**YOUNGOR 19 2015**

**Full Programme**

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 Suite (CAMS)

**Tuesday 22 September 2015**

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| 09:15 | **Registration - coffee, tea – Litchfield Lounge** | | | | | |
| 10:15 | **Welcome and Plenary - Steelhouse Theatre**  ***Vicky Forman – Chair of YOR19 followed by  ‘OR in the Age of Big Data’ Stewart Robinson, President of the OR Society*** | | | | | |
| 11:30 | **Guide to Speed Networking + Speed Networking** | | | | | |
| 12:30 | **Lunch - Litchfield Lounge** | | | | | |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 13:30 | Analytics **Digital Analytics: You're**  **Doing it All Wrong** *Michael Mortenson* | Simulation **KEYNOTE:**  **Facilitated Simulation Modelling** *Antuela*  *Tako* | OR & Strategy **Engineering Manpower Modelling Application** *Samantha*  *Wyss* | Optimisation **KEYNOTE:**  **Pricing Optimization**  **in the**  **Airline**  **Industry** *Michael Benborhoum* |  | Health  **Using AHP**  **to Prioritise Pharma Industry Activity** *Matthew*  *Mildred and*  *Trang Ngo* |
| 14:00 | Analytics **Adapted Concept Develop-**  **ment Assessment Game** *Jennie Gozzi*  *and Karl*  *Skoog* | OR & Strategy **Cooperative Game**  **Theory and**  **a Proof**  **of the**  **Eurozone** *Yupei Zhong* | