

**OR60 Tuesday 11 September 2018** - (please note that authors names are listed in the order of Presenter first and then alphabetically)

Time	Faraday LT	Cavendish C	Frankland C	Welcome 1	Welcome 2	Welcome 3	Welcome 4	County LT	Market PI	Private 1	Private 2	Bowland LT	Bowland SR20	Bowland Hall S	LICA A27	LICA A28	LICA A29	Minor Hall	Faraday 2
08:00	Registration/Refreshments/Luggage store 08:00 onwards – Great Hall																		
08:30																			
09:00	Opening Ceremony and Welcome: 09:00-09:30 - LICA building Conference Chair, Mr Graham Rand and Dean of LUMS Prof. Angus Laing																		
09:30	Plenary: Anna Nagurney, John F. Smith Memorial Professor 09:30-10:30 – LICA building Operational Research: The TransfORMative Discipline for the 21st Century  (Kindly sponsored by Springer)																		
10:00																			
10:30	Refreshments – Great Hall																		
11:00	Systems Thinking <b>KEYNOTE</b> Systems Methodologies Mike Jackson			Healthcare Applications of Simulation in NHS England James Crosbie, David Halsall and Jonathan Pearson	Forecasting <b>Forecasting with Judgment</b> Fotios Petropoulos	Combinatorial Optimisation <b>Matroid Parity and Matching Polytopes</b> Ioannis Mourtos, Konstantinos Kaparis and Adam Letchford	Health Systems <b>Logical Rules in Healthcare Operations</b> Fahim Ahmed, Gillian Anderson and Robert Van der Meer	MCDA <b>An Exact Objective Space MOMIP Algorithm</b> William Pettersson and Melih Ozlen	Transport and Logistics <b>Contingency Logistics</b> Brian Gutierrez, Said Salhi, Niaz Wassan and Shaomin Wu	Energy Applications <b>How Smart is Your Thermostat?</b> Roger Main	Information Systems <b>KEYNOTE</b> Enterprise Cognitive Computing Monideepa Tarafdar	Metaheuristics <b>Scheduling Twin Robots in a Palletising Problem</b> Oliver Thomasson, Maria Battarra, Gunes Erdogan and Gilbert Laporte	Defence and Security <b>KEYNOTE</b> OR in Defence and Security Paul Syms	DEA and Productivity <b>Output Attributes, Competition &amp; Price Dispersion</b> Charles Howell and Emili Grifell Tatjé	Location <b>The Multi-Period Design of Preventative Healthcare</b> Soheil Davari	Revenue Management <b>Allocation for Stochastic Container Leasing System</b> Wen Jiao, King-Wah Pang and Hong Yan	Simulation <b>KEYNOTE</b> <b>Writing About Simulation</b> Christine Currie	Community OR <b>KEYNOTE</b> <b>Reason and Prolepsis</b> Jan Gerrit Schuurman	
11:30				Healthcare Applications <b>Exploring Broadening Implementation of My Research</b> Marion Penn, Chris Potts and Xiaozhou Zhao		Combinatorial Optimisation <b>Multi-Dimensional Knapsack Problem</b> Stathis Plitso, Konstantinos Kaparis and Ioannis Mourtos	Health Systems <b>Modifiable Risk Factors - Brazilian Population</b> Simone Lima, Caroline Mota and Danielle Santos	MCDA <b>Multi-Objective Interdiction in Network Security</b> Zhengliang Liu, Arman Khouzani and Pasquale Malacaria	Transport and Logistics <b>Rapid Charger Problem in Oneway Carsharing Systems</b> Seyma Bekli, Burak Boyaci and Konstantinos Zografos	Energy Applications <b>Sustainable Integration of Renewable Energy</b> Omeife Patrick Omavuezi and Patrick Luk				DEA and Productivity <b>DEA Analysis of Offshore Wind Farms</b> Negar Akbari, Dylan Jones and Richard Trelor	Location <b>Reorganising the Healthcare Service</b> Zati Aqmar Zaharudin, Andrew Brint and Andrea Genovese	Revenue Management <b>Revenue Optimisation for Branded Fares</b> Jan Felix Meyer	Simulation <b>Agent-Based Simulation in Agri-Food Supply Chain</b> Bhakti Stephan Onggo, Steve Eldridge and Dhanan Utomo		
12:00	Systems Thinking <b>Systems Thinking: the Elevator Pitch!</b>			Healthcare Applications <b>The Dynamics of Referral-to-</b>	Forecasting <b>Brain Imaging and Forecasting</b> Xun Wang, Weiwei	Combinatorial Optimisation <b>Cut Polytopes</b>	Health Systems <b>Comparing Causes of Death Via Lost Life Expectancy</b>	MCDA <b>Semismooth Newton Method for Bilevel Optimization</b>	Transport and Logistics <b>Modelling User Preferences in One-</b>	Energy Applications <b>Microgrid Optimisation Using a Novel</b>	Information Systems <b>Predictive Recommendations</b> Muhammed Fatih Kaya	Metaheuristics <b>Sampling When Searching for Robust Solutions</b>	Defence and Security <b>Improving RAF Weapons Employment</b>	DEA and Productivity <b>Supply Chains and Network DEA</b>	Location <b>School Relocation Planning</b> Abhishek Bhatnagar	Revenue Management <b>Dynamic Pricing of Flexible Time Slots</b>	Simulation <b>Using Simulation Software to Optimize Staffing</b> Liam Hastie	Community OR <b>Business Perspective On Community Engage-</b>	

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	<i>Gerald Midgley</i>			<b>Treatment Pathways</b> <i>Richard Wood</i>	<i>Han, Fotios Petropoulos and Jing Wang</i>	<b>and Graph Minors</b> <i>Konstantinos Kaparis, Adam Letchford and Ioannis Mourtos</i>	<i>Malcolm Fenby</i>	<i>Alain Zemkoho</i>	<b>Way E-Carsharing</b> <i>Burak Boyaci and Konstantinos Zografos</i>	<b>Configurati on</b> <i>Omefe Omavuezi and Patrick Luk</i>	<i>and Mareike Schoop</i>	<i>Juergen Branke, Xin Fei and Nalan Gulpinar</i>	<i>Philip Jones</i>	<i>Geraint Johnes and Martin Spring</i>	<i>and Nomesha B. Bolia</i>	<i>Arne Strauss, Nalan Gulpinar and Yijun Zheng</i>		<b>ment</b> <i>Elena Pershina, Kenny Crossan and Miles Weaver</i>	
