

Agenda

9:00	Registration
9:30	Introduction to the Workshop Professor Damien Lacroix, Director of MultiSim, University of Sheffield Professor Martin Mayfield, PI & Professor of Engineering Design, University of Sheffield
	Theme 1: Resilience
09:40	Professor Visakan Kadirkamanathan, Director of Rolls-Royce University Technology Centre in Control and Systems Engineering, University of Sheffield
10:00	Professor Liz Varga, Professor of Complex Infrastructure Systems, Cranfield University - Resilience in infrastructure: multi-scale considerations
10:20	Professor Lyudmila Mihaylova, Professor of Signal Processing and Control, University of Sheffield - Cities of the Future – Sensing, Autonomy and Control
10:40	Theme 1 discussion: opportunities in design and modelling for resilience
11:00	Refreshments
	Theme 2: Whole system performance
11:30	Dr. Claudia Mazzá, Reader in Biomechanics, Insigneo Institute, University of Sheffield
11:50	Professor Jennifer Whyte, RAEng Chair in Systems Integration, Imperial College London
12:10	Dr Solomon Brown, Lecturer in Engineering Interdisciplinary Programmes Co-ordinator (MME) Research Centre Assistant Director: CDT Energy Storage, University of Sheffield - Does Energy Storage equal energy resilience?
12:30	Theme 2 discussion: optimisation versus resilience design
12:50	Lunch & Posters
	Theme 3: Uncertainty
13:50	Professor Richard Clayton, Professor of Computational Biology, University of Sheffield - Uncertainty quantification in models of the heart
14:10	Professor Keith Worden, Professor of Mechanical Engineering, University of Sheffield
14:30	Professor Matthias Troffaes, Associate Professor (Reader), Statistics, Durham University - Monte Carlo simulation and iterative importance sampling techniques for propagating severe uncertainty through complex models
14:50	Theme 3 discussion: role of uncertainty in design and modelling of complex systems
15:10	Wrap-up
15:30	End