1. Record Nr. UNINA9910349300803321

Titolo	Computer Safety, Reliability, and Security : 38th International Conference, SAFECOMP 2019, Turku, Finland, September 11–13, 2019, Proceedings / / edited by Alexander Romanovsky, Elena Troubitsyna, Friedemann Bitsch
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-26601-X
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XXI, 316 p. 320 illus., 92 illus. in color.)
Collana	Programming and Software Engineering, , 2945-9168 ; ; 11698
Disciplina	005.8
Soggetti	Computer engineering Computer networks Artificial intelligence Software engineering Computer vision Microprogramming Computer Engineering and Networks Artificial Intelligence Software Engineering Computer Vision Control Structures and Microprogramming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Formal Verification -- Towards Zero Alarms in Sound Static Analysis of Finite State Machines -- Graceful Degradation Design Process for Autonomous Driving System -- Formal Verification of Memory Preservation of x86-64 Binaries -- Autonomous Driving -- Brace Touch: a Dependable, Turbulence-Tolerant, Multi-Touch Interaction Technique for Interactive Cockpits -- Fitness Functions for Testing Automated and Autonomous Driving Systems -- A SysML Profile for Fault Trees — linking safety models to system design -- Safety and Reliability Modeling -- Spectrum-Based Fault Localization in Deployed Embedded Systems with Driver Interaction Models -- Forecast Horizon

for Automated Safety Actions in Automated Driving Systems -- Digital Forensics in Industrial Control Systems -- Security Engineering and Risk Assessment -- Efficient Model-level Reliability Analysis of Simulink Models -- Increasing Trust in Data-Driven Model Validation - A Framework for Probabilistic Augmentation of Images and Meta-Data Generation using Application Scope Characteristics -- A Pattern for Arguing the Assurance of Machine Learning in Medical Diagnosis Systems -- Safety Argumentation -- BACRank: Ranking Building Automation and Control System Components by Business Continuity Impact -- Model-Based Run-Time Synthesis of Architectural Configurations for Adaptive MILS Systems -- Dynamic risk assessment enabling automated interventions for medical cyber-physical systems -- Verification and Validation of Autonomous Systems -- Practical Experience Report: Engineering Safe Deep Neural Networks for Automated Driving Systems -- Autonomous Vehicles Meet the Physical World: RSS, Variability, Uncertainty, and Proving Safety -- Automated Evidence Analysis of Safety Arguments using Digital Dependability Identities -- Interactive Systems and Design Validation -- SafeDeML: On Integrating the Safety Design into the System Model -- Towards Trusted Security Context Exchange Protocol for SDN based Low Latency Networks -- Devil’s in the detail:Through-life safety and security co-assurance using SSAF.

Sommario/riassunto

This book constitutes the proceedings of the 38th International Conference on Computer Safety, Reliability and Security, SAFECOMP 2019, held in Turku, Finland, in September 2019. The 16 full and 5 short papers included in this volume were carefully reviewed and selected from 65 submissions. They were organized in topical sections named: formal verification; autonomous driving; safety and reliability modeling; security engineering and risk assessment; safety argumentation; verification and validation of autonomous systems; and interactive systems and design validation. .