12:30	Lunch 12:30-13:30 - Great Hall																		
13:00	Lunch 12:30-13:30 - Great Hall																		
13:30	MEET the EDITORS <b>Meet the Editors</b> <i>Richard Eglese</i>  The Panel are:  Tom Archibald (JORS) Dursun Delen & Sudha Ram	Systems Thinking <b>The Systemic Nature of Embedded Conflict</b> <i>John Davies and Victoria Mabin</i>	Systems Thinking <b>Assessing Practitioner Systems Thinking Capability</b> <i>Niki Jobson and Lorraine Dodd</i>	Healthcare Applications <b>Combining Data Mining and Simulation in Healthcare</b> <i>Honora Smith, Kasia Bijak, Christine Currie, Navid Izady, Christina Saville and Dandan Shi</i>	Forecasting <b>Interpreting Information in Judgmental Forecasting</b> <i>Anna Sroginis, Robert Fildes and Nikolaos Kourentzes</i>	Combinatorial Optimisation <b>Robust Lot-Sizing With Remanufacturing</b> <i>Öykü Naz Attila</i>	Forecasting <b>Airport Passenger Flows in Real-Time</b> <i>Xiaoqia Guo, Bert De Reyck and Yael Grushka-Cockayne</i>	MCDA <b>Explainable MCDA Methods</b> <i>K.Nadia Papamichail and Theodor Stewart</i>	Transport and Logistics <b>Solving a Gas Delivery Problem</b> <i>Niaz Wassan, Gabor Nagy, Said Salhi and Lina Simeonova</i>	Energy Applications <b>Roadmapping a Nuclear Future</b> <i>Les Collier, John-Patrick Richardson and Paul Jennings</i>	Problem Structuring Methods <b>Using Soft OR to Develop an Evidence Strategy</b> <i>Tanya Powell</i>	Metaheuristics <b>Learning to Mix and Control Multiobjective EAs</b> <i>Wenwen Li, Robert John and Ender Ozcan</i>	Defence and Security <b>Scenario Analysis for Countering Terrorism</b> <i>David Lowe</i>	DEA and Productivity <b>Productivity of Chinese Regional Banking</b> <i>Bingquan Zhao</i>	ORS ORGANISATIONS & CAREERS <b>Careers - Thinking Ahead</b>  DecisionLab McLaren GORS University of Lancaster and more	Revenue Management <b>Revenue Management for Indian Railways</b> <i>Faiz Hamid and Ashish Sharma</i>	Simulation <b>RH-RT</b> <i>Navonil Mustafee, Alison Harper and John Powell</i>	Community OR <b>COR: Survey of the Discipline</b> <i>Michael Johnson, George Chichirau, Gerald Midgley and Jason Wright</i>	OR in Schools <b>©All You Wanted to Know About OR in Schools</b> <i>Sophie Parker</i>
14:00	(Jnl of Bus. Analytics) Christine Currie (JOS) Par Agerfalk (EJIS) Sally Braillford (HS) Giovanni Schiuma (KMRP)	Systems Thinking <b>Alcohol in Supermarkets Case Analysis</b> <i>John Davies, Bob Cavana and Victoria Mabin</i>	Systems Thinking <b>A Critical Systems Approach to Learning Design</b> <i>Daniel Corrinne Shaw</i>	Healthcare Applications <b>Addressing Waiting Time Perceptions in Hospitals</b> <i>Daniel Gartner and Rema Padman</i>	Forecasting <b>The Mangle in Practice</b> <i>Christina Phillips</i>	Combinatorial Optimisation <b>General Benders' Decomposition Framework in SCIP</b> <i>Stephen Maher</i>	Forecasting <b>a Time Series Method to Forecast Cargo</b> <i>Rafael Bernardo Carmona Benitez, Maria Rosa Nieto Delfin and Jose N. Martinez</i>	MCDA <b>The Delphi-DC-MACBETH Collaborative Approach</b> <i>Monica Oliveira, Carlos Bana e Costa and Ana Vieira</i>	Transport and Logistics <b>Offshore Maintenance Routing</b> <i>Toby Kingsman and Burak Boyaci</i>	Energy Applications <b>OR Methods for the Tidal Stream Energy Sector</b> <i>Graham Wall and Dylan Jones</i>	Problem Structuring Methods <b>Applying Adaptive Red Teaming to Enabler Issues</b> <i>Julia Piotto and Patricia Dexter</i>	Metaheuristics <b>Move Acceptance in Local Search</b> <b>Metaheuristics</b> <i>Warren Jackson, Robert John and Ender Ozcan</i>	Defence and Security <b>Security Screening</b> <i>Ian Griffiths, Marc Escandell, Christopher Holt and Rachel Purkess</i>		Revenue Management <b>Revenue Management: Bibliometric Analysis</b> <i>Yun Prihantina Mulyani</i>	Simulation <b>HS to HSM</b> <i>Navonil Mustafee and John Powell</i>	Community OR <b>The Community in Community OR</b> <i>Martha Vahl</i>	OR in Schools <b>Volunteering - What's in it for Me?</b> <i>Matthew Robinson</i>	
14:30		Systems Thinking <b>Reconnecting Severed Heads</b> <i>Louie Gardiner</i>	Systems Thinking <b>Systems Thinking Case Study: Emergent Governance</b>	Healthcare Applications <b>Assessing and Improving Trauma Outcomes Prediction</b>	Forecasting <b>Behavioural Reactions to Demand Uncertainty</b> <i>Mustafa Sinan Gonul,</i>	Combinatorial Optimisation <b>Column Generation and IPMS</b> <i>Jacek Gondzio</i>	Forecasting <b>Nowcasting Electoral Behaviour With Social Media C</b> <i>Lucia Rivadeneira, Manuel Aytekin and</i>	MCDA <b>Diversity in Recommender Systems</b> <i>Ibrahim Muter, Teyfik Aytekin and</i>	Transport and Logistics <b>Symmetry-Free CVRP Formulations</b> <i>Jens Lysgaard</i>	Energy Applications <b>KEYNOTE Energy Applications</b> <i>Jian-Bo Yang, Ting Wu and</i>	Problem Structuring Methods <b>The Development of Soft Operational Research</b>	Defence and Security <b>Requirements for UK Border Force Data Strategy</b> <i>Mark Ashforth</i>	DEA and Productivity <b>Teaching Excellence Framework Evaluation, England</b>	Revenue Management <b>Room Allocation Problem</b> <i>Nursen Aydin and Ilker Birbil</i>	Simulation <b>The Taming Wicked Problems Framework</b> <i>Chris Burman</i>	Community OR <b>Developing Your 'North Star' to Clarify Purpose</b>	OR in Schools <b>My ORiS Journey</b> <i>Penny Holborn</i>		

