

WORC 2024



World Overflight Risk Conference

2 - 4 July 2024 | Warsaw, Poland

**Welcome from the University of Southampton
Department of Decision Analytics & Risk**

Professor Mario P. Brito

Head of Department | Department of Decision Analytics & Risk

#WORC2024



PRESENTED BY



University of Southampton



A global top 100 university*.

#1 Global University Business Incubator.

>£1½bn annual turnover.

92% of the University's research has been

classed as 'world leading' or 'internationally excellent'**.

15th in the *Complete University Guide* 2022.

*QS World University Rankings, 2023; **Research Excellence Framework, 2021

Department of Decision Analytics & Risk



Operations Research & Statistics is ranked 49th in the QS World University Rankings

4 members of the department are in top 2% Scientists Stanford list based on article citations

Our research is published in the top-ranking journals, *Risk Analysis*, *Operations Research*, *Production and Operations Management*, *European Journal of Operational Research* and *Transportation Research*.

Our Vision

To be research and education leaders in decision analytics and risk for the betterment of business and society



Department of Decision Analytics & Risk – Hosts of the European Safety and Reliability conference 2023



VWAY

VWAY provides software tools for teams of all sizes, increasing their productivity and agility as they create safe, secure products & systems, that are fully compliant to international standards.

Teamer helps to align and accelerate cross-functional team activity, from development-to-operations (i.e. across the whole product lifecycle) by enabling industry compliant processes. This true DevSecOps product, helps teams to manage the complexity, ensuring functional safety AND cybersecurity.

VisualPro used as the front-end of the development cycle and then iteratively throughout the design-development process. This enables teams/individuals to perform effective risk & hazard analysis on the most complex systems. The results of the analyses help to capture the unanticipated interaction between hardware, software and human operators. These in turn help the teams make more and more detailed design decisions.

GRIF

GRIF (Graphical Interface for reliability Forecasting – grif.totalenergies.com), technology of TotalEnergies, is a software suite of excellence dedicated to RAMS studies. Result of more than 40 years of Research and Development into the company, it is composed of 12 modules included in 3 packages to propose several modeling techniques allowing the users to find the most appropriate technique to resolve the studied system (block diagrams, fault trees, Markov graphs, Petri nets, bowties...). The different modules allow to evaluate the reliability of safety systems (HIPS, SIL loop, ...), the availability of production systems and to perform risk analysis for any fields of activity.

The Journal of Marine Science and Engineering (JMSE, ISSN 2077-1312, www.mdpi.com/journal/jmse) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology, and marine geosciences. We invite you to publish in our journal, sharing your important research findings with the global ocean community. The new Impact Factor of JMSE is 2.744 according to the Journal Citation Reports. It ranks Q1 in the category of 'Engineering, Marine', and Q2 in the categories of 'Oceanography' and 'Engineering, Ocean'.

Journal of Marine Science and Engineering
an Open Access Journal
by MDPI

9 780811 680728 >

33rd EUROPEAN SAFETY AND RELIABILITY CONFERENCE (ESREL 2023)

