

UTOPIAE Opening Training School

20-24 November 2017, Scottish Universities' Insight Institute, University of Strathclyde, Glasgow

	<i>Introduction</i>	<i>Optimisation</i>	<i>Statistics & UQ</i>	<i>Optimisation under UQ with applications</i>	<i>Optimisation under UQ with applications</i>
Nov	20 Mon	21 Tues	22 Wed	23 Thurs	24 Fri
8	Breakfast & Registration	Breakfast	Breakfast	Breakfast	Breakfast
9		An introduction to multi-objective evolutionary optimisation (Boris Naujoks, THK)	Introduction to Imprecise Probability and IP-based statistical methods (Frank Coolen, Durham)	Robust design optimisation, uncertainty quantification and design for reliability (Mariapia Marchi, ESTECO)	Risk measures in the context of robust and reliability based optimisation (Domenico Quagliarella, CIRA)
10	Introduction to system reliability with imprecise probability (Frank Coolen, Durham)		Response surface methods (Mariapia Marchi, ESTECO)		
11	Introduction to optimisation (Edmondo Minisci/Annalisa Riccardi/Kerem Akartunali, SU)	Sequential parameter optimisation: Concepts and applications (Thomas Beielstein, THK)	Statistical methods for system reliability (Louis Aslett, Durham)	Model reduction for high dimensional robust design (Stefan Goertz, DLR)	UQ challenges in high enthalpy flow ground testing (Thierry Magin, VKI)
12	Welcome to the lecture quiz competition		Imprecise Markov chains: from basic theory to applications I (Gert de Cooman/ Jasper de Bock, Ghent)		
13	Lunch	Lunch	Lunch	Lunch	Lunch
14	Introduction to uncertainty quantification (Pietro Congedo, INRIA)	Control parameters in evolutionary optimisation (Gregor Papa, JSI)	Imprecise Markov chains: from basic theory to applications II (Gert de Cooman/ Jasper de Bock, Ghent)	Using expert knowledge elicitation to quantify uncertainty (Abigail Colson, SU)	Evidence-Based Robust Optimisation: An introduction (Massimiliano Vasile, SU)
15		Multi-objective approach in multi-objective optimisation (Peter Korošec, JSI)	Lecture Quiz	In-flight icing: modelling, prediction and uncertainties (Alberto Guardone, PoliMi)	Filtering and state estimation: Basic concepts (Massimiliano Vasile, SU)
16	Introduction to Polynomial Chaos methods (Olivier Le Maître, INRIA)	Bayesian techniques for epistemic UQ of RANS models (Wouter Edeling, Stanford)	Statistical modelling and regularisation (Jochen Einbeck, Durham)		Lecture Quiz
17		Confidence in measurement: standards, traceability and uncertainty quantification (Alistair Forbes, NPL)		Uncertainty management application to design load setting & robust wing twist MDA on A330 NEO (Sanjiv Sharma, Airbus)	
	Lecture Quiz	Lecture Quiz	Network Meeting (Collins Suites)	Lecture Quiz	
			ESR: Preparing a research and career plan (Stuart Grey, SU)		