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			<i>John Pourdehnad and Paul Welfer</i>	<i>Fatima Almaghrabi, Dong-Ling, Xu and Jian-Bo Yang</i>	<i>Celile Itir Gogus, Ayse Kocabiyikoglu and Dilek Onkal</i>		<i>Lopez-Ibanez and Jian-Bo Yang</i>	<i>Ethem Canakoglu</i>	<i>and Sune L. Gadegaard</i>	<i>Dong-Ling Xu</i>	<i>Leila Abuabara and Alberto Paucar-Caceres</i>			<i>Jill Johnes and Boon Lee</i>				<i>Miles Weaver, Kenny Crossan and Hock Tan</i>	
15:00	Refreshments – Great Hall																		
15:30	SEMI-PLenary - FARADAY LT <b>Meet The OR Society's Research Panel</b> <i>Kevin Glazebrook</i> <b>15:30-16:30</b>										SEMI-PLenary – BOWLAND LT <b>50 Years of Government Operational Research</b> <i>Tony O'Connor</i> <b>15:30-16:30</b>								
16:30	<p><b>16:30 LAKE CRUISE DELEGATES - TIME TO RETURN QUICKLY TO YOUR ACCOMMODATION – PRIOR TO CATCHING THE COACH</b></p> <p><b>Coaches will leave at 5.00pm sharp from both of the accommodation areas as follows:-</b>                      North Campus near to Car Park B, on perimeter road behind John Creed accommodation, near to County Avenue                      South West Campus perimeter road, near Cartmel Avenue and bus stops.</p>																		
17:00	Coach to Windermere, Cruise and Dinner 17:00 onwards Drinks reception kindly sponsored by Taylor & Francis																		
17:30																			
18:00																			
18:30																			
19:00	Dinner at Lancaster University from 19:00 for those not on the Windermere trip – Market Place , North Campus (near to the Cash Bar open at County South (COS) 18:00-23:00)																		
19:30																			
20:00																			
20:30																			

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08:00	Breakfast Networking for Making and Impact - County LT – 08:00 – 09:00 (breakfast provided)																				
08:30	Registration/Refreshments/Luggage store 08:00 onwards – Great Hall																				
09:00	Systems Thinking SSM and Infrastructure Business Models <i>Christopher Bouch and Christopher Rogers</i>	Systems Thinking Building Upon John Warfield's Vision <i>Michael Hogan</i>	Systems Thinking Comprehensive Worldview Model for Systems Research <i>David Rousseau and Julie Billingham</i>	Healthcare Applications Reducing ED Overcrowding <i>Luca Grieco, Sonya Crowe, Samer Elkhodair, Naomi Fulop, Martin Utley, Cecilia Vindrola-Padros, Harriet Walton and Victoria Wood</i>	Forecasting Retail Forecasting <i>Robert Fildes and Shaohui Ma</i>	Combinatorial Optimisation First-Order Method for Binary Quadratic Programs <i>Nirmalya Kumar Mohanty and Rupaj Kumar Nayak</i>	Combinatorial Optimisation Algorithms for Bilevel Knapsack Problem <i>Ashwin Arulsevan and Alec Morton</i>	Making an Impact OR and Grand Challenges <i>Miles Weaver</i>	Making an Impact Creative-Get It Done <i>Mark Godber</i>	Making an Impact Waiting for Modot <i>Crispin Allard</i>	Making an Impact Ocado Order Prediction Hackathon <i>Matthew Leadbetter</i>	Disaster Management ORDER <i>Juliana Santano, Marc Goerigk, Puspa Sandhyaduhita and Konstantinos Zografos</i>	Defence and Security Structuring Scenario-Based Experimentation <i>Patrick Driscoll</i>	Community OR Knowledge Networks <i>Rebecca Herron, Eliseo Vilalta Perdomo and Zoraida Mendiwelso Bendek</i>	Location Breaking Down Barriers <i>Thomas Byrne and Jörg Kalcsics</i>		Sustainable Supply Chain Lead-Time Disturbances <i>Virginia Spiegler, Mohamed Naim, Aris Syntetos and Li Zhou</i>	Stochastic Processes Combinatorial Bandits for Border Surveillance <i>James Grant, Kevin Glazebrook, David Leslie and Roberto Szechman</i>	Aviation Applications Symbiotic Simulation for Airline Disruption <i>Luke Rhodes-Leader, Barry L. Nelson, Bhakti Stephan Onggo and David Worthington</i>		
