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Soggetti	Computer organization Artificial intelligence Software engineering Optical data processing Microprogramming Computer Systems Organization and Communication Networks Artificial Intelligence Software Engineering/Programming and Operating Systems Image Processing and Computer Vision Control Structures and Microprogramming
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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. .