Preliminary Program, Status: June 29, 2017

Please NOTE:
Final papers will be scheduled for presentation only after the registration fee has been paid in full. If full payment has not been received by 30 June 2017, the paper will NOT be scheduled for presentation and it will not be included in the Conference Proceedings.
Each paper needs one registration, each participant may present only one paper. This preliminary program contains all those presentations for which a registration has been received by the ICOSSAR Secretariat as of June 29, 2017, 15:00 UTC. This totals to 358 paid contributions. We have received, however, more than 400 final manuscripts. So several additions to the program may still be anticipated.
Location - TU Wien

- Freihaus
- Audimax
- Kuppelsaal
- Metro

7 min walk
4 min walk

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Program Overview

Sunday, 6 August 2017
15:00–18:00 Registration (Kuppelsaal)
18:00–20:00 Ice Breaker Reception (Kuppelsaal)

Monday, 7 August 2017
08:00–16:00 Registration (Freihaus)
08:30–09:00 Opening Ceremony (Audimax)
09:00–09:50 Freudenthal Lecture - Ton Vrouwenvelder (Audimax)
10:00–10:30 Coffee Break (Freihaus)
10:30–12:30 Parallel Sessions (Freihaus)
12:30–13:30 Lunch Break (Freihaus)
13:30–15:30 Parallel Sessions (Freihaus)
15:30–16:00 Coffee Break (Freihaus)
16:00–18:00 Parallel Sessions (Freihaus)

Tuesday, 8 August 2017
08:30–16:00 Registration (Freihaus)
09:00–09:50 Keynote Lecture - Ray Daddazio (Audimax)
10:00–10:30 Coffee Break (Freihaus)
10:30–12:30 Parallel Sessions (Freihaus)
12:30–13:30 Lunch Break (Freihaus)
13:30–15:30 Parallel Sessions (Freihaus)
15:30–16:00 Coffee Break (Freihaus)
16:00–18:00 Parallel Sessions (Freihaus)

Wednesday, 9 August 2017
08:30–16:00 Registration (Freihaus)
09:00–09:50 Keynote Lecture - Paolo Gardoni (Audimax)
10:00–10:30 Coffee Break (Freihaus)
10:30–12:30 Parallel Sessions (Freihaus)
12:30–13:30 Lunch Break (Freihaus)
13:30–15:30 Parallel Sessions (Freihaus)
15:30–16:00 Coffee Break (Freihaus)
16:00–18:00 Parallel Sessions (Freihaus)
20:00–22:00 Conference Banquet (City Hall)

Thursday, 10 August 2017
08:30–12:30 Registration (Freihaus)
09:00–09:50 Keynote Lecture - Mahesh Pandey (Freihaus)
10:00–10:30 Coffee Break (Freihaus)
10:30–12:30 Parallel Sessions (Freihaus)
12:30–13:30 Lunch Break (Freihaus)
13:30–15:30 Parallel Sessions (Freihaus)
15:30–16:00 Closing Ceremony (Freihaus)
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Probabilistic calibration of material models from limited data and its influence on structural response (7282)
Bangalore Satish A., Zhang J., Woelke P., Shields M.

Interval finite elements with spatially varying uncertainties (7693)
Barrera O., Romeo E., Sofi A.

Efficient Computation of Upper Probabilities of Failure (7393)
Fetz T.

A Fuzzy Logic Approach to Stochastic 1D Site Response Analysis accounting for Soil Uncertainties (7862)
Tombari A., Stefanini L.

PCE-based imprecise Sobol’ indices (7238)
Schöbi R., Sudret B.

A nested collocation algorithm for mixed aleatory and epistemic uncertainties using a probability-box approach (7407)
Dannert M.M., Fau A., Broggi M., Nackenhorst U., Beer M.

A two-level FORM approach for estimating reliability intervals under p-box input definition (7155)
Hurtado J.E., Alvarez D., Ramírez J.

Reliability Analysis on Complex Systems with Common Cause Failures (7419)
Feng G., Patelli E., Beer M., Coolen F.P.

Narrower bounds on the failure probability than those estimated by random set theory (7130)
Alvarez D., Hurtado J.E., Ramírez J.

History Matching with Robust Predictive Metamodels (7431)
Sadeghi J., Patelli E.

Estimating Rare-event Probabilities Without Data (7447)
Ferson S.

MS05 - Uncertainty quantification and structural reliability for the offshore environment
Monday, 7 August 2017

Unique US Code Considerations in the Nascent Offshore Wind Industry (7510)
Foley B., Mechling III H.K.