09:30	Systems Thinking Library Managers Human Activity Systems Modeling <i>Niki Chatzipanagiotou and Anita Mirijamdo</i>	Systems Thinking Public Health Systemic Change: Building Evidence <i>Eve Pinsker</i>	Systems Thinking Designing Operational Teams in Evolving Contexts. <i>Julie Billingham and David Rousseau</i>	Healthcare Applications Cooperative ED and Out-Of-Hours GP <i>Stel, Egbert Roos and Martin Smits</i>	Forecasting Distributional Regression <i>Matthias Ulrich, Hermann Jahnke, Roland Langrock, Robert Pesch and Robin Senge</i>	Combinatorial Optimisation Anomalous Behaviour of Dual-Based Heuristics <i>M. Hasan Mansoor, Trivikram Dokka and Adam N. Letchford</i>	Combinatorial Optimisation The Student-Project Allocation Problem <i>Sofiat Olaosebikan, David Duncan Milne</i>						Disaster Management Minimizing Flood Impact on Road Infrastructure <i>Trung Hieu Tran, Graham Adutt, Phuong Dang, Thinh Quang Dang, Cong Chinh Ngo, Van Hiep Nguyen, Hoai Chung Pham and</i>	Defence and Security Innovation for Defence and Security <i>Deborah Fish</i>	Community OR Systems Thinking Concepts in Program Evaluation <i>Maria Alejandra Torres-Cuello and Luis Arturo Pinzon-Salcedo</i>	Location Heuristic for Alternative-Fuel Station Location <i>Gabor Nagy, Thu Ba Nguyen, Trung Hieu Tran and Niaz Wassan</i>	Revenue Management Car Rental Network Revenue Management <i>Dong Li, Zhan Pang and Dali Zhang</i>	Sustainable Supply Chain Resource Recovery From Urban Waste Water <i>Seda Sucu, Djamila Ouelhadj and Maria Orhideea van Schaik</i>	Stochastic Processes Information Provision On Ride-Hailing Platforms <i>Dongyuan Zhan, Leon Yang Chu and Zhixi Wan</i>	Aviation Applications Long-Term Maintenance Scheduling of Aircraft <i>David Torres</i>	

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												<i>Maria Paola Scaparra</i>								
10:00	Systems Thinking <b>Patterns of Strategy</b> <i>Patrick Hoverstadt and Lucy Loh</i>		Systems Thinking <b>SASSY Architecture</b> <i>Ivo Velitchkov</i>	Healthcare Applications <b>Simul8 Model of an A&amp;E Department</b> <i>Sara Heledd Thomas</i>	Forecasting <b>The Latest Techniques for Call Centre Forecasting</b> <i>Devon Barrow</i>	Combinatorial Optimisation <b>SDP Relaxations of the Clique Partitioning Problem</b> <i>Anh Vu and Adam Letchford</i>	Combinatorial Optimisation <b>Algorithms for Junior Doctor Allocation</b> <i>David Manlove</i>					Disaster Management <b>Road Network Protection Against Flooding</b> <i>Stefano Starita and Maria Paola Scaparra</i>		Community <b>OR, OR, Unbounded Problems &amp; Undefined Resources</b> <i>Eliseo Vilalta-Perdomo, César García-Díaz, Martin Hingley and Rosario Michell-Villarreal</i>	Location <b>Reliable Hub Systems with Multiple Capacity Levels</b> <i>Nader Azizi</i>	Revenue Management <b>Balancing Revenue and Load Under Customer Choice</b> <i>Felix Geyer, Christina Büsing and Catherine Cleophas</i>	Sustainable Supply Chain <b>KEY-NOTE Data for the SC or SC of Data?</b> <i>Papadopoulos and Konstantina Spanaki</i>	Stochastic Processes <b>Search in Discrete Locations With Two Search Modes</b> <i>Jake Clarkson, Kevin Glazebrook and Kyle Lin</i>	Aviation Applications <b>MRSA</b> <i>Jun Chen and Michal Weiszner</i>	
10:30	Refreshments											Great Hall								
11:00	Plenary: Peter Checkland, pioneer of Impact led research A Parthian shot (friendly): Reflections on 40 years of engagement (Kindly sponsored											11:00-12:00 – LICA building with so-called ‘social’ and ‘management’ science, including OR ‘hard’ and ‘soft’. by Wiley)								
11:30																				
12:00	Systems Thinking <b>Systemic Reflection About Peace Culture</b> <i>Ricardo Abad Barros-Castro, Tatiana Cuéllar, Giovanna Fiorillo, Luisa García and Blanca Oviedo</i>	Systems Thinking <b>Systemic Approaches to Action for Education Equity</b> <i>Kirsten Kainz</i>	Systems Thinking <b>Organisational Health for Anticipatory Change</b> <i>David Lowe, Karen Clark, Gerald Midgley and Mike Yearworth</i>	Healthcare Applications <b>KEY-NOTE Kidney Donation in the UK</b> <i>David Manlove</i>	Forecasting <b>KEY-NOTE Evaluation of Probabilistic Forecasts</b> <i>James Taylor</i>	Combinatorial Optimisation <b>KEY-NOTE On Combinatorial Optimisation</b> <i>Vladimir Deineko</i>	Healthcare Applications <b>POSTER session</b> 8 poster presentations	Making an Impact <b>Agent Based Simulation</b> <i>Marc Escandell</i>	Making an Impact <b>Developing Your Career: OR/Analytics</b> <i>Professional Gavin Blackett, Sophie Carr, Michael Mortenson and John Ranyard</i>	Making an Impact <b>iAI – Introducing Artificial Intelligence</b> <i>Angelico Fetta, Deborah Fish, John Hope and Gilbert Owusu</i>		Metaheuristics <b>KEY-NOTE Matheuristic Methods</b> <i>Jonathan Thompson</i>	Defence and Security <b>Threat System Mapping</b> <i>Jordan Di Placito</i>	Robust Optimisation <b>A Metaheuristic for Robust Optimisation</b> <i>Martin Hughes and Marc Goerigk</i>	Strategy <b>Whatever Happened to Rational Government</b> <i>Jeffrey Jones</i>	Aviation Applications <b>KEY-NOTE Air Traffic Management (Flow)</b> <i>Guglielmo Lulli</i>	Simulation <b>Quantifying Input Modelling Error in Simulation</b> <i>Lucy Elizabeth Morgan, Barry Nelson, Andrew Titman and David Worthington</i>		ORS COMMITTEE SESSION <b>ORS D&amp;I Workshop</b> <i>Sayara Beg</i> Open to all	ORS CHARITIES <b>Support for Charities</b> <i>Amy Hughes</i> <b>CLOSED SESSION (For Invited Guests Only)</b>

