

| 19.6. Parallel sessions, Monday morning, 4 papers per session | | | | | | | | | | |
|---|---|--|--|---|--|---|---|--|---|--|
| 11:10-12:30 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Fundamental Issues in Risk Analysis and Management 1 | Advanced Safety Assessment Methodologies: extended PSA 1 | Accident Modelling 1 | Maintenance Modelling and Applications 1 | Resilience in critical infrastructures 1 | Assessment of Natural Hazards | Reliability in Land Transportation | Uncertainty Analysis 1 | Prognostics and System Health Management 1 | Wind Power Reliability |
| | 870 | 1117 | 859 | 823 | 1165 | 664 | 933 | 886 | 717 | 1009 |
| | Jiale Zhou, Kaj Hänninen, Krisitina Lundqvist, Luciana Provenzano | Andrej Prošek, Andreas Wielenberg, Horst Löffler, Emmanuel Raimond | Laura Savoldi, Roberto Bonifetto, Roberto Zanino | Huadong Mo, Giovanni Sansavini | Stian Antonsen, Lars Bodsberg, Jacob Kringen | Claudia Vivalda, Vittorio Verda, Andrea Carpignano, Cristiana Dell'Erba, Daniele Cagliero, Elisa Guelpa | Datian Zhou, A.G. Hessami, X. Yao | Luis G. Crespo, Daniel Giesy, Sean Kenny | Ceena Modarres, Anthony Coburger, Enrique Droguett, Mark Fuge | Maik Reder, Julio J. Melero |
| | An Ontological Interpretation of the Hazard Concept for Safety-Critical Systems | Methodology for Selecting Initiating Events and Hazards for Consideration in an Extended PSA | Analysis of a loss-of-flow accident (LOFA) in a tokamak superconducting Toroidal Field Coil | Performance-based maintenance of degraded control systems | User needs for resilience indicators in interconnected critical infrastructures | Forest Fire Risk Analysis Methods and Simulation Tools | Model based approach to Identifying Hazards for Modern Train Control System | Random predictor models with a nonparametric staircase structure | Computer Vision for Damage Recognition and Location Identification: A Deep Learning Based Approach | Time Series Data Mining for Analysing the Effects of Wind Speed on Wind Turbine Reliability |
| | 1144 | 1164 | 697 | 776 | 1170 | 1095 | 976 | 885 | 748 | 894 |
| | Andreas Hafver, Simen Eldevik, Ovidiu Valentin Drugan, Irena Jakopanec, Frank Børre Pedersen, Roger Flage, Terje Aven | Yves Guigueno, Emmanuel Raimond, Mirela Nitoi, Pascal Brac, Dominique Vasseur, Göran Hultqvist | Mohamed Zahran, Pu Xue, Moustafa Esa, B. C.Y. Bai, G.L. Su | Nuria C. Caballe, Inma T. Castro | Aleksandar Jovanovic, Flor Angela Quintero, Amrita Choudhary | Reidar Staupe-Delgado, Michael H. Glantz | Jozef Zurek, Mariusz Zieja, Jaroslaw Ziolkowski, Anna Borucka | Luis G. Crespo, Sean P. Kenny, Daniel P. Giesy | Moath Kassim, Gyunyoung Heo | Jinrui Ma, Antoine Grall, Mitra Fouladirad |
| | Risk-based- versus control-based safety philosophy in the context of complex systems | Summary of PSA End-Users views on extended PSA concept in the project ASAMPSA_E | On design of stiffened 3D-multi-cell for enhancing the vehicle crashworthiness and occupant safety | Performance measures for a system subject to degradation and sudden shocks | Use of safety-related indicators in resilience assessment of Smart Critical Infrastructures (SCIs) | Identifying Commonalities between Individual El Niño Events | Research of automotive vehicles operation process by using the Markov model | On the calculation and shaping of staircase random variables | A Benchmarking Study on Online Cross Calibration Techniques for Redundant Sensors | Deterioration modelling on wind turbine pitch control system |
| | 774 | 1158 | 1112 | 973 | 704 | 1030 | 819 | 929 | 772 | 1018 |
| | Simen Eldevik, Andreas Hafver, Irena Jakopanec, Frank Børre Pedersen | Emmanuel Raimond, Manorma Kumar, Horst Loeffler, Andreas Wielenberg | Paal Skjetne, Emlyn John Davies, Jan Erik Olsen, Frode Leirvik, Daniel Franklin Krause, Grim Eidnes | Tomás Grubessich, Pablo Viveros, Raúl Stegmaier, Fredy Kristjanpoller | Maren Maal, Kjersti Brattekkås, Kjell Olav Nystuen, Ronny Windvik | Katerina Sikorova, Ales Bernatik | L.S.Liu, Xiaojian Yi, Peng Hou, Yue-hua Lai, Jian Shi | Martorell Sebastián, Sánchez-Saez Francisco, Carlos Sofia, Villanueva José Felipe, Sánchez Ana Isabel | Matteo Davide Lorenzo Dalla Vedova, Pier Carlo Berri, Paolo Maggiore | Nurseda Yildirim Yurusen, Maik Reder, Julio J Melero |
| | Risk, Uncertainty, and "What if?" – A practical view on uncertainty and risk in the knowledge- and physical domain. | Objectives, challenges and development of multi-unit PSA – considerations from the ASAMPSA_E project | Comparison of Meso Scale Subsea gas Release With Multiphase Eulerian-Lagrangian CFD Model | Design of indicators of workshop utilization for a railway company of passengers transport | How to assess future security threats to critical infrastructure systems? Lessons learnt and best practices risk assessment of the ERTMS in Norway | Fire water: management system in Czech Republic | A New Reliability Analysis Method for Vehicle Control Systems with Three-State Electronic Units Based on Goal Oriented Methodology | A comparison of performance between order statistics and metamodeling in safety margins uncertainty quantification | On-board electromechanical servomechanisms affected by progressive faults: proposal of a smart GA model-based prognostic approach | Failure Event Definitions & their Effects on Survival and Risk Analysis of Wind Turbines |
| | | 921 | 836 | | 735 | | 861 | | 702 | 1046 |
| | | Kurt Decker, Hans Brinkman, Emmanuel Raimond | Roberto Zanino, Antonio Froio, Andrea Bertinetti, Laura Savoldi, Fabio Cismondi, Sergio Ciattaglia | | David Rehak, Simona Slivkova, Veronika Brabcova | | Tiago Alves Silva, João Batista Camargo Junior, Jamil Kalil Naufal Junior, Lúcio Flávio Vismari, Rafia Inam, Carlos Renato Belo Azevedo | | Genta Kikuchi, Makoto Sato, Kohei Maruchi, Masanori Yabuki | Bruno Castanier, Belgacem Bettayeb, Wenjin Zhu |
| | | Hazards and hazard combinations to be considered in extended Probabilistic Safety Assessment (PSA) | Benchmark of the GETTHEM Vacuum Vessel Pressure Suppression System (VVPS) model for a helium-cooled EU DEMO blanket | | Evaluation the resilience of critical infrastructure subsystems | | A preliminary analysis of impacts of Vehicular Ad Hoc Networks on traffic safety | | Failure Classification on Residential Fuel Cells based on Multi-Sensor Data | An adaptive condition-based maintenance planning approach: An offshore wind turbine case study |
| 19.6. Parallel sessions, Monday afternoon early, 4 papers per session | | | | | | | | | | |
| 14:00-15:20 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Risk Management 1 | Reliability in Industry | Accident Modelling 2 | Nuclear Safety - PSA 1 | Resilience Engineering 1 | Risk Modelling of Natural Events | Risk Assessment of Liquefied Natural Gas Facilities | Uncertainty Analysis 2 | Prognostics and System Health Management 2 | Human Factors in Transport |
| | 1082 | 853 | 906 | 1114 | 989 | 731 | 1127 | 621 | 1016 | 834 |
| | Salvador Ávila Filho, Dauton Menezes | Johanna Leigh, Heinz Lugo-Sanudo, Lisa Jackson, Sarah Dunnett, Andrew West, Richard Sharpe, Aaron Neal | Anastasio Pinto Goncalves Filho, Gyuchan Thomas Jun, Patrick Waterson | Jeffery Wood, Donald Helton, Alan Kuritzky, John Lane, Christina Leggett, Ming Li, Gary Wang | Patrick Gasser, Peter Lustenberger, Tianyin Sun, Wansub Kim, Matteo Spada, Peter Burgherr, Stefan Hirschberg, Bozidar Stojadinovic | Claudia Vivalda, Maria Angela Musci, Nives Grasso, Elisa Guelpa, Vittorio Verda, Marco Piras | Goran Stanković, Stojan Petelin, Peter Vidmar, Marko Perković | Claudia Vivalda, Giovanni Boe | Darius V. Roman, Ross W. Dickie, David Flynn, Valentin Robu | Eleonora Bressan, Pietro Carlo Cacciabue, Gabrio Ludovico Mauri |
| | Control of systemic failure through design criteria, RISKDyn | Modelling Manufacturing Processes using Markov Chains | Four Studies, Two Methods, One Accident – Another Look at the Reliability and Validity of Accimap and STAMP for Systemic Accident Analysis | A Compendium of Risk Assessment Studies by US Nuclear Regulatory Commission Office of Nuclear Regulatory Research | Security of electricity supply indicators in a resilience context | Forest wildfire risk mapping and the influence of the weather and geomorphological input data | Effectiveness of a technologically advanced evacuation model in case of LNG spillage from LNG carrier | Addressing cost uncertainties when planning and implementing a monitoring programme for a Carbon Storage site | A Review of the Role of Prognostics in Predicting the Remaining Useful Life of Assets | Dynamic communication of hazards to cyclist by merging risk assessment and risk exposure |
| | 1025 | 828 | 1100 | 761 | 1091 | 1138 | 992 | 1014 | 1067 | 854 |
| | Gabriele Baldissoni, Micaela Demichela, Marko Gerbec, Maria Chiara Leva | Christina Latsou, Sarah J. Dunnett, Lisa M. Jackson | Salvador Ávila Filho, Jairan Dionizio | Claudia Picoco, Tunc Aldemir, Valentin Rychkov, Andrea Alfonsi, Diego Mandelli, Cristian Rabiti | Allison Reilly, Chengwei Zhai, Seth Guikema | Albert Lunde, Ove Njå | Olga Aneziris | Yunhui Hou, Siqi Qiu, Mohamed Sallak | Gauthier Julian, Catherine Cadet, Sébastien Rosini, Mathias Gérard, Vincent Heiries, Christophe Bérenguer | Subeer Rangra, Mohamed Sallak, Walter Schön, Frederic Vanderhaegen |