Metamodeling of Hurricane-induced Conditions for Offshore Multi-Hazard Assessment (7684)
Qiao C., Myers A., Hajjar J., Arwade S., Pang W.

Reliability-Based Design of Suction Anchor Foundation for Floating Platforms (7371)
Nadim F., Shin Y., Liu Z., Zhang Y., de Vries M.H., Engelsen H.

Selection of Probability Distributions to Represent Simulated Hurricane Wind Data and its Applications (7645)
Rawal P., Pang W.

Spatial Wave Correlation in Multiline Anchor Systems for Floating Offshore Wind Turbines (7612)

Ultimate Limit State Fragility of Offshore Wind Turbines on Monopile Foundations (7463)
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OS01 - Surrogate models for uncertainty quantification, reliability and sensitivity analysis
Monday, 7 August 2017

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Anisotropic-kernel-based support vector regression for reliability assessment (7372)
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A Surrogate Concept of Multiple Deterministic Analyses of Non-linear Structures Excited by Dynamic Loadings (7556)
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An Adaptive Kriging Method for Solving Time-Variant Reliability-Based Design Optimization (8128)
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Multi-objective Optimization under Uncertainty Utilizing Kriging Modeling in Augmented Input Space (7536)
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Advances in Surrogate Modeling for Hurricane Risk Assessment: Storm Selection and Climate Change Impact (8162)
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A Generalized Wiener-Hermite Polynomial Expansion for Multivariate Gaussian Probability Measures (7594)
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Surrogate Models for Highway Bridge Networks and the Impact of their Uncertainty on Seismic Risk Estimates (7519)
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An adaptive method for solving stochastic equations based on interpolants over Voronoi cells (7326)
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Adaptive designs and sparse polynomial chaos expansions for structural reliability analysis (7303)
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Kriging-assisted Risk Optimization with Ranked Weighted Average Simulation (7059)
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OS03 - Reliability-based assessment/evaluation and decision-making procedures for the through-life management of existing concrete structures
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A Comparison of Sensitivity Analyses of Prestressed Composite Bridge (7874)
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Towards Effective General Probabilistic Model Representation (GPM) for Shear Resistance (7400)
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Probabilistic based, collected and analysed, practical and research based performance indicators (7679)
Matos J., Casas J.R., Fernandes S., Strauss A.

A new probability method of existing concretes’ durability assessment (7014)
Jitao Y., Hui G., Ren X.

TS01 - Systems/Infrastructure
Monday, 7 August 2017

Risk-Based Bridge Ranking Considering Transportation Network Performance (7994)
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Evaluation of Road Surface Irregularity using Accelerations Recorded by Car Navigation Systems (8026)
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Reliability Assessment of Interdependent Lifeline Systems (RAILS) and Systemic Importance Measures Using a Non-Simulation Method (7310)
Paredes R., Dueñas-Osorio L.

Chasing Ghosts: the Nature of Terrorism Threats and Risks to Infrastructure (7287)
Stewart M., Mueller J.

Robust Probabilistic Tsunami Hazard Prediction Through Bayesian Model Class Selection (6916)
De Risi R., Goda K.

TS03 - Geotechnical Problems
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Reliability analysis of earth dams sliding mechanism by stochastic finite element method based on construction data (8027)
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Analysis of longitudinal behaviour of sheet pile walls integrating spatial variability of the soil (7681)
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TS04 - Random Fields
Monday, 7 August 2017

Reliability analysis of size effect on flexural members with stochastic finite element method (7981)
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Random Fields in Bayesian Inference: Effects of the Random Field Discretization (7229)
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A new Karhunen-Loève expansion for high-dimensional random fields simulation (8223)
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Prediction of the Buckling Strength of CFS Members with Local Geometric Imperfection using Stochastic Kriging (8118)
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Comparison of particle placement schemes for discrete element models (7724)
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TS07 - Surrogate Models
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Seismic Global Reliability and Sensitivity Analysis of Structures Using PCE-Based Stochastic Response Surfaces (7960)
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TS10 - Codes and Code Development
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Approaches for an optimisation of partial safety factors for historic timber structures (7840)
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Target Reliability of Steel Silos (7853)
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Reliability-based optimization of quantiles for diagnoses of hydropower penstock pipes (7708)
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The Distribution of Maximum Loads Generated by Renewal Processes (7926)
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Practical Method for Load and Resistance Factors Using Shifted Lognormal Approximation (7411)
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A framework for estimating the implicit safety level of existing design codes (8083)
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International practice and standardization of the basis of structural design (7919)
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**TS11 - Life-Cycle Cost**

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Communicating Community Infrastructure Risks (7846)
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Life-cycle seismic loss assessment for RC frame structures in Bucharest, Romania (7521)
Pavel F., Vacareanu R., Coliba V., Calotescu I.

