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Nota di contenuto	Intro -- Preface -- Organization -- Workshop Editors -- Contents -- Workshop on Software Engineering for Resilient Systems (SERENE) -- International Workshop on Software Engineering for Resilient Systems (SERENE) -- Workshop Description -- Organization -- General Chairs -- Steering Committee -- Organizing Committee -- Program Committee -- Web Chair -- AuditTrust: Blockchain-Based Audit Trail for Sharing Data in a Distributed Environment -- 1 Introduction -- 2 Use Case: Problem Statement and Motivation -- 3 Related Work -- 4 AuditTrust: Design and Reference Architecture -- 4.1 Reference Architecture -- 4.2 Security Mechanisms -- 5 Prototype Implementation and Evaluation -- 5.1 Evaluation -- 6 Conclusion -- References -- Formal Analysis Approach for Multi-layered System Safety and Security Co-engineering -- 1 Introduction -- 2 Multi-layered System Conceptual Model -- 3 Logical Specification -- 3.1 Formal Syntax for Multi-layered System Specification and Properties -- 3.2 Safety and Security Interplay -- 4 Formal Specification and Analysis in Event-B -- 5 Related Work and Positioning -- 6 Conclusion and Perspectives -- References -- Workshop on Dynamic Risk management for Autonomous Systems (DREAMS) -- First Workshop on Dynamic Risk management for Autonomous Systems (DREAMS) -- Workshop

Description -- Organization -- Program Chairs -- Program Committee -- Additional Reviewer -- Case Study Analysis of STPA as Basis for Dynamic Safety Assurance of Autonomous Systems -- 1 Introduction -- 2 STAMP and STPA -- 3 Application and Results -- 4 Requirement Analysis -- 5 Conclusion -- References -- Continuous, Systematic Risk Mapping of Roads as an Input for Dynamic Risk Management (DRM) in Autonomous Systems -- 1 Germany-Wide EDDA+Road Hazard Map - Data Sources and Method of Calculation -- 2 Data Usage for EDDA+ Road Hazard Map.

2.1 Use Cases for Autonomous Driving -- 2.2 Further Use Cases for Road Users and Industry -- 2.3 Use Cases for Local Authorities and the Police -- 2.4 Current Developments of EDDA+ -- 3 Project Partners -- References -- Workshop on Artificial Intelligence for RAILwayS (AI4RAILS) -- Workshop on Artificial Intelligence for RAILwayS (AI4RAILS) -- Workshop Description -- Organization -- Workshop Chairs and Organizers -- Steering Committee -- Technical Program Committee -- A Literature Review for the Application of Artificial Intelligence in the Maintenance of Railway Operations with an Emphasis on Data -- 1 Introduction -- 2 Methodology -- 3 Literature Review -- 3.1 Papers Overview -- 3.2 Papers Review -- 4 Discussion -- 5 Conclusion -- References -- Synthetic Data Generation for Condition Monitoring of Railway Switches -- 1 Introduction -- 1.1 Motivation: Anomaly Detection for Railway Switches -- 1.2 Challenge: Sampling from a Complex High-Dimensional Distribution -- 2 Generation Method and Hyperparameters -- 2.1 Method Description -- 2.2 Hyperparameters -- 3 Applications -- 3.1 Scenario 1: Replicate the Observed Distribution -- 3.2 Scenario 2: Extrapolate to Unseen Temperatures -- 4 Discussion -- References -- AID4TRAIN: Artificial Intelligence-Based Diagnostics for TRAINS and INDUSTRY 4.0 -- 1 Introduction -- 2 Problem Statement -- 3 Proposed Framework -- 4 The AI-Based Log Analyzer -- 5 Preliminary Case Study -- 6 Related Work -- 7 Conclusion -- References -- Railway Digital Twins and Artificial Intelligence: Challenges and Design Guidelines -- 1 Introduction -- 2 Digital Twins -- 3 An Overview of DTs and AI in Railways -- 4 Challenges and Open Issues -- 5 Guidelines for DT Design -- 6 Conclusions -- References -- A K-Prototype Clustering Assisted Hybrid Heuristic Approach for Train Unit Scheduling -- 1 Introduction -- 2 Literature Review.

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