| | Risk-based optimization of operational procedures | Automated generation of a Petri Net Model: application to an end of life manufacturing | Systemic Fault Analysis to calculate the approximation of the top event: NEMESYS | Coupling of RAVEN and MAAPS for the Dynamic Event Tree analysis of Nuclear Power Plants | Strengths and limitations of Bayesian learning processes in agent-based models | A systems thinking approach to safety in Norwegian avalanche rescue operations. | Validation and sensitivity analysis of the dispersion model "SLAB" in case of LNG release | Estimation of system availability using Markov modeling and random set theory | Model-based fault detection using analytical redundancy for automotive proton exchange membrane fuel | Obtaining empirical data from experimentation on railway operational simulator for human reliability modelling |

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| | | process | | | | | | | | |
| 900 | 833 | 1151 | 1057 | 887 | 590 | 991 | 709 | 1096 | 858 | |
| Alexandre Oliveira Tavares, Pedro Pinto Santos, José Lopes, Jorge Brito | Zhong Zhang, Xiaojian Yi, Yue-hua Lai, Peng Hou, Balbir.S.Dhillon | Jan Mrazek, Lucia Duricova, Martin Hromada | Davide Mercurio, Vince Andersen, KC Wagner | Ali Azadeh, Seyed Mohammad Asadzadeh, Mehrab Tanhaeean | Krzysztof Lewandowski | Peter Lustenberger, Tianyin Sun, Patrick Gasser, Wansub Kim, Peter Burgherr, Matteo Spada, Stefan Hirschberg, Bozidar Stojadinovic | Vera Deeva, Stepan Slobodyan | Jingjing He | Alaide Bayma, Marcelo R Martins | |
| Intermunicipal risk management: addressing territorial and local expectations | A New Reliability Modeling of Mechanical Systems Considering Failure Correlation | The Proposal of Evaluation Criteria for Recoverability of Road Transport | Integrated Level 1 - Level 2 Decommissioning Probabilistic Safety Assessment Methodology for Boiling Water Reactors | A consensus-based AHP for improved assessment of resilience engineering in maintenance organizations | Hazard from increasing the risk of the numbers of earthquakes for the European Economy Growth in next 50 years | Potential impacts of selected natural hazards and technical failures on the natural gas transmission network in Europe | Entropy estimation of a dynamical system via a contact interaction | Assessment of Reliability Performance of Fatigue Crack Detection by Intelligent Coating Monitoring and PZT Sensors | Human Reliability Analysis in the Emergency Evacuation from an Aircraft | |
| 786 | 979 | 344 | 940 | 899 | 972 | 876 | 750 | 806 | 1033 | |
| Xiuzhu Gu, Huchen Liu, Kenji Itoh | Jan Gröber, Frank Müller, Wolfgang Gauchel, Peter Zeiler, Bernd Bertsche | Floris Goerlandt | Sebastian Martorell, Pablo Martorell, Isabel Marton, Sofia Carlos, Ana Sanchez, Ruben Mullor | Seyed Mohammad Asadzadeh, Mehrab Tanhaeean, N. Abdi | Olga Sokolova, Prof. Victor Popov | Hamza Zerrouki, Hacene Smadi | Yan Li, Junming Hu, Yonghui Xie | XiaoWei Duan, Junyou Shi, Yawei Zhao | Aud Marit Wahl, Trond Kongsvik | |
| Patient handoff quality and safety in China: Health care providers' views | Extended reliability analysis of mechatronic systems based on information obtained by design of experiments | A Probabilistic Model for Navigational Accident Scenarios in the Northern Baltic Sea | An overview of optimization criteria in the context of advanced surveillance requirements | Exploring the similarity of Resilience Engineering approach to EFQM approach to ensure safety in a hospital | Critical infrastructure exposure to severe solar storms. Case of Russia | Risk management of a Liquefied Natural Gas process facility using Bow tie and Bayesian Networks | Uncertainty quantification of microwave resonator cavity for space borne hydrogen atomic clock | Research on the health prediction of system Based on Relevance Vector Machine and Ant Colony Algorithm | Leadership@sea: essential non-technical skills | |
| 19.6. Parallel sessions, Monday afternoon late, 5 papers per session | | | | | | | | | | |
| 15:40-17:20 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Maritime and Offshore Risk Assessment | Vulnerability Assessment | Process Reliability | Maintenance Modelling and Applications 2 | Resilience in critical infrastructures 2 | Fault Tree Analysis | System Reliability 1 | Uncertainty Analysis 3 | Prognostics and System Health Management 3 | Safety Related to Socio-Technical Systems |
| 764 | 1037 | 821 | 855 | 1075 | 1124 | 1185 | 1132 | 1090 | 783 | |
| Tito Livio Cardoso, Adriana Miralles Schleder, Marcelo Ramos Martins | Alexander Cedergren, Henrik Hassel | Bostjan Jurjčević, Andrej Senegacnik, Igor Kustrin | Chris Rijdsdijk, Tiedo Tinga | David Lange, Daniel Honfi, Marianthi Theocharidou, Georgios Giannopoulos, Nina Kristina Reitan, Karolina Storesund | Yizhak Bot, Amir Segal | Yun Wang, Shou Song Qing, Hai Long Cheng, Peng Wei Hu, Hang Wu | Brian Cohn, Jieun Hur, Richard Denning, Tunc Aldemir, Halil Sezen | Francesco Cannarile, Piero Baraldi, Michele Compere, Davide Borghi, Luca Capelli, Marco Cocconcelli, Achraf Lahrach, Enrico di Zio | David Brooks, Michael Coole | |
| A preliminary hazards identification of a ship hybrid power system | An action research approach to developing, implementing and evaluating methods for risk and vulnerability assessment | A statistical control of direct-firing system using intrusive electrostatic sensors | Predicting mission success from operating conditions | Incorporation of resilience analysis methods in Critical Infrastructure risk assessment frameworks | Fault Tree Analysis: how accurate is it? | An Inventory Model For Repairable Spare Parts With Lateral Transshipments | Implementation of Surrogate Models within RAVEN to Support SPRA Uncertainty Analysis | An unsupervised clustering method for assessing the degradation state of cutting tools used in the packaging industry | Codifying knowledge in the development of the discipline of Security Science: Knowledge to diagnose, infer and treat the security problem | |
| 1081 | 799 | 814 | 924 | 767 | 678 | 713 | 729 | 841 | 1031 | |
| Justice Uzoma Okoroma, Francesco Ganci, Andrea Caprignano, Raffaella Gerboni | Rui Mota, Alexandre Oliveira Tavares, Pedro Pinto Santos | Jacek Ryczyński, Tomasz Smal | Martorell Pablo, Martón Isabel, Martorell Sebastián, Sánchez Ana Isabel, Carlos Sofia | Gonçalo Cadete, Miguel Mira da Silva, Marianthi Theocharidou | Marc Zeller, Kai Hoefig | Youngkyun Seo, Kwangu Kang, Hyon-Keung Noh, Jung-Yeul Jung, Daejun Chang, Seongjong Han, Sanghyun Park | Tianpei ZU, Meilin Wen, Rui Kang, Qingyuan Zhang | Hui Zhang, Jun Yao, Yurong Zhu | Reidar Staupé-Delgado, Bjørn Ivar Kruke | |
| The role of subsea activities in the framework of the new EU Directive 30/2013 on Oil and Gas safety for offshore installations | Urban vulnerability to fires and the efficiency of hydrants. Improving resource positioning and institutional response | Influence of length storing of fuel on intensity of wear selected components of internal combustion engines | Unreliability model for demand caused failures of safety components addressing degradation by demand stress and maintenance effectiveness | A Conceptual Framework for Assessing the Resilience of Critical Infrastructure | SpeCTRA: automated Synchronization of Component fault TRee and model-based FME(D)A | Availability Estimation of Utility Module in Offshore Plant Depending on System Configuration | An Uncertainty Evaluating Model for Uncertain Metrics in Reliability | Research on bearing life evaluation method based on EMD | Developing a Typology of Crisis Preparedness | |
| 1084 | 1032 | 732 | 948 | 741 | 809 | 932 | 807 | 817 | 1083 | |
| Espen Bergland, Abbas Barabadi, Yonas Zewdu Ayele | Eivind Halvard Okstad, Tor Olav Grøtan, Nicola Paltrinieri | Lexiao Li, W. Zhang, B. Sun | Asier Eguido, Adolfo Crespo Márquez, Eduardo Castellano, Juan F. Gómez Fernández | David Rehak, Martin Hromada, Jozef Ristvej | Ales Filip | Everton Lima, Marcelo Ramos Martins | Houssein Abdo, Jean-Marie Flaus, François Masse | Wenzhe Li, Junyou Shi, XiaoWei Duan, Kuhao | Salvador Ávila Filho, Clessio Dias | |
| Application of unmanned aerial vehicles (UAV) for inspection of Arctic Windmill and Arctic offshore | An empirical case design and stress test addressing hidden, dynamic and emergent vulnerabilities of society | Physics-of-Failure-based method of reliability modeling for LED driver with failure correlation | A novel dynamic opportunistic maintenance modelling approach | Indication of Critical Infrastructure Resilience Failure | Benefits of aviation specific risk for GNSS-based railway signalling | The selection of generic data for a reliability study in the design of an offshore system | Fuzzy semi-quantitative approach for probability evaluation using Bow-Tie analysis | A test point selection method based on recognition of typical topology structure of complex networks | Reliability research to design barriers of sociotechnical failure | |
| 791 | 1078 | 580 | 1019 | 1079 | 993 | 751 | 952 | 781 | 848 | |
| Sunghee Kim, Gyusung Kim, Ki-il Nam | Lucia Duricova, Martin Hromada, Jan Mrazek | Tao Wang, Youcai Yao, Yang Li, Ning Wang, Liwen Wang, Lingchao Qin | Pablo Viveros, Christopher Nikulin, Felipe Bustamante, Tomás Grubessich, Fredy Kristanpoller, Adolfo Crespo, Vicente Gonzalez-Prida, Carlos Parra, Raúl Stegmaier | Bjarte Rød, Abbas Barabadi, Yonas Zewdu Ayele, David Lange, Daniel Honfi, Enrique López Droguett | Lei Jiang, Xiaomin Wang, Yiliu Liu | Zihui Wang, Min Huang | Martina Kloos | Victor Krymsky | Michaela Vašková, Jiří Barta | |
