

**Monday 1 April**

	Postgraduate Lectures
13.00-13.45	System reliability methods (Prof Lisa Jackson, Loughborough University)
13.45-14.30	Petri net applications to railway maintenance modelling (Prof John Andrews, Nottingham University)
14:30-15:00	Coffee
15:00-15.45	Topics in Reliability and Statistics (Prof Frank Coolen/Dr Tahani Coolen-Maturi, Durham University)
15.45-16.30	Advanced modelling methods for application to mission reliability (Prof Lisa Jackson/Prof John Andrews)
16:30-16:45	Probabilistic reasoning in structural health monitoring Prof Keith Worden (University of Sheffield)

Tuesday 2 April	
	<b>Postgraduate Lectures</b>
09:15-10:00	Bayesian statistical methods for system reliability (Dr Louis Aslett, Durham University)
10:00-10:45	Reliability and extremes: an introduction to extreme value theory (Prof Simon Wilson, Trinity College Dublin)
10:45-11:00	Coffee
11:00-11:45	Advanced Monte Carlo methods for reliability analysis (Dr Edoardo Patelli, Liverpool University)
11:45-12:30	Assessing Subjective Probabilities using Structured Expert Judgement (Prof Lesley Walls, Strathclyde University)
12:30-13:15	Lunch
	<b>Workshop</b>
13:15-14:15	Data-driven maintenance for capital goods: Theory and what is needed in practice. Keynote lecture by Prof Geert-Jan van Houtum (Eindhoven University of Technology, The Netherlands)
14:15-14:30	Optimal extended warranty pricing for a product under base warranty with selling price dependent on warranty period Jinhao Xie
14:30-14:45	Imprecise statistical methods for warranties based on accelerated life testing data Abdullah Ahmadini
14:45-15:15	Coffee & Discussions
15:15-15:30	Validation of Wind Turbine Health History Roger Cox
15:30-15:45	Offshore wind turbine reliability modelling and operational simulation Dr Cuong D. Dao
15:45-16:00	Time-dependant reliability analysis of wind turbines considering load-sharing using FTA and Markov chain Yao Li
16:00-16:15	Evidence-Based Resilience Engineering of Dynamic Space Systems Gianluca Filippi
16:15-16:30	Risk Prediction for Autonomous Systems Prof John Andrews
16:30-17:00	Discussions

Wednesday 3 April

Workshop

09:15-09:30 Imprecise Markov Reliability Analysis of Multi-State Systems  
Daniel Krpelik

09:30-09:45 Generalizing nonparametric predictive inference for right-censored data to two future observations  
Ali M. Mahnashi

09:45-10:00 The joint survival signature of coherent systems with shared components  
Dr Tahani Coolen-Maturi

10:00-10:15 Maintenance Planning under Failure Model Uncertainty  
Ipek Dursun

10:15-10:30 Maintenance-free operation in railway corridors  
Antonio Alvarez Caballero

10:30-11:00 Coffee & Discussions

11:00-11:15 System reliability when components can be swapped upon failure  
Aesha Najem

11:15-11:30 Frailty Modelling for Repairable Systems using Inverse Gaussian Model  
Bodunrin Nathaniel Brown

11:30-11:45 Bayesian design and analysis of reliability demonstration tests using assurance  
Dr Kevin Wilson

11:45-12:00 Pairwise comparison elicitation for probabilistic fault tree analysis, with application to spacecraft re-entry risk  
Prof Simon Wilson

12:00-12:15 Stochastic maintenance policies for a system with correlated degradation modes using the Markov decision process  
Dr Bin Liu

12:15-13:00 Lunch & Discussions

13:00-13:15 Cryptographically Secure Multiparty Evaluation of System Reliability  
Dr Louis Aslett

13:15-13:30 On aspects of statistical inference for the proportional hazards model applied to two groups  
Ahmad Albaity

13:30-13:45 Quantifying system reliability  
Prof Frank Coolen

13:45-14:00 Generalizing Banks' smoothed bootstrap method for right-censored data  
Asamh S.M. Al Luhayb

14:00-15:00 Robust Lifestyle Design and Health Monitoring for Fuel-Cell Extended Performance.  
Keynote lecture by Prof Lisa Jackson (Loughborough University)

15:00-16:00 Coffee & Discussions

16.00

End of the workshop.