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Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Keynotes -- Life-Cycle Probabilistic Multi-objective Optimum SHM Planning -- 1 Introduction -- 2 Framework for Life-Cycle Probabilistic Multi-objective Optimum SHM Planning -- 3 Objectives for Probabilistic Optimum SHM Planning -- 4 Multi-objective Optimization and Decision Making -- 5 Updating with Monitored Data -- 6 Conclusions -- References -- Toward a More Resilient Road Infrastructure -- 1 Introduction -- 2 The Benefit of Transportation Infrastructure -- 3 Measuring Resilience -- 3.1 Functionality -- 3.2 Safety and Environmental Impact During Recovery -- 3.3 Consequences of Disruptive Event -- 3.4 Maintenance and Improvement Interventions -- 3.5 Costs -- 3.6 Uncertainty -- 4 Measures to Improve Resilience -- 4.1 Measures to Improve Robustness -- 4.2 Measures to Improve Redundancy -- 4.3 Measure to Improve Rapidity of Recovery -- 4.4 Resourcefulness -- 5 Case Study -- 6 Conclusion -- References -- Resilience, Robustness and Redundancy of Infrastructure System -- Aerodynamic Shape Optimization of Long-Span Bridges -- 1 Introduction -- 1.1 Flutter Instability Theory -- 2 Fundamental Studies -- 2.1 Stability Analysis of the Prediction Method -- 3 Reliability-Based Design Optimization -- 4 Summary -- 4.1 Discussion -- Reference -- Computational Investigations on the In-Plane Capacity of a URM Wall: Effect of Material Uncertainty -- 1 Introduction -- 2 Discontinuous Presentation and Analysis of URM Walls -- 3 Validation of the Proposed Computational Modelling Strategy -- 4 Data Preparation for Nonspatial and Spatial Probabilistic Analysis -- 5 Results of the Probabilistic Analysis -- 5.1 Nonspatial Probabilistic Analysis -- 5.2 Spatial Probabilistic Analysis -- 6 Conclusions -- References -- Framework for Resilience Assessment as Decision Support for Traffic Infrastructure Operators. 1 Introduction -- 2 Description of the Framework -- 2.1 Hazards -- 2.2 Influence Characteristics -- 2.3 Hazard Potential -- 2.4 Definition of Resilience Indicators -- 3 Visualisation -- 4 Conclusion -- References -- Influence of Stud Shear Connectors Fatigue on the Entire Reliability of Composite Bridge Superstructure -- 1 Introduction -- 2 Model Analysis -- 2.1 Structural Model -- 2.2 The Dependence of the Joint Elements Stiffness on the Number of Loading Cycles -- 2.3 Equivalent Load Determination Method -- 2.4 Algorithm of Analysis and Clustering of the Loading Process -- 2.5 Parameters of the Probabilistic Calculation -- 3 Results and Discussion -- 4 Conclusion -- References -- Surrogate Model Approaches for the Evaluation of Structural Safety of Suspended Ceilings -- 1 Introduction -- 1.1 General -- 1.2 Suspended Ceilings -- 1.3 Direct Fastening -- 1.4 Redundant Fastening -- 1.5 Stratified Sampling Methods -- 1.6 Surrogate Model -- 2 Materials and Methods -- 2.1 Experimental Setup -- 2.2 Numerical Modeling -- 2.3 Simplified Model -- 3 Results and Discussion -- 4 Conclusions -- References -- Understanding Corrosion in Restored Concrete Zones Through Sensor Data Analysis -- 1 Introduction -- 2 Methodology -- 2.1 Electric Resistance as an Indicator of Durability -- 2.2 Stochastic Degradation Model -- 3 Application Description -- 4 Results and Discussion -- 5 Conclusions -- References -- Risk Assessment and Management -- Application of Structure-From-Motion Multi-view Stereo (SfM-MVS) Photogrammetry in First Response Inspection of Distressed Buildings --

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and Portfolio Construction: A Case Study Based on the EU-EV Risk Model -- 1 Introduction -- 2 Methodology -- 2.1 Stock Clustering with EU-EV Risk Attributes.
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2.1 Introduction.

Sommario/riassunto

This volume presents the proceedings of the 20th International Probabilistic Workshop (IPW), which was held in Guimarães, Portugal on May 8-10, 2024. Probabilistic methods are currently of crucial importance for research and developments in the field of engineering, which face challenges presented by new materials and technologies and rapidly changing societal needs and values. Contemporary needs related to, for example, performance-based design, service-life design, life-cycle analysis, product optimization, assessment of existing structures and structural robustness give rise to new developments as well as accurate and practically applicable probabilistic and statistical engineering methods to support these developments. These proceedings are a valuable resource for anyone interested in contemporary developments in the field of probabilistic engineering applications.