| Fire and explosion risk analysis at the machinery spaces of the offshore facilities | The Comparison Security Coefficient between University and Shopping Center | Performance Analysis of Co-based Alloy Coating by Laser Cladding | Enhancing Maintenance Scheduling and Control Process by using SMED and TRIZ Theory | Probabilistic metric of infrastructure resilience considering time-dependent and time-independent covariates | Reliability assessment of CTC3 onboard system with a fuzzy fault tree | Airborne miniature aircraft: Program, Design and Optimization | Tolerance limit in a more realistic best-estimate plus uncertainty analysis | Software failure prognostics: application of interval-valued probabilities to assessment of reliability under imperfect debugging | Training of the Critical Infrastructure Employees | |
| 1103 | 832 | 710 | 856 | 738 | 775 | 1039 | 1003 | 716 | 675 | |
| Myrto Konstantinidou, Stefania Contini, Shlomo Wald | Nima Khakzad, Pieter van Gelder | Wei Zhang, Wei Wang, Weijia Feng, Wenqiang Zhou | Isaac Animah, Mahmood Shafiee | Miro Bugeza, Damijan Kopš, Zvone Košnjek, Iztok Prezelj, France Križanič, Vasja Kolšek | Luke T. Herbert, Zaza N.L. Hansen | Jasper Behrendorf, Matteo Broggi, Michael Beer, Sebastian Brandt | Anna Kalinina, Matteo Spada, Peter Burgherr | Yawei Zhao, Junyou Shi, Weiwei Cui, Wenzhe Li | Ki Sang Son | |

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| | De-codifying the requirements of the Directive 2013/30/EU on safety of offshore oil and gas operations; risk management and Reports on Major Hazards | Vulnerability assessment of chemical facilities under the impact of floods | Research on the reliability of the spraying process based on the design of experiment | A risk based maintenance (RBM) interval decision making model to support life extension of subsea oil and gas facilities | Critical Infrastructure and Redundancy in Slovenian Electric Power System | UML Statechart Fault Tree Generation By Model Checking | Numerically efficient reliability analysis of interdependent networks | Uncertainty of the outflow hydrograph resulting from the break of a concrete dam | Research on false alarm identification method considering BIT test threshold | Investigating Safety Consciousness Level of the University Students |
| 20.6. | Parallel sessions, Tuesday morning, 3 papers per session, Panel Discussion: Industrial Challenges in Land Transportation | | | | | | | | | |
| 10:00-11:00 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Panel Discussion: Industrial Challenges in Land Transportation | Nuclear Safety - PSA 2 | Accident Modelling 3 | Uncertainty Analysis 4 | Resilience in critical infrastructures 3 | Reliability and Structures | Human Factors and Human Reliability | Food Safety | Model-Based Reliability and Safety Engineering | Workshop HBM Prencia |
| | | 1180 | 1184 | 984 | 1021 | 706 | 822 | 1004 | 705 | |
| | Bob Huisman | Spencer Wheatley, Wolfgang Kröger, Didier Sornette | Behnaz Hosseiniina, Nima Khakzad, Genserik Reniers | Marek Stawowy, Krzysztof Perlicki, Marek Sumiła | Inga Žutautaitė, Ričardas Krikštolaitis, Linas Martišauskas, Juozas Augutis | Miroslav Sykora, Dimitris Diamantidis, Karel Jung, Milan Holický | Kjartan Björnson, Terje Aven | Eva Doménech, Sebastián Martorell | Felix Möhrle, Kai Bizik, Marc Zeller, Kai Höfig, Martin Rothfelder, Peter Liggesmeyer | |
| | Implementing predictive maintenance task scheduling for existing industrial capital assets | Comprehensive Nuclear Events Database: Safety & Cost Perspectives | A multi-plant emergency response plan for tackling major fire accidents in chemical clusters | Comparison of Uncertainty Multilevel Models for Ensure the ITS Services | Risk assessment for critical energy infrastructure considering criticality of its elements | Target reliability for railway civil engineering structures | Utilizing HRA input in risk assessments – a new method for strengthening the risk characterization by highlighting the qualitative insights from the HRA | Safety margins of organophosphorus chemicals in food | A Formal Approach for Automating Compositional Safety Analysis Using Flow Type Annotations In Component Fault Trees | |
| | | 950 | 830 | 985 | 1136 | 736 | 758 | 951 | 749 | |
| | | Andrija Volkanovski, Vaidas Matuzas | Alena Oulehlová, Hana Malachová | Marek Stawowy, Krzysztof Perlicki, Tomasz Mrozek | Ivonne Herrera, Rogier Woltjer, Matthieu Branlat, Björn Nevhage | Zhaojun Hao, Min Huang | Raphael Moura, Caroline Morais, Edoardo Patelli, Michael Beer, John Lewis | Eva Doménech, Sebastián Martorell | Rasmus Adler, Daniel Schneider, Kai Höfig | |
| | | Qualitative importance measures and nuclear safety | Analysis of the Gas Distribution System Operator's Activities on Declaring the State of Emergency | Application and Simulations of Uncertainty Multilevel Models for Estimation of number of Space of Car Parks of Motorway. | Dealing with crises in critical infrastructures: risk and resilience as complementary management approaches | The applications of DOE and computer simulation technology to the improving process reliability of turbine blades of aircraft engines | Human factors influencing decision-making: tendencies from first-line management decisions and implications to reduce major accidents | Assessment of safety margins in relation to Acceptable Daily Intake (ADI) and Maximum Residue Limits (MLR) with application to OPs in peaches | Evolution of fault trees – From hardware safety analysis to the integrated safety analysis of software-intensive control systems | |
| | | 957 | 721 | 891 | 913 | 996 | 897 | 1065 | 901 | |
| | | Gennadi Loskoutov, Christian Karlsson, Per Hellström | Alena Oulehlová, Pavel Kincil, Hana Malachová | Tianxi Liang | Jiří F. Urbánek, Jiří Barta, Jiří J. Urbánek | Christoph Rosebrock, Marcin Hinz, Fabian Reinecke, Stefan Bracke | Wouter Steijn, Jop Groeneweg, Dolf van der Beek, Jakko van Kampen, Pieter van Gelder | Ingunn Marie Holmen, Ingrid Bouwer Utne, Stein Haugen, Ingeborg Ratvik | Bernhard Kaiser, Behrang Monajemi, Daniel Kusche, Horst Schulte | |
| | | Data-Mining Approach for Validation of PSA Models | Training of the Members of Crisis Management: the Scenario of the Forest Fire | System Reliability Assessment Based on QMU | Crisis Situation Investigation at Process Models of Critical Infrastructure Subject | Modelling the reliability of lead anodes in the electro-winning process of non-ferrous metals using machine learning | An integration of human factors into Quantitative Risk Analysis: A proof of principle | The status of risk assessments in Norwegian fish farming | Systematic Design and Validation of Degradation Cascades for Safety-Relevant Systems | |
| 20.6. | Parallel sessions, Tuesday morning late, 4 papers per session | | | | | | | | | |
| 11:20-12:40 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Fundamental Issues in Risk Analysis and Management 2 | Advanced Safety Assessment Methodologies: extended PSA 2 | System Reliability 2 | Maintenance Modelling and Applications 3 | Simulation for Safety and Reliability Analysis 1 | Security Assessment 1 | Critical Infrastructure Safety 1 | Reliability Data and Testing 1 | Risk Assessment in Land Transport | Workshop HBM Prencia |
| | 1024 | 1159 | 765 | 682 | 999 | 700 | 902 | 1028 | 1089 | |
| | Irena Jakopanec, Andreas Hafver, Simen Eldevik, Frank Børre Pedersen | Manorma Kumar, Jirina Vitazkova, Simen Loeffler, Emmanuel Raimond | Rabih Kassar, Eric Chatelet, Bachar El Hassan, Jasmine Soukieh | Maria Isabel Suassuna da Fonte, Mariana Losada Agudelo, Marcelo Hazin Alencar, Adiel Teixeira de Almeida | Johannes Heinrich, Fabian Plinke, Jan Hauschild | Per Gustafson | Krzysztof Kolowrocki, Joanna Soszynska-Budny | Petteri Ojala, Jukka-Pekka Hietala, Juha Miettinen, Pasi Julkunen, Ilpo Nieminen | Roberto Setola, Maria Carla De Maggio, Giampaolo Natale, Marco Tesei, Enrico Zio | |
| | Risk communication: the link between understanding and managing risk | Implementation of external hazards in Level 1 and Level 2 PSA: considerations from the ASAMPSA_E project | Reliability Assessment of Wireless Sensor Networks Equipped with Photovoltaic Cells for the Detection of Changing Environmental Conditions | Multidimensional analysis of failure consequences in the RCM approach: contributions to the decision-making process | State-based safety and availability analysis of automated driving functions using Monte Carlo Simulation | Evaluating an Indicator Matrix for Early Detection of Smuggling Equipment for Dual-Use | An overall approach to modelling operation threats and extreme weather hazards impact on critical infrastructure safety | Modelling of seep through of humidity to electric connector with stochastic processes | An Analytic Hierarchy Process Approach for the Security Assessment of High Speed Railway Construction Sites | |
| | 683 | 1022 | 1073 | 1010 | 1108 | 884 | 912 | 746 | 1072 | |
| | Tony Rosqvist | Slawomir Potemski, Hans Brinkman | Andrey Vasilyev, John Andrews, Lisa Jackson, Sarah Dunnett | Mariusz Zieja, Piotr Barszcz, Mariusz Wesolowski, Krzysztof Blacha | Andrea Basti, Dino Franciotti, Gabriele Bucciarelli, Graziano Panella | Lucia Duricova, Martin Hromada, Jan Mrazek | Agnieszka Blokus-Roszkowska, Krzysztof Kolowrocki | Zeljana Beslic, Shuang Yan, Bernd Bertsche | Agnieszka Tubis, Sylwia Werbińska-Wojciechowska | |