Probabilistic Cost Models and Computational Framework for Life-cycle Design of Buildings (8160)
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Influence of Ground Motion Duration on Seismic Life Cycle Cost Assessment of Structures (8242)
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**TS19 - Bridges**

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Finite Element Reliability Analysis for Deriving Flood Fragility Curves of Deteriorated Bridges Considering Scour (8087)
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Simplified MC Based Fragility Analysis Method for RC Piers (8102)
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Vulnerability Assessment of Smart Bridge Piers Due to Vehicle Collision (8180)
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Probabilistic load-bearing capacity analysis of the slab bridge made of prestressed concrete girders (8239)
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Sensitivity Analysis of Cable Location in Long-Span Cable-Stayed Bridge under Cable-Rupture Scenario (7781)
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**TS20 - Special Structures**

Monday, 7 August 2017

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Extreme response prediction of an offshore drilling riser system using a new method (7891)
Zhang X., Low Y.M., Koh C.G.

Probabilistic design and estimation of life of wind turbine components (7980)
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Experimental Study on Wave force Variation to Sea Levels of Large Circular Marine Structures (8347)
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Impact of modeling uncertainties on input probability distribution tails to rare event probability estimation, application to aerospace vehicle reliability assessment (8403)
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Reliability-based sensitivity analysis of aerospace systems under distribution parameter uncertainty using an augmented approach (8411)
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**TS21 - Computational Procedures**

**Monday, 7 August 2017**

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Is there any Strength in Numbers? On the Philosophy of FORM/SORM and Subset Sampling (8140)
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Two-D Poisson Process as a Peaks-Over-Threshold Model for Estimating Non-Gaussian Time Series Peaks (8447)
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A Time-Variant Reliability Analysis Method using Efficient Global Optimization and Polynomial Chaos Expansion (8124)
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An Unbiased Kriging Method for Structural Reliability Analysis (8112)
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Structural Risk Analysis based on Robustness and Fragility Indices (7144)
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**TS02 - Seismic Analysis**

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Uncertainty and Sensitivity of Loss Results in US Earthquake (USEQ™) Catastrophe Model (8255)
Uriz P., Seyhan E., Shome N., Rahnama M.

Hazard Compatible Stochastic Ground Motion Modelling (7845)
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A spectral-based stochastic ground motion model with a non-parametric time-modulating function (8148)
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Fragility Assessment of Liquid Storage Tanks under Seismic Loads by Integration of Two Software Packages (8004)
Lee S., Lee Y.J., Tak H.

Extraction of Building Damage due to 2016 Kumamoto Earthquake from PALSAR-2 Data (8040)
Yamazaki F., Liu W., Moya L.
Application of the Random Forests Machine Learning in Assessing the Post-Earthquake Structural Safety of Damaged Buildings (8043)
Zhang Y., Burton H., Sun H., Shokrabadi M.

Model parameter uncertainties and correlations: quantification and assessment of impacts on seismic collapse risk (7102)
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Energy-based Seismic Collapse Fragilities by Clustering-based Adaptive Sampling of Ground Motions (8260)
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Seismic Fragility Function for Ceilings: A Formulation Using Upper Floor Response Acceleration (8138)
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Effect of ground motion correlation on regional seismic loss estimation: application to Lima, Peru using a cross-correlated principal component analysis model (8125)
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Robust and Bayesian Parameter Estimation in Time Dependent Seismic Hazard Analysis (8052)
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Improved Reliability of Seismic Structures with Magnetorheological Dampers (7951)
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Resilient Isolated Bridges against Extreme Ground Motions and Deterioration of Isolators (7950)
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Stochastic Characterization of Post-Earthquake, Community-Scale Recovery (7873)
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Seismic vulnerability assessment of base-isolated liquid fuels tanks (8236)
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Probabilistic Seismic Assessment of Dry Storage Casks Based on Top Facet Displacement (8085)
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Analytically Derived Fragility Curves and Damage Assessment of Masonry Buildings (7475)
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Vulnerability Assessment Methodologies of Existing Structures and Further Improvement on the Reliability (8247)
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Use of Generalized Linear Models to capture seismic response heteroscedasticity of a four-story steel moment frame building (7731)
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Variance-based sensitivity analysis considering parameter uncertainties in modelling seismic response of a building structure (7740)
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MS03 - Stochastic engineering dynamics: recent advances & future challenges

