Research outputs

**RAMS never dies! Applying the approach to IT/OT converged systems**

**Designing a problem analysis toolkit in the context of humanitarian engineering**

**Supporting maintenance operators using augmented reality decisionmaking: visualize, guide, decide & track**

**Educating for Integrity: Blending the liberal arts and humanitarian engineering**

**Design for an integrated knowledge management policy for railway maintenance: An industrial synopsis**

**Integrating challenge-based learning into a mobile classroom environment for Jordanian camp refugees: a position paper**

**Disentangling large scale technological projects: Learning from ERTMS roll-out case study in the Netherlands**

**Improving maintainability of the battery storage system in electric aircrafts**

**Facilitating digital collaboration through knowledge management: a case study**

**Integrating the maintenance process: a framework to bridge design for maintenance to prescriptive maintenance**

**Encouraging a Modal Shift to Passenger Railway Transportation: A Case Study in Adaptable Rolling Stock Interior Design**
Moerman, J-J., Van Heusden, S., Matheussen, B. & Martinetti, A., 6 Aug 2022, In: *Sustainability (Switzerland).* 14, 15, 9701.

**EDUBOX: A Self-Contained Engineering Learning Environment for Underserved Communities**
Investigating Interdependencies Between Key Features of Lessons Learned: An Integral Approach for Knowledge Sharing

Troubleshooting: a dynamic solution for achieving reliable fault detection by combining augmented reality and machine learning

Foreword to the 10th International Through-life Engineering Services Conferences (TESConf2021): The need for sustainable Through-life Engineering Services in the era of Industry 4.0 and beyond

Self-engineering: possibilities for maintenance operations in the mining machines industry

Mapping the Needs of Design for Maintenance in Electric Aviation

Lessons Learned from System Integration: A Strategic Synopsis

Redefining Safety in Light of Human-Robot Interaction: A Critical Review of Current Standards and Regulations

Gone in 2s: a deep dive into perfection analysing the collaborative maintenance pitstop of Formula 1

The need for ecosystem 4.0 to support maintenance 4.0: An aviation assembly line case

How to Make Augmented Reality a Tool for Railway Maintenance Operations: Operator 4.0 Perspective

Augmented reality for IT/OT failures in maintenance operations of digitized trains: Current status, research challenges and future directions

Ready, trainer... one*! discovering the entanglement of adaptive learning with virtual reality in industrial training: a case study

Do you have confidence in how your rolling stock has been maintained? a blockchain-led knowledge sharing platform for building trust between stakeholders
Design for Sustainable Public Transportation: LCA-Based Tooling for Guiding Early Design Priorities

Empowering Predictive Maintenance: A Hybrid Method to Diagnose Abnormal Situations

Optimizing Student-Driven Learning (SdL) through a Framework Designed for Tailoring Personal Student Paths

Design of a Framework for Integrating Environmentally Sustainable Design Principles and Requirements in Train Modernization Projects

Applications and Challenges of Maintenance and Safety Engineering in Industry 4.0

Maintenance 4.0: Where Are We? A Systematic Literature Review

Reflections on the Adoption of Virtual Adaptive Learning Tool for Industrial Training

Tacit Knowledge Sharing for System Integration: A case of Netherlands Railways in Industry 4.0

Big Data Analytics for Maintaining Transportation Systems

Design for Maintenance of Infrastructures: The Lesson of the Morandi Bridge

Smart Asset Management or Smart Operation Management? The Netherlands Railways Case

Vocational Education and Training in Transportation Maintenance 4.0: A Note
Reflections on the Limited Pervasiveness of Augmented Reality in Industrial Sectors

A New Adaptive E-Learning Concept for Multidisciplinary Learning Environments

Towards an Industry 4.0-Based Maintenance Approach in the Manufacturing Processes

Transportation Systems: Managing Performance through Advanced Maintenance Engineering

Simulating mechanical stress on a micro Unmanned Aerial Vehicle (UAV) body frame for selecting maintenance actions

Wheel maintenance in rolling stock: safety challenges in the defect detection process

Non-Natural Born lecturers: How to survive teaching in Dutch higher education

Flying asset: Framework for developing scalable maintenance program for Unmanned Aircraft Systems (UAS)

Evolution of safety in industry 4.0: Future opportunities adopting resilience and antifragility engineering and virtual and augmented reality

Emergency response in large public facilities: thoughts and reflections on the unique Dutch Campus University

Safety I-II, Resilience and Antifragility Engineering: A debate explained through an accident occurred on a Mobile Elevating Work Platform

Approach to solving mining machine selection problem by using grey theory

Storytelling as a strategy in managing complex systems: Using antifragility for handling an uncertain future in reliability

There is no spoon: Applying virtual reality for maintenance training of rolling stock technicians
Traditional Learning vs Virtual Learning in maintenance operations thoughts and reflections from a safety perspective

Beyond RAMS Design: Towards an Integral Asset and Process Approach


Beyond Accidents: A Back-Analysis on Conveyor Belt Injury for a Better Design for Maintenance Operations

Gamification in teaching maintenance engineering: a Dutch experience in the rolling stock management learning

Shaping the future maintenance operations: reflections on the adoptions of Augmented Reality through problems and opportunities

Operation, Safety and Human: Critical Factors for the Success of Railway Transportation

"I'll be back": a deep analysis on mass product recalls of non-food products

Remote pilot aircraft system (RPAS): Just culture, human factors and learnt lessons

Initial spare parts assortment decision making for rolling stock maintenance: a structured approach

Activities

Finding our Bearings
Konstantinos Nizamis (Participant) & Alberto Martinetti (Participant)
1 Dec 2021 → 31 May 2022

Light-Based Signaling Using Philips Hue Lighting to Enhance Entertainment Immersion
Konstantinos Nizamis (Examiner), Geke Dina Simone Ludden (Examiner) & Alberto Martinetti (Examiner)
31 Aug 2021

Evolution of safety in Industry 4.0: procedures, thoughts and words
Alberto Martinetti (Speaker)
24 May 2018
Projects