| | Information and confidence levels in risk results-can both be obtained? | Man-made hazards modelling and implementation in extended PSA | Reliability Modelling of PEM Fuel Cells with Hybrid Petri Nets | The evaluation method of degradation degree of runway pavement surfaces constructed from cement concrete | Evaluation of different hypothetical accident scenarios for improving people evacuation in the Gran Sasso National Laboratory | The Analytical Software Support for Evaluation to a Security and Safety Situation in the Soft Targets | Modeling dependencies in critical infrastructure networks | Method for planning optimal degradation tests in consideration of budget and statistic accuracy applied on pitting tests on gear wheels | Operational risk assessment in road passenger transport companies performing at Polish market | |
| | 1060 | 1160 | 928 | 718 | 946 | 808 | 762 | 728 | 1175 | |
| | Jennifer E. Lynette | Nadia Rahni, Emmanuel Raimond, Horst Löffler, Göran Hultqvist | Elena Zaitseva, Vitaly Levashenko, Miroslav Kvassay | Wenqiang Zhou, Dong Zhou, Long Xue, Wei Zhang | Frank Müller, Jan Gröber, Timo Rieker, Peter Zeiler, Bernd Bertsche | Houssein Abdo, Mohamad Kaouk, Jean-Marie Flaus, François Masse | Przemyslaw Dziula, Krzysztof Kolowrocki | Xiaolu Fu, Jun Yang, Songhua Hao | Ingrid Time, Ove Njå | |
| | A Comparative Analysis of Risk and Quality | Verification and improvement of SAM strategies with L2 PSA | Induction of structure function of Multi-State System based on uncertain data | A Method For Parallel Relative System Maintenance Decision-making Based on Product | Development-based reliability modelling and analysis with Petri nets considering | Towards a better industrial risk analysis: a new approach that combines security | Modelling the operation process of Global Baltic Network of Critical Infrastructure | Optimal Design of Step Stress Accelerated Degradation Test Plan for Solid-State Lasers | Approaching tunnel safety from a system safety perspective | |

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|---|---|--|--|---|--|--|---|---|---------------------------|--|
| | | | | Health | interactions | within safety | Networks | | | |
| 1118 | 820 | 864 | | 896 | 953 | 842 | 1101 | | | 707 |
| Lisbet Fjaeran, Terje Aven | Pavlin Groudev, Emil Kichev, Petya Petrova | Xiaojian Yi, Peng Hou, Balbir.S.Dhillon, Jian Shi, Zhong Zhang, H. N. Mu | A New Reliability Assessment Method for Complex Systems Based on Goal Oriented Methodology | Throughput-Centered Physical Assets Priorization Technique | Component availability analysis considering time-dependency of parameters influencing transition rates | Reliability analysis of aerodrome's electronic safety systems taking into account electromagnetic interferences | Safety Modeling of Port, Shipping and Ship Traffic and Port Operation Information Critical Infrastructure Join Network related to Its Operation Process | | | Mónica López-Campos, Christopher Nikulin, Rosa González-Ramírez, Luis Ascencio |
| Do non-governmental organizations relate to risks and uncertainties in an extreme manner? | Areas of verification and improvement of SAM strategies with Level 2 PSA: Preliminary analyse for possible options for WWER-1000 | A New Reliability Assessment Method for Complex Systems Based on Goal Oriented Methodology | | | | | | | | Integrated methodology for decision making: study of the main routes carrying dangerous cargoes in the Valparaiso region |
| 20.6. Parallel sessions, Tuesday afternoon early, 4 papers per sesion | | | | | | | | | | |
| 14:00-15:20 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Risk Assessment 1 | Nuclear Safety - PSA Applications 1 | Air Traffic Safety | Maintenance Modelling 1 | Risk Assessment of Chemical Facilities 1 | Qualitative Reliability Methods | Critical Infrastructure Safety 2 | Reliability Data and Testing 2 | Transport Risk Management | Workshop - BQR - Reliability & Maintenance |
| 937 | 745 | 691 | 773 | 998 | 740 | 838 | 824 | 1171 | | |
| Lorenzo Fedele, Lucilla Monteleone | Moath Kassim, Gyunyoung Heo | Jacek Skorupski | Tiedo Tinga, Wieger Tiddens, Filippos Amoiralis, Michail Politis | Matteo Spada, Pierre Boutinard Rouelle, Peter Burgherr, Domenico Giardini | Qamar Mahboob, Bernd Altmann, Stephan Zenglein | Ewa Kuligowska, Krzysztof Kolowrocki, Joanna Soszyńska-Budny | Jon Tømmerås Selvik, Eric Patrick Ford | Max Mendel, Pieter van Gelder | | |
| Safety, maintenance and nanotechnologies: an introductory state of art about the risk assessment methodologies and the potentialities | Detection and Classification of NPP Accidents Scenarios based on Residual Sign Matrices (RSMs) | On the nature of serious incidents in air traffic | Predictive maintenance of maritime systems: models and challenges | Comparative risk assessment of hydrogen accidents in Europe | IFF-MECA: Combined handling of interfaces, functions and components based failure analysis | Safety of maritime ferry related to its operation process | Maintenance data collection for subsea systems: A critical look at terms and information used for prediction of downtime | Inversive Distance as a Measure of Collision Risk | | |
| 981 | 907 | 692 | 747 | 680 | 889 | 840 | 943 | 784 | | |
| Marta Bucelli, Eivind Okstad, Nicola Paltrinieri, Valerio Cozzani | Shahabeddin Kamyab, Ahmad Pirouzmand, Kaveh Karimi, Faramarz Yousefpour | Jacek Skorupski, Piotr Uchroński | Maxime Redondin, Laurent Bouillaut, Dimitri Daucher, Nadège Faul | Cristina P. Medeiros, Marcelo H. Alencar, Adiel T. de Almeida | Bruno Vidal Silva, Clésio Dias, Salvador Ávila Filho | Ewa Kuligowska, Krzysztof Kolowrocki, Joanna Soszyńska-Budny | Nika Nowizki, Peter Zeiler, Bernd Bertsche, Heinrich Moedden | Gabriela Gongora Svartzman, Jose Emmanuel Ramirez-Marquez | | |
| Advanced methods for risk analysis with integrated perspective | Evaluating Technical Specification for Emergency Diesel Generator from the CDF Point of View in a typical NPP | Walk-through metal detector assessment as a part of airport security management | Temporal clustering of retroreflective marking | Information visualisation supporting a decision-making process in the management of multidimensional risk in gas pipeline | Reliability research in rotary for acidic systems in the dimensions of management, technology and human factors | Integrated model of maritime ferry safety related to its operation process including operating environment threats | Field Data Analysis of Multi Spindle Lathes for a Proven-In-Use Assessment | Commuting Time Variations and Reliability of Subway Systems in the Presence of Disruptions. The Case Study of New York City | | |
| 986 | 942 | 1135 | 956 | 681 | 903 | 960 | 959 | 1068 | | |
| Sandra Hogenboom, Jan Erik Vinnem, Ingrid Bouwer Utne | Kilyoo Kim, Dae Il Kang | Ivonne Herrera, Matthieu Branlat, Audun Vennesland, Martina Ragosta, Alberto Pasquini | Zoe Nivolianitou, Nicolaos Defteraios, Ioannis Ziomas, Chryss Caroni, Olga Aneziris | Cristina P. Medeiros, Marcelo H. Alencar, Adiel T. de Almeida | Christopher Nikulin, Carlos Acuña, Monica Lopez-Campos, Rodrigo Madrid, Cristobal Fernandez | Krzysztof Kolowrocki, Joanna Soszyńska-Budny, Mateusz Torbicki | JiPeng Wu, Xiaoyang Li, Rui Kang | Asbjørn Lein Aalberg, Elisabeth Hansson Blix, Nathaniel John Edwin, Rolf Johan Bye, Vegar Berntsen | | |
| Towards an Online Risk Model for DP Operations: Decision-making and Risk Information | A Study on Initiating Event Models Induced by Fire in a Fire PRA | A Modelling Framework for Resilience Management: Practical benefits in real Air Traffic Management cases | RBIM in Refineries, case study: predicting H2 corrosion | Uncertainty sensitivity analysis prior to making a final recommendation to the Decision Maker in a multidimensional risk of gas pipelines | A creative Root Cause Analysis integrated with Problem Solving approach to better drives maintenance's strategies. | Critical infrastructure integrated safety model related to climate-weather change process applied to port oil piping transportation system operating at land Baltic seaside area | The reliability tests for biomedical devices: a review | A quantitative indicator-based model to support risk-based supervision in the Norwegian Maritime Authority | | |
| 1008 | 1148 | 777 | 1181 | 1011 | 958 | 961 | 888 | 684 | | |
| Silvia Ansaldo, Patrizia Agnello, Paolo Bragatto | Sanghee Kang, Han Gon Kim, Hyun Gook Kang | Max Butter | Katarzyna Pietrucha-Urbanik, David Valis, Zdenek Vintr | Deshai Botheju, Kumuduni Abeysinghe | Pierre Dersin, Benjamin Lamoureux, Allegra Alessi, Olga Fink, Mehdi Brahimi | Krzysztof Kolowrocki, Joanna Soszyńska-Budny, Mateusz Torbicki | Hongwei Cheng, Jin'e Huang, Dong Xu | Olga Becherova, S. Hoskova-Mayerova | | |
| Technological Readiness and Effectiveness of "Smart Systems" for the Control of Major Accident Hazard | Evaluation of Operation Strategy to Enhance the Safety using High Pressure Emergency Makeup System during SBLOCA | Evaluation of the risk of runway overrun using flight data monitoring | Water Network Condition Assessment Using Analytic Hierarchy Process | New directions in Safety & Environmental Management and Policy: A Brief Update on Petroleum Industry | Prognostics and Health Management in Railways | Safety of maritime ferry operating at Baltic sea open waters related to climate-weather change process including extreme weather hazards | Research on the Safety Parameters Relationship of Reliability Verification Test | Rail infrastructure as part of the critical infrastructure | | |
| 20.6. Parallel sessions, Tuesday afternoon late, 5 papers per sesion | | | | | | | | | | |
| 15:40-17:20 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Risk Assessment 2 | Nuclear Safety - PSA Applications 2 | A Marie Skłodowska-Curie Innovative Training Network in Structural Safety 1 | Security Assessment 2 | Resilience Engineering 2 | Structural Reliability 1 | Software Risk Assessment | Reliability Data and Testing 3 | Organisational Factors | Workshop - BQR - Reliability & Maintenance |