Tuesday, 8 August 2017

Higher-order methods in stochastic structural dynamics: Are they necessary? (7281)
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On the Nonlinear Deterministic and Stochastic Dynamics of a Cable - Mass System with Time-Varying Length (7333)
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A Polynomial Matrix Theory Approach for Determining the Response of Structural Systems with Singular Coefficient Matrices (7270)
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Bridge Response Analysis with ARMA Simulated Wind Field (7544)
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Stochastic response determination and effective material properties of a class of one-dimensional mechanics problems (7305)
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Influence of non-structural components on Tail-equivalent linearization of seismic structures (7435)
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A Stochastic Dynamics Approach for Seismic Response Spectrum-Based Analysis of Hysteretic MDOF Structures (7573)
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Stochastic Response of Beams with Uncertain Crack Depth (8015)
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A Moore-Penrose frequency domain approach for stochastic response determination of structural systems with singular matrices (7426)
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MS04 - Design of complex systems and structures under uncertain conditions
Tuesday, 8 August 2017

Damage detection using multivariate autoregressive coefficients mapped on principal subspace (7605)
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Polynomial Chaos-Based Optimisation for a Tensile Membrane Structure under Uncertain Wind Forces (7258)
Dutta S., Ghosh S., Inamdar M.M.

Quantile-based optimization under uncertainties using bootstrap polynomial chaos expansions (7560)
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Hybrid Method for Accurate and Efficient Solution of RBDO Problems (7141)
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Modelling Uncertainty in Post-disruption Restoration for Enhancing Infrastructure Resilience (7356)
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Resilience-Based Measures for Importance Ranking of Interdependent Infrastructure Network Components Across Uncertain Disruption Scenarios (7299)
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Evolutionary algorithm for reliable and robust design applied to an aeronautical system (7291)
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Computation of Seismic Fragility Curves Using Artificial Neural Network Metamodels (7525)
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Computational Framework for Design of Structures with polymorphic uncertain Data (7332)
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Numerical Design of Reinforced Concrete Structures under Polymorphic Uncertain Conditions (7685)
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Resilient Design Framework to Blast and Extreme Fire Loading (7430)
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MS06 - Life-cycle reliability and risk of structural and infrastructure systems
Tuesday, 8 August 2017

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On Decision Support for Sustainability and Resilience of Infrastructure Systems (7387)
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Management of Fatigue Sensitive Structures under Uncertainty (7313)
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Time-variant Performance Indicators for Deteriorating Structures under Uncertainty (7139)
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Reliability analysis and updating of inspected ship structures subject to spatially variable corrosion (7399)
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Investigation of mitigation strategies to reduce storm surge impacts associated with oil infrastructures (7143)
Bernier C., Padgett J.E., Elliott J., Bedient P.

Generalized multivariate fragility functions with multiple damage states (7515)
Andriotis C., Papakonstantinou K.

Updating Life-Cycle Reliability of Corroded RC Bridges under Multiple Hazards Based on Inspection Data (7154)
Yanweerasak T., Pansuk W., Akiyama M., Frangopol D.M.

Infrastructure, Communities, and the Evolution of Vulnerability and Resilience Under Repeated Hazards (7450)
Reilly A., Guikema S., Tonn G., Zhai C.

Stochastic modelling of multiple deterioration processes (7437)
Jia G., Gardoni P., Trejo D.

Probabilistic Computational Framework for Optimum Inspection Planning using Objective Reduction Approach: Application to Ship Structures under Fatigue (7145)
Kim S., Frangopol D.M.

Resilience Assessment of Historic Centres: Methodology and Applications (7423)
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Probabilistic Performance Indicators for Structural Systems (7253)
Miao F., Ghosn M., Frangopol D.M.

OS02 - Infrastructure risk management and adaptation to changing climate conditions
Tuesday, 8 August 2017

Probabilistic Analysis of Climate Change Impacts and Adaptation for Power Pole Networks (7263)
Ryan P., Stewart M.

Implications of Combined Infrastructure Concentration and Interdependency for Extreme Event Recovery (9224)
Zimmerman R.

The Impact of Climate Change on Bridge Scour Reliability (7150)
Kallias A.N., Imam B.
OS05 - Advances in simulation-based uncertainty quantification and reliability assessment
Tuesday, 8 August 2017

FEM based uncertainty quantification for computational models of fiber-reinforced composite materials (7314)
Bhaduri A., Graham-Brady L., Shields M.

Efficient Earthquake Loss Estimation by Cross-entropy-based Adaptive Importance Sampling (7420)
Choi B.S., Byun J., Song J.

Dynamic series system reliability estimation based on closed loop Girsanov's controls (7146)
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