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12:30	Systems Thinking <b>Governance of “Unsolvable” Conflict Situations</b> <i>Viacheslav Maracha</i>	Systems Thinking <b>Balancing Activity Drivers &amp; Daily Cadence in HAS</b> <i>Javier Calvo</i>	Systems Thinking the <b>Operationalisation of Systems Thinking</b> <i>Gordon Niven and David Capewell</i>										Defence and Security <b>Time and Variety in Changing Locus of Control</b> <i>Terence Love</i>	Robust Optimisation <b>Robust Network Capacity Expansion</b> <i>Francis Garuba, Marc Goerigk and Peter Jacko</i>			Simulation <b>Enabling the Automated Calibration of Simulations</b> <i>Catherine Cleophas and Anas Elhag</i>			
13:00	Lunch 13:00-14:00 – Great Hall																			
13:30	Lunch 13:00-14:00 – Great Hall																			
14:00	President Medal Presentations: LICA building																			
	14:00-14:30 Ian Griffiths and James Adamson, ( <i>decisionLab</i> ), Richard Wakelen, and Sheena Wilson ( <i>Canal &amp; River Trust</i> ) Transforming a National Institution: A Case Study in Bringing Together OR Best Practice and Engineering Expertise to Improve the Waterways of England and Wales																			
14:30	14:30-15:00 Mr Max Moullin, ( <i>Public Sector Scorecard Research Centre</i> ) and Mr John Soady, ( <i>Sheffield City Council</i> ) Improving Sheffield’s Health with the Public Sector Scorecard																			
15:00	15:00-15:30 Robert Leese, Jakob Blaavand, Claudia Centazzo and Andrei Bejan, ( <i>Smith Institute</i> ) Repurposing the Radio Spectrum: Delivering on the Promise of Next-Generation Mobile Services																			
15:30	Refreshments - Great Hall																			
	Walking Tour of Lancaster City from 15:30-18:00 - departure details to be confirmed																			
16:00	Systems Thinking <b>Strengthening Health Systems</b> <i>Mike Walsh, James Antwi, Markus Kittler, Khosi Mthethwa and Mike Robbins</i>		Systems Thinking <b>Enhancing Leader-Member Exchange Theory with Bound</b> <i>Oralia de la Pena de Torres</i>	Healthcare Applications <b>Optimisation-Based Hospital Layout Planning</b> <i>Anders N. Gullhav, Henrik Andersson, Vilde N. Kvillum, Bjørn Nygreen and Anne Marit R. Vigerust</i>		Combinatorial Optimisation <b>HiGHS: A High-Performance Linear Optimizer</b> <i>Julian Hall and Ivet Galabova</i>	Making an Impact <b>Behavioural OR and the Public Sector Scorecard</b> <i>Max Moullin</i>	Making an Impact <b>Strengths Assessment</b> <i>Liz Archibald</i>	Making an Impact <b>A Gentle Introduction to Data Science</b> <i>Panagiotis Samartzis</i>	Making an Impact <b>Python - It's Not Just a Snake</b> <i>Dominika Glowa</i>	Making an Impact <b>Agile in OR &amp; Analytics</b> <i>Lawrence Cook</i>	OR in Sport <b>Overall Champions</b> <i>David Percy</i>	Third Sector OR <b>Some Observations on the Third Sector</b> <i>Malcolm Fenby</i>	Problem Structuring Methods <b>Developing a Generic Problem Structuring Method</b> <i>Chris Smith</i>				ORS SCHOOLS <b>Learn About Operational Rsch - School Groups</b> <i>Sophie Parker</i>		ORS COMMITTEE SESSION <b>Board and General Council</b> <i>John Hopes</i>  Open to all
																		<b>CLOSED SESSION (For Invited Guests Only)</b>		

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16:30	Systems Thinking <b>Kaleidoscopic Configurational of Digital Economy</b> <i>Dmitry Reut</i>	Systems Thinking <b>Digital Transformation in Public Agencies</b> <i>Anita Mirjamdotter, Mari Runardotter, Diana Chroner and Anna Stahlbrost</i>	Systems Thinking <b>Systemic Design for a Primary School</b> <i>Angela Espinosa and Gabriela Ramirez</i>	Healthcare Applications <b>Restructuring Inpatient Wards</b> <i>Sebastian Rachuba, Elvan Gokalp and Nalan Gulpinar</i>	Forecasting <b>Movie Demand Forecasting Using Delphi Method</b> <i>Kit Mun Mak, Wei Chong Annuar Md Nassir</i>	Combinatorial Optimisation <b>Stronger Separation of Bilinear Terms</b> <i>Felipe Serrano, Ambros Gleixner and Benjamin Mueller</i>							OR in Sport <b>Snooker Analysis</b> <i>James Collingwood</i>	Third Sector OR <b>Pro Bono OR Challenges</b> <i>Amy Hughes</i>	Problem Structuring Methods <b>Personal Tutoring in HE and SSM Analysis</b> <i>Stephen Powell and Alicia Prowse</i>						
17:00	Systems Thinking <b>Systems Approach to Church Leadership</b> <i>Gottfried Claussen</i>	Systems Thinking <b>Threshold Concepts in System Thinking</b> <i>Patrik Elm, Sarfraz Iqbal and Anita Mirjamdotter</i>	Systems Thinking <b>Systemic Intervention</b> <i>Juan Scribante and Theo Andrew</i>		Forecasting <b>Pre-Release Search Traffic Profiles</b> <i>Oliver Schaefer, Robert Fildes and Nikolaos Kourentzes</i>			Making an Impact <b>Modern Day Elevators - Network in 20 Seconds</b> <i>Sophie Carr</i>					OR in Sport <b>Risk Strategies for Team Players</b> <i>David Calvert</i>	Third Sector OR <b>OR in Support of Charityworkers</b> <i>Howard Turner</i>	Problem Structuring Methods <b>The Role of Stakeholders in OR Interventions</b> <i>Harry Kogetsidis</i>						ORS COMMITTEE SESSION <b>Education &amp; Research. Cttee</b> <i>Alistair Clark</i> Open to all