| 1172 | 1177 | 715 | 771 | 689 | 730 | 698 | 763 | 1001 | | |
| Zhiguo Zeng, Enrico Zio | Gueorgui Petkov, Ivan Petkov | Guang Zou, Kian Banisoleiman, Arturo González | Donya Fakhrravar, Nima Khakzad, Genserik Reniers, Valerio Cozzani | Tor Stålhane, Stig Ole Johnsen | Mitja Franko, Branislav Panič, Marko Nagode | Antti Pakonen, Kim Björkman | Solfrid Håbrekke, Stein Hauge, Mary Ann Lundteigen, Åsa Sniltveit Hoem, Lin Xie | Gwen Kleijn van Willigen, Frederik Mohrmann, Alfred Roelen, Hendrik van Meerveld | | |
| Interval-valued importance measures for business continuity management | Dynamic human performance context comparison for severe accident management during long term station blackout in light water reactors | Reliability-based inspection planning in view of both crack initiation and propagation | Security Risk Assessment of Gas Pipelines Using Bayesian Networks | Resilience Engineering and safety in Agile Development (through SafeScrum) | Damage based reliability prediction of dynamically loaded components | Model checking as a protective method against spurious actuation of industrial control systems | Modified generic failure rates for safety instrumented systems based on operational experience from the oil and gas industry | Implementing Risk Based Asset Management | | |

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| 1069 | 1178 | 802 | 918 | 982 | 955 | 930 | 1179 | 1044 | | |
| Henrik Hassel, Alexander Cedergeren | Chao Zhang, Yanqin Su, Hongxing Lu | Matteo Vagnoli, Rasa Remenyte-Priscott, John Andrews | Eleonora Pilone, Micaela Demichela, Gianfranco Camunco | Ralf Mock, Christian Zipper | Mahmood Shafiee, Ebitimitula Etebu | Aida Omerovic, Marit Kjosnes Natvig, Isabelle Catherine Rebecca Tardy | Sarka Hoskova-Mayerova, Svajone Bekesiene, Martin Hubacek, Martin Bures | Marja Ylönen | | |
| A method for combined risk and continuity management in a municipal context | Discussion on Reliability Assurance Program for Safety Related System in Digital I&C System of NPP | A Bayesian Belief Network approach for railway bridge condition monitoring and fault detection | A local semi-quantitative methodology to evaluate the main territorial risks and their interactions | Embedding Resilience Assessment into Risk Management | Contributions of Structural Health Monitoring to the Reliability of an Offshore Fixed Platform | Privacy Scorecard – Refined Design and Results of a Trial on a Mobility as a Service Example | Vehicle movement modelling possibilities for defense and crisis management | Licensee's relationship with the suppliers - simple rules, lessons learned | | |
| 1029 | 872 | 805 | 911 | 1076 | 1062 | 1063 | 753 | 1038 | | |
| Daniel Lichte, Kai-Dietrich Wolf, Nadine Schlüter, Stefan Marchlewitz | Jaemin Yang, Jonghyun Kim, Namcheol Kim | António Barrias, Joan Ramon Casas, Sergi Villalba, Gerardo Rodriguez | Gabriele Landucci, Francesca Argenti, Genserik Reniers, Valerio Cozzani | Bjarne Rød, Christer Henrik Pursiainen, Nina Reitan, Karolina Storesund, David Lange, Miguel Miranda Silva | Canio Mennuti, Giuseppe Augugliaro, Paolo Lenzuni, Fabio Brini, Paolo Quaresima, Paolo Bragatto | Haitao Zhao | Yue Shao, Xiaohui Wang, Wenhao Xing, Liwei Sun, Zhiqiang Li | Lillian Katarina Stene | | |
| An Approach to Holistic Safety and Security Risk Assessment Considering Contradictory Requirements under Uncertainty | Analysis of Errors of Commission for the Low Power and Shutdown Operation of APR1400 by Using CESA and MDTA Methods | UPC - BarcelonaTech experience on the use of Rayleigh based distributed optical fiber sensors for SHM of concrete structures | Quantitative performance assessment of physical security barriers for chemical facilities | Evaluation of resilience assessment methodologies | Assessment of structural damage to civil and industrial structures with Acoustic Emission | Assessment of soft error effect on satellites | Research on Establishment Method of Natural Environmental Spectrum and Accelerated Test Environmental Spectrum | "Unity of effort" in the new wars | | |
| 1147 | 1120 | 970 | 1140 | 1093 | 1026 | 1152 | 967 | 785 | | |
| Jose Pereira, Felipe Furtado Leite, Cloves Nogueira Garcia, Gabriel Marques de O. Jesus | Quentin Baudard, Pierre Le Bot | Federico Perrotta, Tony Parry, Luis C. Neves | Sissel Haugdal Jore | Ivo Häring, Johannes Scheidereiter, Stefan Ebenhöch, Dominik J. Schott, Leonhard M. Reindl, Sven Köhler, Christian Schindelbauer, Joan Bordoy, Hermann Scheithauer, Stefan Kaufmann | Jukka-Pekka Hietala, Petteri Ojala, Petteri Multanen, Juha Miettinen, Pentti Saarenrinne | Marek Pawlik | Fuqiang Sun, Ning Wang, Ye Fan, Tongmin Jiang | Yanming Xiong, Ying Liu, Youjian Zhang | | |
| Risk Assessment of Quality Management System Failure via Analytic Hierarchy Process (AHP) and the effects on Organizational Sustainability | Modelling human operations during a nuclear accident: the Fukushima Daiichi accident, in light of the MONACOS method. | Using truck sensors for road pavement performance investigation | The Risk and Value Nexus in Security Risk Management | Analytical engineering process to identify, assess and improve technical resilience capabilities | Fatigue Lifetime Estimation of Machine Component Using Accelerated Testing | Railway Global System for Mobile Communication, safety of the possible enhanced services | An imputation method for missing degradation data based on regression analysis and RBF neural network | Surety engineering and its applications in high consequence systems | | |
| 701 | 812 | 1002 | 835 | 1141 | 847 | 1145 | 1061 | 794 | | |
| Siqi Qiu, Yijian Zheng, Xin Guo Ming, Yunhui Hou, Mohamed Sallak | Sérgio Dias Costa, Leonardo Teixeira Marcos, Celso Marcelo, Jefferson Borges Araújo | Abdollah Malekjarfarian, Daniel Martinez Otero, Eugene OBrien | Petra Beňová, Michaela Vašková | Roshanak Nateghi, Allison C. Reilly | Marek Sokolski, Piotr Sokolski | Zhaowu Xu, Jing Wang, Jiming Chen, Yong Jiang, Ziming Wang | Marcin Hinz, Annika Mueller, Bianca Backes, Stefan Bracke | Malin Knutsen Glette | | |
| Evaluation of the occurrence probability of a railway accident with parametric uncertainties and failure dependencies using Binary Decision Diagram | Safety Electronic systems reliability monitoring program in nuclear power plant - Reactor Protection System Follow up | Pavement Condition Measurement at High Velocity using a TSD | Ensuring the security of selected soft targets | Holistic Approaches to Infrastructure Risk Reduction: Effective Investments Through Pluralism | Assessment of safety of large size ring girders in bucket wheel excavators – a case study | Failure Mode and Effect Analysis of Large Space Environment Simulator | Simulation driven optimization of testing conditions of dental implants. | General practitioners decision-making in questions of hospital admissions—a review of the literature | | |
| 21.6. Parallel sessions, Wednesday morning early, 3 papers per session | | | | | | | | | | |
| 10:00-11:00 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Maintenance Optimisation | Reliability and Gamma Process | Autonomous Vehicles | Cyber security | Risk Assessment of Chemical Facilities 2 | Resilience Engineering 3 | Common Cause Failures | Tunnel Safety | Human Factors 1 | Reliability in Geotechnics |
| 739 | 1176 | 980 | 1052 | 1066 | 860 | 880 | 1102 | 987 | 941 | |
| Radim Bris, Nuong Thi Thuy Tran | Mestapha Oumouni, Franck Schoefs, Bruno Castanier | Mario Brito | Birgit Milius, Po-Chi Huang | Giuseppa Ancione, Isaak Kavasidis, Maria Francesca Milazzo | Armando López-Cuevas, Jose Emmanuel Ramirez-Marquez | Mengfei Fan, Zhiguo Zeng, Enrico Zio, Rui Kang, Ying Chen | Blaž Luin, Stojan Petelin | Claudia Morsut, Bjørn Ivar Kruke | Sónia Marques | |
| Optimization of maintenance policies for complex and highly reliable multi-unit systems | Spatio-Temporal modelling of degradation processes through stochastic Gamma and Gaussian processes | Towards Building a Safety Case for Autonomous Surface Vehicles: A Bayesian Perspective | A roadmap to a safer railway: How the IT security threat will influence the way we handle railway operations in the future | Improving safety of crane-related operations in chemical industry by the support of a real-time computer-aided visual guidance system | Characterizing Community Resilience through Mood Novelty | Modeling common-cause failures using stochastic hybrid systems | Road tunnel operator training on computer simulators | Human factors in crisis governance: the L'Aquila case. | Design Point Simulation in the Context of Evaluation of Probability Bounds in Geotechnics | |
| 1040 | 863 | 844 | 1137 | 947 | 997 | 1050 | 1162 | 673 | 1143 | |
| Vasiliki Klonari, Tuan Phong Nguyen, Pierre-Etienne Labeau, Stefaan Verstraeten | Massimiliano Giorgio, Agostino Mele, Gianpaolo Pulcini | Caroline Bianca S. T. Molina, Rodrigo Ignacio Rojas González, João B. Camargo Jr, Jorge R. de Almeida Jr, Lucio F. Vismari, Jamil K. Naufal Jr, Rafia Inam, Carlos R. B. Azevedo | Marek Pawlik | Willy Røed, Torbjørn Bjerga | Beatrice Cassottana, Shen Lijuan, Tang Loon Ching | Christian Tanguy | Mona Svela, Ove Njå | Carlos Parra, Vicente González-Prida, Adolfo Crespo, Juan F. Gómez, Pablo Viveros, Fredy Kristjanpoller, Antonio Guillén | Sónia Marques | |
