

NEW TO OR 2019 Full Programme

Wednesday 10 April 2019

Author names are listed in the order of presenter first then alphabetically

All sessions and refreshments during the day are in the Conference Aston Meeting Suites (CAMS)

Time	Steelhouse LT 2	Stafford 1	Stafford 2	Steelhouse 3
08:00	08:00-09:00 Registration - coffee, tea - Litchfield Lounge			
09:00	09:00-09:15 Steelhouse LT 2 Introduction - Laura Brudenell (conference Chair) Welcome - John Hopes, President of The OR Society			
09:15	09:15-10:15 Plenary Speaker - Steelhouse LT 2 Paul Harper, Deputy Head of School & Dir. of Data Innovation Research Institute at Cardiff University Title: OR Saves Lives!			
10:15	10:15-11:00 Speed Networking 45 mins - Steelhouse LT 2			
11:00	11:00-11:30 Refreshments - Litchfield Lounge			
11:30	Modelling and Simulation How Can Simulation Be Used to Solve Transport Security Challenges? <i>Nicola Cave</i> NEW19A20	Supply Chain & Transportation Management Net Present Value of Dynamic Lot Sizing with Cash Flow of Tax and Promotion Price Decision <i>Hua Jin</i> NEW19A3730	Metaheuristics KEYNOTE: Approaches for Real World Air Transportation Problems <i>Geert De Maere</i> NEW19A3750	Education Creating an Insight Service for the Postgraduate Sector <i>Daniel Brookes</i> NEW19A3722
12:00	Modelling and Simulation AFSIM - Developing a New Modelling and Simulation Capability within Dstl <i>Matthew Bell</i> NEW19A3734	Supply Chain & Transportation Management Different Implementations of Forecasting in a Business Setting with a Case Study Using the Prophet Model <i>Kirsty Parsons</i> NEW19A3746		Education Efficient Planning to Personalize Learning <i>Ayse Aslan, Ilke Bakir and Iris Vis,</i> NEW19A3723

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12:30	12:30-13:30 Lunch - Litchfield Lounge			
13:30	<p>Optimisation Multi-Objective Mixed Integer Optimisation for Metabolic Engineering <i>Mahdi Doostmohammadi, , Ricardo Andrade, Nonu Mira, Marie-France Sagot, Joel L.Santos and Susan Vinga</i> NEW19A3745</p>	<p>Big Data and AI Using Python for Automation of Multiple Software Tests <i>John Newman</i> NEW19A19</p>	<p>Metaheuristics Optimising Dynamic Vehicle Paths for Applications of the Travelling Salesman Problem with Drones <i>Ruaridh Williamson</i> NEW19A3742</p>	<p>Education Use of Videos in Teaching OR Courses <i>Fahim Ahmed</i> NEW19A3758</p>
14:00	<p>Optimisation RLT Cuts for Mixed Integer Linear Programming <i>Tobias Achterberg</i> NEW19A3731</p>	<p>Big Data and AI Energy Disaggregation: A Microcosm for AI <i>Katie Russell</i> NEW19A3728</p>	<p>Metaheuristics Selection Hyper-Heuristics for Optimising Line Routes of Public Transportation Networks <i>Leena Ahmed, Philipp Heyken, Ahmed Kheiri Yong Mao and Christine Mumford</i> NEW19A3756</p>	<p>Education Work Based Learning in Online & Blended Degree Programmes. <i>Dominic Finn</i> NEW19A3759</p>
14:30	<p>Workshop EBSCO The OR Society Digital Library <i>Phil Sykes</i> 30 mins</p>	<p>Workshop Extreme Programming Game <i>George Carter</i> 1 hour</p>	<p>Workshop SIMUL8 <i>Tom Stephenson</i> 1 hour</p>	<p>Workshop Education in OR <i>Fahim Ahmed and Dominic Finn</i> 1 hour</p>
15:30	15:30-16:00 Refreshments - Litchfield Lounge			

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16:00	<p>16:00-17:00 Plenary Speaker – Steelhouse LT 2 Nira Chamberlain FORS, Visiting Fellow at Loughborough University Title: The Power of Mathematical Modelling</p>
17:00	<p>17:00-18:00 Careers Panel - Steelhouse LT 2 John Hopes, Nira Chamberlain, Tony O'Connor, Frances Sneddon, Heather Tewkesbury These highly experienced senior representatives of OR in Academia and Practice are here specifically to help you. So, put your thinking caps on now for any questions you might have for them!</p>
18:00	<p>18:00-19:00 Drinks reception – Litchfield Lounge Kindly sponsored by Smith Institute</p>
19:00	<p>19:00 – 19:30 short break before dinner 19:30 onwards Gala Dinner + Socials in Aston Business School Private Dining area</p>