3 - 7 September 2023
University of Southampton, United Kingdom

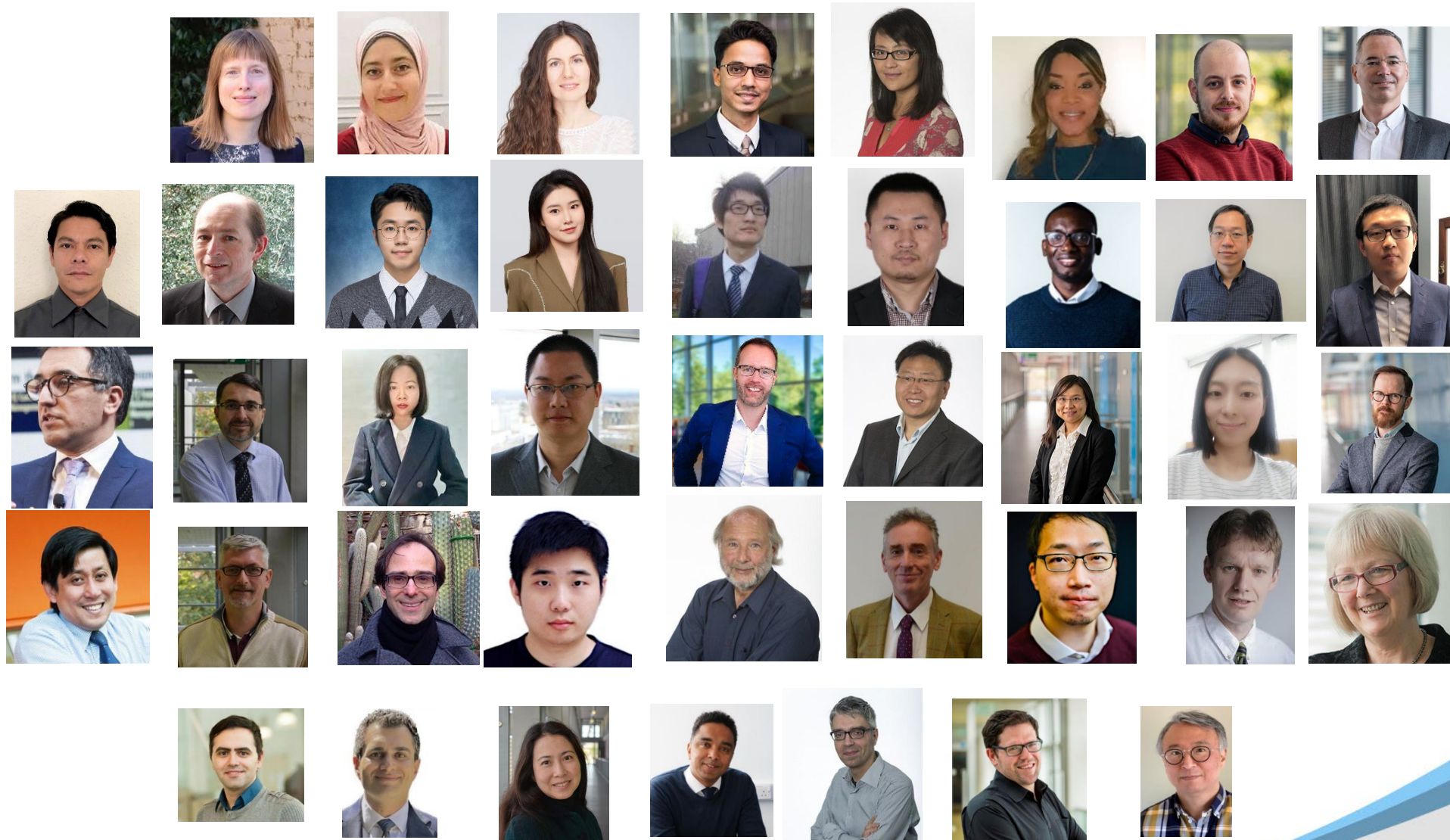
33rd EUROPEAN SAFETY AND RELIABILITY CONFERENCE (ESREL 2023)

PROCEEDINGS

European Safety & Reliability Conference 2023

www.esrel2023.com

The Decision Analytics & Risk team



Our research centres and Education Programmes

Centre for Risk Research

Centre for Operational Research,
Management Sciences and Information
Systems

Advanced Project Management Research Centre

Product Returns Research Group

Centre for Healthcare Analytics

***Education programmes supported in the
Business School:***

Business Analytics and Management Science (MSc), Business Analytics and Finance (MSc), Logistics and Supply Chain Analytics (MSc), Risk Management (MSc), Project Management (MSc), Digital Strategy and Information Systems (MSc), Strategic Operations and Supply Chain Management (MSc), Business Analytics (BSc)

Examples of collaborators -



Welcome to the World Overflight Risk Conference 2024!