| Optimisation of offshore wind farm maintenance strategy considering the variability of the efficiency of imperfect maintenance interventions | A perturbed gamma process with non-gaussian state-dependent errors | A Comparison of Two Simulators to Support Safety Analysis in Autonomous Vehicles | Safety, security and cybersecurity in railway operation | Holistic understanding and structure of environmental safety barriers in the oil and gas industry | A data-driven graphical approach to quantify learning capability for systems resilience: A case study on the U.S. electric power grid | Influence of disk common-cause failures on the data unavailability in Cloud storage systems | Systems engineering to address learning of road tunnel fire safety | Audit Proposal for Maintenance, Reliability and Warranty Management Process | Effects of Correlation in the Context of Evaluation of Probability Bounds in Geotechnics | |
| 711 | 719 | 1086 | 910 | 811 | 867 | 797 | 759 | 949 | 1161 | |
| Emanuele Pascale, Laurent Bouillaut, Thierry Freneaux, Raffaele Sista, Paolo Sannino, Pietro Marmo | Xinlei Zhao, Xiaohong Wang, Lizhi Wang, Dawei Lu, Tongmin Jiang | Paula Lakomicki, Bruno Castanier, Antoine Grall, Paul Schimmerling, Thierry Cembrzynski, | Denise Tellbach, Yan-Fu Li | Atsuko Nakai, Kazuhiko Suzuki | Ann Britt Skjerve, Kaupo Viitanen, Christer Axelsson, Rossella Bisio, Hanna Koskinen, Marja Liinasuo | Huan Wu, Jian Jiao, Tingdi Zhao | Natalia Vatsvåg, Espen Olsen | Jana Markova | Sónia Marques | |

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| | Application of the Weibull distribution for the optimization of maintenance policies of an electronic railway signaling system | A reliability evaluation method based on Gamma process with ADT | Olivier Cayol How to assess the reliability in case of a scalable random environment: application on the autonomous vehicle | A Survey on the Cyber-Security of Distributed Generation Systems | Accident simulator for risk assessment of non-steady work of chemical plant | Learning from Successes in Nuclear Operations – A Guideline | A combined modeling and analysis method for probabilistic common cause failures in phased-mission system | A study of determinants of perceived tunnel safety among Norwegian road users | Analysis of climate changes for evolution of Eurocodes | Classification of Failure Modes by Fitting and Pattern Recognition Tools in the Context of Evaluation of Probability Bounds in Geotechnics |
| 21.6. | Parallel sessions, Wednesday morning late, 4 papers per session | | | | | | | | | |
| 11:20-12:40 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Bayesian Methods | Probabilistic Methods Applied to Power Systems 2 | Nuclear Safety - PSA Applications 3 | Risk Assessment 3 | Software Modelling and Analysis | Structural Reliability 2 | Aircraft Safety | Infrastructure Reliability Modelling | Economic Analysis in Risk Management 1 | Human Factors 2 |
| | 733 | 908 | 708 | 994 | 766 | 893 | 770 | 1128 | 737 | 1054 |
| | Jack Reeves, Rasa Remenyte-Prescott, John Andrews | Hiba Baroud, E.D. Wollega, V. Winckler | Sok Chul Kim, Jong Seuk Park, Byung Soon Kim, Nam Chul Cho, Dong Ju Jang, Joong Woo Bae, Yong Hun Lee | Stig Johnsen, Tor Stålthane | Lixuan Lu, Phillip McNelles | Arne Bang Huseby, Erik Vanem, Karoline Eskeland | Ludwig Drees, Joachim Siegel, Phillip Koppitz, Florian Holzapfel | Caroline Johnson, Roger Flage, Seth Guikema | Wieger Tiddens, Olaf Brouwer, Jan Braaksma, Tiedo Tinga | Birgit Milius |
| | A sensor selection method for fault diagnostics | Renewable Energy Supply Risk Modeling and Analysis | A methodology of the threat assessment for LOLA due to malicious aircraft crash onto NPP | Safety, security and resilience of digital ecosystems. | Analysis of fault tolerant design methods for single event effects in field programmable gate array-based systems using the dynamic flowgraph methodology | Evaluating properties of environmental contours | Quantifying probabilities of exceeding the maximum Mach number in cruise flight using operational flight data | Review of Network-Theoretic Approaches to Characterise Interdependencies in Critical Infrastructure | The business case for condition-based maintenance: a hybrid (non-) financial approach | Human factors and their application in railways |
| | 724 | 944 | 966 | 845 | 1017 | 685 | 1000 | 787 | 865 | 757 |
| | Xinrui Ma, Zili Wang, Dongming Fan, Yi Ren | Roberto Rocchetta, Edoardo Patelli | Myung Ro Kim, JaeGab Kim | Stefan Bracke, Fabian Reinecke, Roland Goertz | Insaf Sassi, Alexia Gouin, Jean-Marc Thiriet | Seong-Yeob Lee, Daejun Chang, Choonghee Jo | Mariusz Zieja, Michal Jaształ, Sławomir Stepien, Mariusz Wazny | Jan Prochazka, Dana Prochazkova | Yaqian Wang, Yufeng Sun | Oddveig Reiersdal Aaberg, Siri Wiig |
| | An Enhanced GO Methodology with Multiple Signal Transmission Types based on Bayesian Network | An Efficient Framework for Reliability Assessment of Power Networks Installing Renewable Generators and Subject to Parametric P-box Uncertainty | The analysis method of initiating events (IEs) for Low Power Shutdown Level 1 PRA | Risk Scenarios, Reliability Challenges and Safety Concept Approach for Second Life Lithium-Ion Battery Systems out of Automotive Technologies | Diagnosis Architecture Reconfiguration for a Networked Mobile Robot | An approach to determine component reliabilities of pile-guided floater based on economic evaluation | The reliability analysis of on-board storage batteries during the operation of aircrafts | Drinking Water Supply Failure | Costs model for Two-Dimensional Lifetime Warranty Policies based on Combined Repairs | Interprofessional Team training in Hospital Wards - a Literature Review |
| | 883 | 1077 | 965 | 1012 | 1007 | 780 | 954 | Presentation only: | 1129 | 778 |
| | Sean Loughney, Jin Wang, Paul Davies | Gamze Dogan, Pierre-Etienne Labeau, Jean-Claude Maun, Jonathan Sprooten, Cindy Bastiaensen, Kristof Sleurs | Jaegab Kim, MyungRo Kim | Heinrich Moedden | Miha Pielick, Miha Mraz | Zhanpeng Shen, Xueqian Chen, Xinen Liu | Marta Woch, Mariusz Zieja, Norbert Grzesik | A. Scherb, D. Straub, L. Garrè | Lubos Kotek, Lukas Jirka, Zdenek Tuma | Kristýna Binková, Andrea Brichová |
| | Bayesian network modelling for offshore installations: Gas turbine fuel gas release with potential fire and explosion consequences | The 'discrete forecast error scenarios' method for grid reliability assessment in short-term planning: application to the Belgian grid | The effect to Core Damage Frequency for Low Power Shutdown PSA in the change of period of scheduled outage | Probabilities in safety of machinery - a real risk reduction has to replace the prevention paradox which is focussing merely on hypothetical risk estimations | Suitability of FRAM method for hazard analysis of ATM functional system of Slovenia Control Ltd. | Reliability Analysis of Polymer Bonded Explosive Based upon Aleatory and Epistemic Uncertainties | A method to assess the reliability of the aircraft airframe on the basis of operational data | Component importance in power grids subject to natural hazards and cascading failure events | Risk based spare part management for machines in decommissioning | Competency to leads others as a tool of crisis management in active and second career |
| | Presentation only: | 1134 | 977 | 1020 | 714 | 782 | 1155 | | Presentation only: | 831 |
| | | Shijia Du, Rui Kang, Zhiguo Zeng, Enrico Zio | Moosung Jae, Jintae, Goon-Cherl Park | Paolo Bragatto, Gaetano Gorrino, Paola Castellano | Fabio Postiglione, Mario Di Mauro, Giovanni Galatro, Maurizio Longo, Marco Tambasco | Shufeng Zhang, Dong Xu, Li Zhang, Yuanxiang Jiang, Xun Chen, Jiang Yu | Hongli Wang, Deming Zhong, Tingdi Zhao | | Mostafa Seraj, Ali Hadi, Davood Shahsavani | Zeinabsadat Nezamodini, Zahra Rezvani, Zeinab Musavianasl |
| | Bayesian self-referencing reliability assessment of sensor systems: Theory and application to automotive environment sensing | Time-dependent reliability assessment of a distributed generation system based on multi-valued decision diagrams and Markov processes | Reliability Assessment of A Decay Heat Removal System in A SFR Using Reliability Physics Model | Reliability of fixed and mobile systems for artificial avalanche detachment | Availability evaluation of a Virtualized IP Multimedia Subsystem for 5G network architectures | Reliability analysis of composite structures considering the statistical correlation between ply mechanical properties | Aircraft system safety analysis based on failure propagation model | Estimate sustainability and durability accounts for liquidity risk of liability side analysis | SPAR-H method for human error assessment: A case study in control room of an alcohol company | |
| 21.6. | Parallel sessions, Wednesday afternoon early, 4 papers per session | | | | | | | | | |
| 14:00-15:20 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | System Reliability and Manufacturing | Probabilistic Methods Applied to Power Systems 2 | A Marie Skłodowska-Curie Innovative Training Network in Structural Safety 2 | Mathematical Methods in Reliability and Safety 1 | Risk Management and Accidents Analysis | Structural Reliability 3 | Occupational Safety 1 | Organizational Factors | Economic Analysis in Risk Management 2 | Human Reliability in Nuclear Facilities |
| | 1131 | 1157 | 1107 | 962 | 1034 | 873 | 755 | 1156 | 720 | 978 |