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08:00	08:00-09:00 Registration - - Litchfield Lounge			
09:00	09:00-10:00 Plenary Speaker - Steelhouse LT 2 Frances Sneddon, Chief Technical Officer, SIMUL8 Title: The Digital Transformation of OR			
10:00	<p>Analytics A Guide to Automated Forecasting of Criminal Court Cases at the Ministry of Justice <i>Benjamin Lavelle</i> NEW19A3729</p>	<p>Metaheuristics Dynamic Pricing of Perishable Products in Supermarkets <i>Jiabin Luo and Yue Wu</i> NEW19A22</p>	<p>Modelling and Simulation Creation of an R-Shiny App to Model Inequalities in Childhood Obesity <i>Eleanor Wilson</i> NEW19A3743</p>	<p>Optimisation Methods for Solving Mixed Integer Bilevel Linear Programs Featuring a Bilinear Second Level Objective Function <i>Karl Steinborn-Busse</i> NEW19A3739</p>
10:30	<p>Analytics Agile Analytics: Lessons from Devops & Cloud Native Computing <i>Michael Mortenson</i> NEW19A3755</p>	<p>Metaheuristics Multi-Stage Nurse Rostering Problem <i>Ahmed Kheiri</i> NEW19A21</p>	<p>Modelling and Simulation Modelling Self Spreading Vaccines in a Reasonable Worst Case Influenza Pandemic in the UK <i>Peter Clark</i> NEW19A3748</p>	<p>Optimisation Practical Warehouse Optimisation for an Online Retailer <i>Tom Hassall</i> NEW19A3747</p>
11:00	11:00-11:30 Refreshments - - Litchfield Lounge			
11:30	<p>Analytics Analysing Eurofighter Typhoon Programme History to Support Future Combat Air Development <i>Alice Cooper-Dunn</i> NEW19A3736</p>	<p>Big Data and AI Using Machine Learning to Minimise Food Waste in Perishable Products <i>Jacques Vergine</i> NEW19A3735</p>	<p>Consultancy The Future of Food Hygiene: Food Establishment Risk Modelling for Improved Inspections <i>Gordon Squire</i> NEW19A11</p>	<p>Optimisation Critical Chain Identification Based on Trade Off Between Cost, Resource and Time <i>Bingling She, Darek Ceglarek and Bo Chen</i> NEW19A3740</p>

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12:00	<p>Analytics Computational Transcript Analysis: Research in Progress <i>Yuchen Liu and Michael Mortenson</i> NEW19A3754</p>	<p>Big Data and AI The Perron-Frobenius Theorem and Machine Learning <i>Appolo Tankeh and Fola Malomo</i> NEW19A3744</p>	<p>Consultancy Applicable Data Visualisations and Analytical Tools for an OR Consultancy Company <i>Jason Potter</i> NEW19A3733</p>	<p>Optimisation Supporting High Level Decision Making Cost Modelling in UK Defence <i>Emily Galloway</i> NEW19A3721</p>
12:30	<p>Analytics Using Operational Analysis to Maximise Value for Money from Research Funding <i>Gurveer Aujla</i> NEW19A3738</p>	<p>Big Data and AI The Evolution of Analytics - An Exploration of When and Why Businesses Need to Grow Their Offering <i>George Carter</i> NEW19A3737</p>	<p>Consultancy Using Deep Reinforcement Learning to Solve Real Problems <i>Christopher Smith-Clarke</i> NEW19A3749</p>	<p>Optimisation Optimising the Investment Decisions to Minimise Flood Impacts on Road Traffic and Infrastructures in Hanoi, Vietnam <i>Siao-Leu Phouratsamay</i> NEW19A10</p>
13:00	13:00-14:00 Lunch - Litchfield Lounge			
14:00	<p>14:00-15:00 Plenary Speaker - Steelhouse LT 2 Tony O'Connor CBE FORS, Chief Analyst, MoD and Chair, Government Operational Research Service (GORS) Title: Making a Difference – OR in Government</p>			
15:00		<p>Workshop Extreme Programming Game <i>George Carter</i> 1 hour</p>	<p>Workshop SIMUL8 <i>Tom Stephenson</i> 1 hour</p>	<p>Workshop Education in OR <i>Fahim Ahmed and Dominic Finn</i> 1 hour</p>
16:00	<p>16:00-17:00 Drinks reception and networking - Litchfield Lounge</p> <p>Announcement: Winner of the Elsie Cropper £100 prize for best paper (as judged by the delegates at New to OR 2019)</p>			
17:00 17:15	Closing Ceremony			