17:30			Systems Thinking <b>Operational Research/ Systems Thinking Synergies</b> <i>Luis Arturo Pinzon-Salcedo and Maria Alejandra Torres-Cuello</i>		Forecasting <b>Deep Learning for Forecasting Model Selection</b> <i>Sasan Barak and Sven F Crone</i>								OR in Sport <b>Scoring and Entertainment in Rugby Union</b> <i>Phil Scarf</i>	Third Sector OR <b>Conveying the Suicide Crisis in a Single Sentence</b> <i>Malcolm Fenby</i>	Problem Structuring Methods <b>Survey of PSM and MM in Latin America</b> <i>Maria Alejandra Castellini and Melany Segarra Marinetti</i>					OR in Schools <b>All You Wanted to Know About OR in Schools</b> <i>Sophie Parker</i>	
18:00																					
18:30																					
19:00	Gala Dinner at Lancaster University 19:30 *til late LICA building																				
19:30																					
20:00																					
20:30																					

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08:00	Registration + Refreshments + Luggage store 08:00 onwards – Great Hall																			
08:30																				
09:00	Systems Thinking Appreciative Systems Model for Digital Capability <i>Behrooz Golshan, Anita Mirjamdotter and Patrik Elm</i>	Systems Thinking 2 Feedback Loop Axiom Implications: OR & Systems <i>Terence Love</i>	Systems Thinking Towards Engaged Scientific Communities <i>Pawel Kawalec</i>	Healthcare Applications Infinite-Server Queues for 'Predictive Modelling' <i>David Worthington, Dan Suen and Martin Utley</i>	Forecasting Exponential Smoothing Overview <i>Ivan Svetunkov and Nikolaos Kourentzes</i>	Combinatorial Optimisation Homomorphisms and Generalisations from Both Sides <i>Stanislav Zivny</i>	Forecasting Equity Premium Prediction <i>Ekaterini Panopoulou</i>	MCDA for Circular Economy <i>Maryam Masood and Stuart R Coles</i>	Transport and Logistics Solution for MOVRP With Environmental Criteria <i>Raeesi and Konstantinos G. Zografos</i>		Information Systems Innovation in Data-Rich Environments <i>Amani AL-Jaafreh, Amjad Fayoumi and Juliana Sutanto</i>	Disaster Management Comparing Protection Strategies Against Disasters <i>Maria Paola Scaparra and Stefano Starita</i>	Timetabling and Scheduling KEY-NOTE <i>Rhydian Lewis</i>	Business Analytics You Earn How Much? You Must Be Joking! <i>Colin Stewart</i>	Location On Carriers Collaboration in Hub Location <i>Antonino Sgalambro and Elena Fernández</i>	Aviation Applications Proposing an MCDM for Airport Slot Allocation <i>Fotios Katsigiannis and Konstantinos Zografos</i>	Stochastic Processes Repeated Allocation of Assets With Short Lifespan <i>Stephen Ford</i>	Risk Energy Risk Identification and Evaluation <i>Amin Vafadarnikjoo, Tiago Botelho and Konstantinos Chalvatzis</i>	Behavioural OR KEY-NOTE System Dynamics and Behavioural OR in Management Education <i>John Morecroft</i>	ORS COMMITTEE SESSION Events Committee <i>Ruth Kaufman</i>  Open to all
09:30	Systems Thinking Lessons From Grenfell: A Systems Thinking Approach <i>John Foley and Kerry Turner</i>	Systems Thinking Epistemology of Modelers as Stakeholders <i>Amber Elkins, Wade McDonald, Dennis Gorman, Mark Lawley, Gerald Midgley, Nathaniel Osgood and H. Morgan Scott</i>	Systems Thinking Systems Thinking for Sense Making <i>Yingli Wang</i>	Healthcare Applications Chronic Care Management with PAM <i>Evrin Gunes, Odysseas Kanavetas, Lerzan Ormeci and Christos Vasilakis</i>	Forecasting Forecasting Life Cycles With Exponential Smoothing <i>Xiaojia Guo</i>	Combinatorial Optimisation Improved Guarantees for K-Means Clustering <i>Justin Ward</i>	Forecasting Earned Duration Management (EDM) <i>Homayoun Khamooshi</i>	MCDA Evaluating Radiotherapy Treatment Plan Quality <i>Emma Stubington, Matthias Ehr Gott, Omid Nohadani and Glyn Shentall</i>	Transport and Logistics A Two-Stage Biased Randomised Heuristic for LRPCD <i>Abdullah Almouhanna, Angel Juan, Banafsheh Khosravi, Djamilia Ouelhadj, Javier Panadero and Carlos Quintero-Araujo</i>	OR Consultancy & Case Studies Putting the Cart Before the Horse <i>Vivienne Raven</i>	Information Systems Measuring the Impact of a Digital Learning Portal <i>Masoud Fakhimi, Lampros Stergioulas and Munir Abbasi</i>	Disaster Management Optimisation-Simulation for Disaster Management <i>Pavel Albores and Oscar Rodriguez-Espindola</i>		Business Analytics Design Thinking in Business Analytics Development <i>Richard Vidgen and Giles Hindle</i>	Location Lagrangian Relaxation for P-Median Radius <i>Minerva Martín del Campo and Sergio García Quiles</i>	Aviation Applications Optimizing Slot Allocation at Level 3 Airports <i>Nuno Antunes Ribeiro, Alexandre Jacquillat, Amedeo Odoni and António Antunes</i>	Stochastic Processes New Stochastic Processes for Reliability System <i>Shaomin Wu</i>	Risk GAMS for Credit Risk Survival Data <i>Jonathan Crook and Viani Djeundje</i>		