| | Evenye Monono Enjema, Mahmood Shafiee, Athanasios Kolios | Gorazd Bone, Rafael Mihalič | John Moughty, Joan Ramon Casas | Luiz Fernando Oliveira, Joaquim Domingues, Frank Borre Pedersen, Andreas Hafver | Peter Burgherr, Matteo Spada, Anna Kalinina, Stefan Hirschberg, Wansub Kim, Patrick Gasser, Peter Lustenberger | Bernt Leira, Sebastian Thøns | Kristiane M. F. Lindland, Anne Mette Lind Hermansen, Hege Moberg | Christian Henrik Alexander Kuran, Ove Njå | Rui Du, Min Huang | Moosung Jae, Seunghyun Jang |
| | A Study on the Reliability of BlowOut Preventer (BOP) Systems in Deepwater Erratic Conditions | Probabilistic Power Flow Analysis of a Power System Containing FACTS devices | Evaluation of the Hilbert Huang Transformation of Transient Signals for Bridge Condition Assessment | Combining Time-Dependent Reliability and Bayesian Networks for Risk Monitoring of Subsea Wells | The Energy-related Severe Accident Database (ENSAD) for comparative risk assessment of accidents in the energy sector | System reliability of concrete structures subjected to chloride ingress | Securing employees against hazardous clients in challenging contexts | Using ethnographic methodology in the study of safety in complex sociotechnical systems | Economic Design of CUSUM Control Charts Under Preventive Maintenance and Loss Functions | A Computer Code to Calculate Human Error Probabilities During Implementing Severe Accident Mitigating Strategies |
| | 1048 | 1169 | 1105 | 974 | 1116 | 815 | 769 | 1053 | 1150 | 1139 |

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|---|---|---|--|---|--|---|---|--|---|--|
| | Shenae Lee, Mary Ann Lundteigen, Nicola Paltrinieri, Yiliu Liu, Magne Rød, John Dale | Jerneja Bogovic, Rafael Mihalic | Barbara Heitner, Eugene J. OBrien, Franck Schoefs, Thierry Yalamas, Cathal Leahy | Jozef Zurek, Jaroslaw Ziolkowski, Anna Borucka | Sandra Hogenboom, Jan Erik Vinnem, Ingrid Bouwer Utne | Zhengwei Fan, Yu Jiang, Shufeng Zhang, Xun Chen | Maria Therese Jensen, Espen Olsen | Birgit Milius, Heinz-Peter Berg, Stephan Griebel | Vytis Kopustinskas, Pavel Praks | Luca Podofillini, Vinh N. Dang |
| | A new design concept of blowout preventers for decision support | Probabilistic load flow in Slovenian power system | Comparative study on Bayesian updating of bridge safety model | A method for determination of combat vehicles availability by means of statistic and econometric analysis | Organizational risk indicators for dynamic positioning operations – Learnings from 20 years of FPSO – shuttle tanker incidents and accidents | Research on Vibration Characteristics of Composite Cantilevered Plate with Delamination Damage | Health Risk and Risk of Job Insecurity during Organizational Change: The Influence of Learning Demands and Role Ambiguity | Managing change of safety-critical infrastructure via STAMP | Effect of investments to security of gas supply: a probabilistic cost-benefit case study | First results from an analysis of recent operational events involving errors of commissions |
| | 1049 | 869 | 1146 | 792 | 768 | 875 | 919 | 1051 | 1088 | 1109 |
| | Shorash Miro, Matteo Broggi, Michael Beer, Tobias Willeke, Jörg Seume | Blaž Kirn, Marko Čepin, Marko Topič | Giulia Milana, Kian Banisoleiman, Arturo Gonzalez | Marcela Rabasová, Zygmunt Korban, Ondřej Pavlík | Tomáš Kertis, Dana Procházková, Jan Procházka | Yanlei Wang, Hongwei Cheng | Lorenzo Comberti, Gabriele Baldissone, Micaela Demichela, Mario Patrucco, Luisa Maida | Trine Marie Stene, Anandasivakumar Ekambaram, Margit Hermundsgård, Agnar Johansen | Leif Inge Kjærvoll Sørskår, Eirik Bjorheim Abrahamsen, Håkon Bjorheim Abrahamsen | Dhruv Pandya, Luca Podofillini, Frank Emert, Anthony J. Lomax, Vinh N. Dang, Giovanni Sansavini |
| | Survival signature approach for the reliability analysis of an axial compressor | Effective load carrying capability of solar photovoltaic power plants – case study for Slovenia | Field Characterization of Location-specific Dynamic Amplification Factors towards Fatigue Calculations in Ship Unloaders | A comparison of safety and efficiency of protection systems in carotid artery stenting | Railway accidents in the Czech Republic, causes of risks and their mitigation | A study on the statistical properties of the fatigue damage of Gaussian random loadings | Investigation on the impact of National regulations on the occupational safety | Start-up processes in large construction projects – a requirement for a happy end? | On the use of economic analyses when evaluating new technology in helicopter emergency medical services | Quantification of human failure probabilities for radiotherapy: relevance of THERP's values |
| | 813 | 727 | 1173 | 723 | 1043 | 898 | 964 | 969 | 1149 | 779 |
| | Andrzej Surowiecki, Jacek Ryczyński | Cheng Yu, Fu Guicui, Jiang Maogong, Qiu Yao | Sofia Antonopoulou, Ciaran McNally | Yahui Li | Shenae Lee, Yiliu Liu, Nicola Paltrinieri | Wei Zhang, Yijia Song | Sebastian Martorell, Vicente Gallego, Ana Isabel Sánchez | Maria Grazia Gnoni, Joseph Homer Saleh | Olivier Nusbaumer | Sun Yeong Choi, Wondea Jung, Yochan Kim, Jinkyun Park, Seunghwan Kim |
| | State of strain of physical model road embankment stabilized retaining wall composed of gabion's elements | Lifetime estimation for IGBT modules in power converter under power fluctuation condition | Reliability assessment of braided FRP reinforcement for concrete structures | A Novel Strategy for Fault Propagation Study of Complicated Gear System Based on Network Theory | Modelling hazardous event scenarios for decision support | An equivalent method considering interaction on fatigue reliability analysis | Trend analysis in time series of occupational health indicators in Spain from 1995 to 2015 | How Near Miss Management systems and System Safety Principles could contribute to support High Reliability Organizations | Exact parametrization of ARMA models using the EM-algorithm | Application of qualitative unsafe act analysis under simulated emergency |
| 21.6. Parallel sessions, Wednesday afternoon late, 6 papers per session | | | | | | | | | | |
| 15:40-17:40 | Room Europa | Room Europa C | Room Europa D | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | Mathematical Methods in Reliability and Safety 2 | Airport Security | A Marie Skłodowska-Curie Innovative Training Network in Structural Safety 3 | Maintenance Modelling 2 | Risk Management 2 | Structural Reliability 4 | Failure Mode And Effects Analysis | Organizational Factors in Transport | Risk Assessment and Accident Modelling | System Reliability 3 |
| | 926 | 905 | 1047 | 1045 | 1183 | 650 | 874 | 1074 | 1027 | 712 |
| | Nima Khakzad, Genserik Reniers, Pieter van Gelder | Miroslaw Siergiejczyk, Karolina Krzykowska, Adam Rosiński | Rui Teixeira, Alan O'Connor, Maria Nugal, James Nichols, Mark Spring | Anne Barros, Nicolas Lefebvre, Michel Roussignol | Maria Chiara Leva, Brian McAleer, Michael Roche, Donal Brogan | Eva Lantsoght, Cor van der Veen, Dick Hordijk, Ane de Boer | Cléssio Dias, Bruno Vidal, Salvador Ávila Filho | Ragnar Rosness, Stine Skaufel Kilskar, Ranveig Kviseth Timmannsvik, Kinga Wasilkiewicz | Sebastian Sochacki, Stefan Bracke | Zdenek Vintr, Michal Vintr |
| | On the application of analytic network process to security risk assessment of chemical facilities | Reliability-exploitation analysis of electronic power systems used for airport security | Structural probabilistic assessment of Offshore Wind Turbine operation based on Kriging response interpolation | Modeling Weibull lifetime law and inspection based maintenance for Safety Instrumented Systems | Risk Register and Risk Intelligence: the challenge of operational risks in the energy sector | Reliability index after proof load testing: viaduct De Beek | Implementation Proposal of Industrial Equipment Maintenance Plan Evaluation Offshore: an Application Case Practical Tool Failure Mode and Effects Analysis – FMEA | Safety impacts of internationalisation in the Norwegian railway sector | The comparison of the estimation and prognosis of failure behaviour in product fleets by the RAPP method with state-of-the-art risk prognosis models within the usage phase | Tools for Components Reliability Prediction |
| | 756 | 850 | 1113 | 798 | 818 | 917 | 1056 | 1035 | 760 | 1094 |
| | Jacek Malinowski | Michaela Vašková, Jitka Johanidesová | Yan Xu, Farhad Huseynov, James M. W. Brownjohn, Eugene J. O'Brien, David Hester | Long Xue, Dongzhou, Biao Qiu, Wenqiang Zhou | Håvard Fridheim, Torje Grunnen, Stein Malerud | Martin Krejsa, Jiri Brozovsky, David Mikolasek | Anis Baklouti, Faida Mhenni, Nga Nguyen, Jean-Yves Choley, Abdelfattah Mlika | Trine Marie Stene, Ragnhild Wahl, Reidun Svarava, Jan Alexander Langlo | Axel Berres | Lele Qi, Zhiqiang Li, Lei Li |
| | A fast algorithm finding minimal cut-sets in a network for the purpose of computing an upper bound on its reliability | The Security of Air Transport Infrastructure | Tracking deflection in the field using optical system: a case study | Research on measurement method of on-orbit maintenance time | How to develop fit for purpose scenarios for crisis management exercises | Probabilistic reliability assessment of steel elements exposed to fatigue using Bayesian approach | Improved System Architecture and Behavior Based on FMEA Recommendations | Digitalization of the Rail Network – Challenging the Traffic Management | Trade-off analysis for different architectures of safety-critical systems | Research of reliable life assessment for cemented carbide cutting tool |
| | 1059 | 742 | 1123 | 796 | 916 | 988 | 868 | 1092 | 1174 | 975 |
