassunto

Welcome to the proceedings of the 2007 IFIP International Conference on Network and Parallel Computing (NPC 2007) held in Dalian, China. NPC has been a premier conference that has brought together researchers and pr- titioners from academia, industry and governments around the world to advance the theories and technologies of network and parallel computing. The goal of NPC is to establish an international forum for researchers and practitioners to present their - cellent ideas and experiences in all system fields of network and parallel computing. The main focus of NPC 2007 was on the most critical areas of network and parallel computing: network applications, network technologies, network and parallel arc- tectures, and parallel and distributed software. In total, the conference received more than 600 papers from researchers and prac- tioners from over 20 countries and areas. Each paper was reviewed by at least three internationally renowned referees and selected based on its originality, significance, correctness, relevance, and clarity of presentation. Among the high-quality subm- sions, only 53 regular papers were accepted by the conference. All of the selected conference papers are included in the conference proceedings. After the conference, some high-quality papers will be recommended to be published in a special issue of several international journals.