10:00	Systems Thinking Systems Thinking in Education <i>Kerry Turner</i>	Systems Thinking Non Linear Modelling <i>Cor van Dijkum</i>	Systems Thinking Systems Thinking in Policy Development <i>Sarie Brice, Doris Behrens, Daniel Blachfellner</i>	Healthcare Applications Modelling Depression <i>Sarie Brice, Doris Behrens, Daniel Gartner</i>	Forecasting Forecasting Using Complex-Valued Autoregressions <i>Sergei Svetunkov and Ivan Svetunkov</i>	Combinatorial Optimisation Constant-Factor Approximation for ATSP <i>Laszlo Vegh, Ola</i>		MCDA Uncertain Data Envelopment Analysis <i>Matthias Ehr Gott, Allen Holder and</i>	Transport and Logistics Environmental Routing <i>Said Salhi, Adolf Acquaye and</i>	OR Consultancy & Case Studies Systems Models at DIT <i>Hala Elsayed, Richard Jackson</i>				Business Analytics Big Data Analytics <i>Christopher Holland</i>		Aviation Applications A Slot Allocation Model With Queuing Constraints	Stochastic Processes Intelligence Gathering Operations <i>Christopher Kirkbride</i>		Behavioural OR Lessons for Mixed Method Work <i>Susan Howick and Fran Ackermann</i>	



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				<i>and Paul Harper</i>		<i>Svensson and Jakub Tarnawski</i>		<i>Omid Nohadani</i>	<i>Norfaieqah Ahmad</i>	<i>and Lee Zhao</i>						<i>Jamie Fairbrother, Kevin Glazebrook, Robert Shone and Konstantinos Zografos</i>				
10:30	Refreshments – Great Hall																			
11:00	Systems Thinking Emergent Quality Management <i>Tomas Backstrom, Anders Fundin and Peter E Johansson</i>	Systems Thinking FoRSE® Matrix Software for OR and More <i>Blane Despres</i>	Systems Thinking A Practical Application of Systems Methodologies <i>Michael Walker</i>	Healthcare Applications Evaluating Small Scale Primary Care Interventions <i>Christopher Sherlaw-Johnson</i>	Forecasting Intermittent Demand Forecasting <i>John Boylan and Aris Syntetos</i>	Combinatorial Optimisation Stable Marriage with Ties <i>Maxence Delorme, Sergio Garcia, Jacek Gondzio, Joerg Kalcsics, David Manlove and William Pettersson</i>	Health Systems Prescriptive Algorithmic Model for Antibiotics DSS <i>Adrian Yeow and Kim Huat Goh</i>	MCDA KEY-NOTE Learning From and for MCDA Practice <i>Valerie Belton</i>	Transport and Logistics Order Picking Under Different Storage Assignments <i>Jiyin Liu</i>	OR Consultancy & Case Studies Outsourcing Risk Management <i>Martin Parr</i>	Information Systems Re-Designing Mindfully ES Modules <i>Masoud Fakhimi, Athina Ioannou and Konstantina Spanaki</i>		Timetabling and Scheduling Policies for Continuous Bioprocesses <i>Folarin Oyebolu, Jürgen Branke and Suzanne Farid</i>	Business Analytics Collaborative Data Exploration <i>Aidan Cross, Tim Foster and Richard Vidgen</i>	Network Optimisation Applications Network Modeling Using Covariates <i>Swati Chandna</i>	Aviation Applications Airline Crew Scheduling <i>Phornprom Rungrueang, Banafsheh Khosravi and Djamila Ouelhadj</i>	Stochastic Processes KEY-NOTE Stochastic Modelling of Aircraft Queues <i>Robert Shone, Kevin Glazebrook and Konstantinos Zografos</i>	Simulation SIG Meeting at OR60 <i>Navonil Mustafee</i>	Behavioural OR Supply Chain Coordination and Risk Aversion <i>Niladri Palit and Andrew Brint</i>	ORS COMMITTEE SESSION The Publicity, Members and Website Committee <i>Vivienne Raven</i>  Open to all
11:30	Systems Thinking Applying Complexity Theory to Contracting <i>Judy Oakden</i>	Systems Thinking FoRSE® Matrix Application <i>Blane Després</i>	Systems Thinking Re-Designing Information Boards: Interwoven Design <i>Ulrika Florin and Carina Soderlund</i>	Healthcare Applications Decision Analytics for Emphysema Treatment <i>Shengfan Zhang</i>	Forecasting Compound Poisson Forecasting and Inventory Control <i>Ruud Teunter, Mohamed Zied BABA and Aris Syntetos</i>	Combinatorial Optimisation Pareto-Optimal Allocations <i>Pavlos Eirinakis and Ioannis Mourtos</i>	Health Systems Hybrid Real-Time Simulation for Emergency Care <i>Alison Harper and Navonil Mustafee</i>		Transport and Logistics Real-Time Railway Rescheduling <i>Edwin Reynolds</i>	OR Consultancy & Case Studies SD to Support Nuclear Sector Strategy <i>Sion Cave</i>	Information Systems Realistic Evaluation Case Study Development <i>Andrew Boilson, Justin Connolly, Regina Connolly, Paul Davis, Anthony Staines and Dale Weston</i>	Disaster Management Integrating Shelter Location & Evacuation Routing <i>Annunziata Esposito Amideo, Maria Paola Scaparra, Antonio Sforza and Claudio Sterle</i>	Timetabling and Scheduling Exam Timetabling as a Grouping Problem <i>Anas Elhag and Ender Ozcan</i>	Business Analytics A Methodology for Identifying Flying Route Markets <i>Rafael Carmona-Benitez and Maria Nieto</i>	Network Optimisation Applications Comparing Sampling Designs on Networks via Informa <i>Simon Lunagomez, Coria, Marios Papamichalis and Patrick J. Wolfe</i>	Aviation Applications Crew Scheduling With Re-Timing. <i>Fredrik Altenstedt</i>			Behavioural OR Treatment Process Differences in Offload Zone <i>Peter Vanberkel, Alix Carter and Molly Elliott</i>	