| | Pierre Dersin, Cristian Maiorano | Pietro Carlo Cacciabue, Italo Oddone, Ivan Rizzolo | Siyuan Chen, Debra F. Laefer, Jonathan Byrne, Atteyyeh S. Natanzi | Yong Yang, Zhijun Cheng, Bo Guo | Lech Bukowski, Jerzy Feliks | Mariusz Zieja, Michał Jaształ, Sławomir Stepien, Mariusz Wazny | Vladimira Osadská, Lukáš Pospíšil, Aleš Bernatik | Tor Erik Evjemo, Åsa S. Hoem | Lars Ole Grottenberg, Ove Njå | Jozef Zurek, Jaroslaw Ziolkowski, Anna Borucka |
| | Reliability Demonstration Tests: Decision Rules and Associated Risks | Risk methods for the assessment of security of large structures: the case of an international airport | The effect of angles and distance on image-based, three-dimensional reconstructions | A conditional based maintenance model for long storage products with imperfect repair actions | Imperfect Knowledge Based Prediction of Disruption Risk in Large Scale Complex Systems | The analysis of the fatigue crack growth rate in pipeline elements in two-dimensional depiction | Combination of FMEA and Stochastic DEA for risk analysis | Aviation in the context of globalization: Characteristics and potential safety challenges from the perspective of a full-service carrier | Assessing the use of GIS in the Norwegian emergency management domain | Application of Markov processes to the method for analysis of combat vehicle operation in the aspect of their availability and readiness |
| | 1097 | 829 | 1142 | 725 | 688 | 628 | 1167 | 851 | 669 | 882 |
| | Alessandro Mancuso, Michele Compare, Ahti Salo, Enrico Zio | Daniel Lichte, Kai-Dietrich Wolf | Md Shah Nur Alam Sourav, Salam Al-Sabah, Ciaran McNally | Jianxing Lu, Xiaohong Wang, Lizhi Wang, Tongmin Jiang | Eirik Bjorheim Abrahamsen, Willy Røed | Yang Chen, Yi Yang, Jingsong Yang, Jingjing He | Jiangsheng Zhu, Kuichao Ma, Mohsen Soltani, Zhe Chen | Bjørn-Morten Batalden, Are Kristoffer Sydnes | Alexey Leksin, Uli Barth, Damir Adeulov, Ralf Mock | Min An, Yao Chen |
| | Risk-informed decision making under incomplete information: portfolio decision analysis and credal networks | Quantitative Multiple-Scenario Vulnerability Assessment Applied to a Civil Airport Infrastructure | Post-installed concrete screws for in-situ assessment of mortar strength | Imperfect preventive maintenance model study based on product degradation process considering cost and availability | The safety of major hazard sites – evaluation of third party risk | Quantitative assessment of crack size based on Lamb wave method | Failure Mode and Effect Analysis for Wind Turbine Systems in China | What causes 'very serious' maritime accidents? | Comparison of Dutch and Russian standards for calculating the risks of a vapour cloud explosion | Fuzzy Reasoning Approach and Fuzzy Analytical Hierarchy Process for Expert Judgment Capture and Process in Risk Analysis |
| | 517 | 788 | 1042 | 810 | 743 | 752 | 920 | 1070 | 789 | 963 |
| | Fei Long, Peter Zeiler, Bernd Bertsche | Dana Prochazkova, Jan Prochazka | Alberto Gonzalez Merino, Luis Costas | Antonio J. Guillén, G. Turconi, G. Ventola, | Thor Myklebust, Tor Stålhane, Robert | Liu Huawei, Liu Yuqiang, Tan | Jacek Kalowski | Asbjørn Lein Aalberg, Rolf Johan Bye | Dana Prochazkova, Jan Prochazka | Jaime Santos-Reyes, Galdino Santos- |

| | | | | | | | | | | |
|---|--|---|---|---|---|--|---|--|--|---|
| | | | de la Peña, Arturo González | V. González-Prida, J. Gómez, A. Crespo | Bains, Geir K. Hanssen | Chunlin, Liu Yongjian, Zhang Jianguo, Yang Lechang | | | | Reyes, Tatiana Gouzeva |
| | Modelling the interaction in redundant production systems for analysing their productivity and availability with high-level Petri nets | Causes of accidents in civilian aircraft operation and tools for management of selected risks | Sensitivity analysis of a finite element model for the seismic analysis of free-standing spent fuel racks | Maintenance 4.0. Review of Maintenance role in the Industry 4.0 revolution. | The Agile Hazard Log approach | Reliability analysis of the space mechanism considering the performance degradation and dynamic time-variant characteristics | Design requirements driven approach to highly automated Failure Mode Effects Analysis | Violation enhancing conditions - a study of Norwegian car ferry workers' compliance of safety-related procedures | Concept of safety of complex technological facilities and tools for facility safety management | Preliminary results on historical data on homelessness and post-earthquake disaster emergency shelter |
| | Presentation only: | | | | 931 | 968 | | 904 | | |
| | János Baumgartner, Zoltán Süle, János Abonyi | | | | José Sobral, C. Guedes Soares | Andrzej Komorek, Jan Godzimirski, Aneta Krzyżak | | Kristine Størkersen | | |
| | Process quality improvement using sequence of survival models | | | | Physical safety barriers behaviour based on RAM analysis using DEMATEL method | The selected aspects of the research into impact loading of adhesive joints in block samples - the influence of the sample geometry | | Coastal cargo work: How can safety shout instead of whisper when money talks? | | |
| 22.6. Parallel sessions, Thursday morning, 4 papers per session | | | | | | | | | | |
| 10:00-11:20 | | | | Room Esmerald 1 | Room Esmerald 2 | Room Mediteranea 1 | Room Mediteranea 2 | Room Adria 1 | Room Adria 2 | Room Pharos |
| | | | | Organisational Factors in Risk Management | Simulation for Safety and Reliability Analysis 2 | Structural Reliability 5 | Mathematical Methods in Reliability and Safety 3 | Nuclear Safety - PSA Applications 4 | Occupational Safety 2 | RAMS in Railways |
| | | | | 1006 | 826 | 1013 | 695 | 971 | 825 | 686 |
| | | | | Aud Solveig Nilsen | Gabriele Montecchiari, Paolo Gallina, Gabriele Bulian | Luca Landi, Heinrich Moedden, Fabio Pera, Eckart Uhlmann, Fabio Meister | Hendrik Schaebe | Jiinduo Xing, Zhiguo Zeng, Enrico Zio | Fiorenza Misale | Thor Myklebust, Narve Lyngby, Geir Kjetil Hanssen |
| | | | | What similarities can municipalities experience in crisis management? | An experiment using immersive virtual reality and a haptic interface to study human behaviour in evacuation | Probabilities in safety of machinery - risk reduction through fixed and moveable guards by standardized impact tests, part 1: applications and consideration of random effects | Trapped with Availability | An integrated framework for condition-informed probabilistic risk assessment | The new frontier of smart working: the importance of health and safety at work | A survey of the software and safety case development practice in the railway signalling sector |
| | | | | 670 | 1119 | 995 | 690 | 801 | 1071 | 696 |
| | | | | Marko Gerbec | Daniel Gaspar, José Silva, Luis Andrade Ferreira | Luca Landi, Fabio Pera, Eckart Uhlmann, Fabio Meister, Heinrich Moedden | Jamal Krini, Josef Börsök | Rainer Kaulbarsch, Dusko Kancev, Jens-Uwe Kluegel | Jaime Santos-Reyes, Daniel Velazquez-Martinez | Hendrik Schaebe |
| | | | | Management of technical and organizational changes | The algorithm construction for randomness with censored data in simulation studies in reliability | Probabilities in safety of machinery – risk reduction through fixed and moveable guards by standardized impact tests, part 2: possible improvements with FE impact simulations | PFD average calculation through a MooN Architecture System | Development of a safety enhancement program for long term operation at NPP Gösgen (CH) under deterministic and probabilistic aspects | Preliminary results of an assessment of the working environment of healthcare centres in Mexico | SIL apportionment and SIL allocation |
| | | | | 744 | 927 | 1111 | 922 | 909 | Poster 694 | 827 |
| | | | | David Levovnik, Marko Gerbec | Alexander David, Giovanni Sansavini | Adrián David García-Soto, Jesús Gerardo Valdés-Vázquez, Alejandro Hernández-Martínez, Francisco León Gay-Alanís | David Valis, Kamila Hasilova, Zdenek Vintr, Aneta Krzyzak | Diego Mandelli, Daniel Maljovec, Carlo Parisi, Andrea Alfonsi, Curtis Smith, Cristian Rabiti | Zygmunt Korban, Marcela Rabasová | Matthew Newall, Coen Van Gulijk |
| | | | | Auditing operational readiness of Management of Change | Identification and mitigation of critical states in power systems by limit state surface reconstruction | Reliability Analysis of Reinforced Concrete Beams Strengthened with FRP using a Combined Method | Non-parametric reliability assessment of composite items | An Overview of Methods to Analyze Dynamic PRA Data | Assessment of the management quality of the occupational health and safety at the extraction department of the coal mine, current condition and forecasts – case study | Efficient Computer Use for Automated Safety Text Analysis |
| | | | | 837 | 878 | 616 | 1023 | 1036 | Poster 693 | 1058 |
| | | | | Yuling Li, Frank W. Guldenmund | Arnold Yuan, Adetola Adegbola | Milan Holicky | David Valis, Kamila Hasilova, Zdenek Vintr, Libor Zak | Nadine Berner, Matthias Utschick, Gerhard Gänssmantel, Marina Röwekamp | Zygmunt Korban, Marcela Rabasová | Marek Mlyrczak, Karol Andrzejczak, Jaroslaw Selech |
| | | | | Managing competence for lifting risk | Karhunen-Loève Expansion for Extreme Values of a Homogeneous Copula-Based Gamma Field | Risk based reliability required in construction | Mathematical modelling of soot particles in oil | Systematic Integration of Hydrological Hazards by Automatically Extending PSA Models | Assessment of management quality of occupational health and safety as a result of the multi-criteria task | Assessment model of operational effectiveness related to newly operated public means of transport |