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Nota di contenuto	Intro -- Preface -- Organization -- Contents -- 19th International ERCIM/EWICS Workshop on Dependable Smart Embedded Cyber-

Physical Systems and Systems-of Systems (DECSoS 2024) -- 19th International Workshop on Dependable Smart Cyber-Physical Systems and Systems-of-Systems (DECSoS 2024) -- 1 Introduction -- 2 This Year's Workshop -- Organization -- International Program Committee 2024 -- A Systems Viewpoint on the Integration of Subsystems Developed with Heterogeneous Safety Standards -- 1 The Need for Integration -- 2 Why Existing Standards Don't Play Nicely Together -- 2.1 How Existing Standards Differ -- 2.2 Current Approaches to Importance Metrics -- 2.3 Summary of Integration Challenges -- 3 Addressing the Integration Issue -- 3.1 Existing Approaches -- 3.2 The IEC 63187 Approach -- 4 Conclusion -- References -- Intelligent Decision-Making in Lane Detection Systems Featuring Dynamic Framework for Autonomous Vehicles -- 1 Introduction -- 2 Background -- 2.1 AI-Based Approaches -- 2.2 Non AI-Based Approaches -- 2.3 Hybrid Approaches -- 3 Proposed Dynamic Framework -- 3.1 Experimental Setup - Vehicle Demonstrator -- 3.2 Conventional Algorithm -- 3.3 PilotNetC Architecture -- 4 Results -- 4.1 Results for Conventional Algorithms -- 4.2 Results for PilotNetC -- 4.3 The Dynamic Framework -- 5 Conclusion -- References -- Security and Safety in Urban Environments: Evaluating Threats and Risks of Autonomous Last-Mile Delivery Robots -- 1 Introduction -- 2 The Last-Mile Robot in Our Case Study -- 3 Case Study Modeling and Analysis -- 3.1 Extended Multi-level Model -- 3.2 Attack Types -- 4 Analysis of Attack Types and Human-Safety Levels -- 5 Ideas for a Theoretical Approach -- 6 Summary and Outlook -- References -- Safe Road-Crossing by Autonomous Wheelchairs: A Novel Dataset and Its Evaluation -- 1 Introduction -- 2 Related Works. 3 Reference Scenario for Safe Road-Crossing -- 4 Design of the Danger Function -- 5 Dataset Generation -- 5.1 Lab Environment -- 5.2 Data Collection and Preprocessing -- 5.3 Data Elaboration and Sensor Fusion -- 6 Experimental Evaluation -- 7 Threats to Validity -- 8 Conclusions -- References -- Automating an Integrated Model-Driven Approach to Analysing the Impact of Cyberattacks on Safety -- 1 Introduction -- 2 Safety-Critical Networked Control Systems -- 3 Security-Explicit SysML Modelling of NCSs -- 3.1 SysML Modeling of NCSs -- 3.2 Modelling Cyberattacks in SysML -- 4 Modelling and Refinement in Event-B -- 5 Generation of Event-B Specification from SysML Model -- 5.1 Architecture of SysMLToEventB -- 5.2 The Tool-Chain -- 5.3 Tool Validation -- 6 Related Work and Conclusions -- References -- Securing Web Access: PUF-Driven Two-Factor Authentication for Enhanced Protection -- 1 Introduction -- 1.1 Contributions -- 2 Related Work -- 3 Preliminaries -- 3.1 Physically Unclonable Function -- 3.2 Network Model -- 3.3 Threat Assumptions -- 4 Two-Factor User Authentication Using PUF -- 4.1 Enrollment Phase -- 4.2 Authentication Phase -- 5 Security Analysis -- 5.1 Formal Security Analysis -- 5.2 Informal Analysis -- 6 Experimental Validation and Performance Analysis -- References -- Enhancing Tunnel Safety with Artery V2X Simulation for Real-Time Risk Assessment -- 1 Introduction -- 2 Related Work -- 3 Artery-Based Risk Assessment Framework -- 3.1 Artery Simulation Framework (Upper Part) -- 3.2 Data Manipulation and Risk Assessment (Lower Part) -- 4 Case Study: Simulation-Based Risk Assessment in Zederhaus Tunnel -- 4.1 Breakdown Scenario: Artery and SUMO Model -- 4.2 Breakdown Scenario: Risk Assessment -- 5 Conclusion and Future Work -- References -- Detecting and Mitigating Errors in Neural Networks -- 1 Introduction -- 2 State of the Art. 2.1 Error Correcting Memory (ECC Memory) -- 2.2 Memory Tagging -- 2.3 Storage Reduction -- 2.4 2-D ECC/2-D Cyclic Redundancy Check

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Sommario/riassunto

This book constitutes the proceedings of the Workshops held in conjunction with the 43rd International Conference on Computer Safety, Reliability, and Security, SAFECOMP 2024, which took place in Florence, Italy, during September 2024. The 36 papers included in this book were carefully reviewed and selected from a total of 64 submissions to the following workshops: DECSoS 2024 – 19th Workshop on Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems SASSUR 2024 - 11th International Workshop on Next Generation of System Assurance Approaches for Critical Systems TOASTS 2024 – Towards A Safer Systems' Architecture Through Security WAISE 2024 – 7th International Workshop on Artificial Intelligence Safety Engineering.