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12:00	Systems Thinking Dynamics of Variety to Change Locus of Control <i>Terence Love</i>	Systems Thinking To Increase Expertise Rather Than Knowledge <i>Eliseo Vilalta-Perdomo and Cesar Garcia-Diaz</i>	Systems Thinking A Systems Thinking View of Project Failure <i>Paul Summers</i>	Healthcare Applications Healthcare Behavioural OR <i>Paul Harper</i>	Forecasting Forecast Nervousness in Supply Chains <i>Qinyun Li and Stephen Disney</i>	Combinatorial Optimisation Multi-Dimensional Vector Assignment <i>Trivikram Dokka</i>	Health Systems SSM Assessment of Unions Heterogeneity in Health <i>Francis Andem</i>		Transport and Logistics Railway Scheduling in the Presence of Uncertainties <i>Nattapol Paisarnvir-osrak, Banafsheh Khosravi and Djamila Ouelhadj</i>	OR Consultancy & Case Studies Modelling the Condition of the School Estate <i>Peter Curtis and Adrian Fletcher</i>	Information Systems Asset Health Prognostics Using Machine Learning <i>Ian Griffiths, Cristina Morariu, Chris Smith-Clarke, Gordon Squire and Amrith Surendra</i>		Timetabling and Scheduling Hyper-Heuristics for Solving UTRP <i>Leena Ahmed, Philipp Heyken, Ahmed Kheiri, Yong Mao and Christine Mumford</i>				Stochastic Processes Optimizing Proactive Transshipments in Retail Netw <i>Thomas Archibald</i>		Behavioural OR ABM of Conflict in IS Projects <i>Richard Williams</i>	
12:30	Lunch 12:30-13:30 – Great Hall																			
13:00																		ORS COMMITTEE SESSION		
13:30	Systems Thinking OR, Systems Thinking, and the UN Global Goals <i>Yasmin Merali and Geoff Royston</i>		Systems Thinking A Smart Community Approach to Improving Healthcare <i>Tim Woolliscroft</i>	Healthcare Applications Building Systems and Research in Rural Uganda <i>Andrew Dobson</i>	Forecasting Model Uncertainty in Hierarchical Forecasting <i>Nikolaos Kourentzes</i>		Cutting and Packing Heuristics for the Score-Constrained Strip-Packing <i>Asyl Liyakat Hawa</i>	Data Mining How to Fit an Equation to Data Symmetrically <i>Christopher Tofallis</i>		OR Consultancy & Case Studies KEY-NOTE A Principled Basis for Decision <i>Ian Mitchell</i>	Health Systems Health Systems Editors' Meeting <i>Paul Harper</i>	Disaster Management KEY-NOTE Refugee Resettlement <i>Alexander Teytelboym, Narges Ahani, Tommy Andersson and Andrew Trapp</i>		Business Analytics IoT and Bullwhip Effect <i>Christos Papanagnou</i>			Stochastic Processes Irreversible Investment in Petroleum Refinery <i>Sunday E. Omosigho and Esosa Enoyoze</i>	Women in OR Network <i>Penny Holborn and Frances O'Brien</i> Open to all	Community OR COR SIG AGM <i>Martha Vahl</i>	
14:00	Systems Thinking Putting Some Systems Thinking Back into SSM <i>Giles Hindle and Richard Vidgen</i>		Systems Thinking Stakeholders take the Stage <i>Tom Scholte</i>	Healthcare Applications Interdisciplinary Programme for Maternity Safety <i>Guillaume Lamé, Jenni Burt, Mary Dixon-Woods, Tim Draycott, Elisa G. Liberati,</i>	Forecasting Weighted Energy Score <i>Xiaochun Meng and James Taylor</i>	Combinatorial Optimisation On Lifted Cover Inequalities for 0-1 LPs <i>Georgia Souli and Adam Letchford</i>	Cutting and Packing Heuristic for the Skiving Cutting Stock Problem <i>Xiang Song, Yan Chen, Yaodong Cui and Djamila Ouelhadj</i>	Data Mining Machine Learning From Unicorns to Racehorses <i>Gillian Groom</i>		OR Consultancy & Case Studies KEY-NOTE A Principled Basis for Decision <i>Ian Mitchell</i>	Editors-in-Chief, Area Editors of Health Systems, and T&F staff Only)		Business Analytics Mortgage Lending <i>Swati Sachan, Dong-Ling Xu and Jian-Bo Yang</i>	Network Optimisation Robust Retrofitting Planning <i>Xuan Vinh Doan</i>			Stochastic Processes Project Scheduling in Dynamic Environments <i>Ugur Satic, Peter Jacko and Christopher Kirkbride</i>		ORS COMMITTEE SESSION Publications Committee <i>Richard Eglese</i> Open to all	

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				<i>Rebecca K. Simmons, James Ward and Cathy Winter</i>																
14:30	Systems Thinking <b>Systems Thinking: Personal and System Archetypes</b> <i>Svetlana Shchepetova</i>		Systems Thinking <b>Smart Model-Based Governance</b> <i>Stefano Armenia, Eduardo Franco, Carlo Maria Medaglia and Alessandro Pompe</i>	Healthcare Applications <b>Social Networks and Obesity</b> <i>Mark Tuson, Daniel Gartner and Paul Harper</i>	Forecasting <b>On the Untunability of Forecasting Algorithms</b> <i>Steven Prestwich</i>	Combinatorial Optimisation <b>New Cutting Planes for Fixed-Charge Problems</b> <i>Adam Letchford and Georgia Souli</i>	Cutting and Packing <b>Sequencing Algorithm to Vehicles Assembly Process</b> <i>Nei Yoshihiro Soma, Renato Duarte Costa and Rafael Magalhaes Dias Frinhani</i>			OR Consultancy & Case Studies <b>Iprep</b> <i>Gerard Doyle and Anthony Staines</i>					Network Optimisation Applications <b>Exploiting Network Structures</b> <i>Guglielmo Lulli, Semih Atakan and Suvrajeet Sen</i>		Stochastic Processes <b>Cutting Queues</b> <i>Vasco Alves</i>	OR in Schools <b>All You Wanted to Know About OR in Schools</b> <i>Sophie Parker</i>		
15:00	Refreshments – Great Hall																			
15:30 to 16:30	Presidential Address and Closing Ceremony 15:30 LICA building  John Hopes, President of The OR Society and recently retired as EY's Global Head of Business Modelling, 'New challenges for operational research in the age of AI and big data'  (Kindly sponsored by Taylor & Francis)																			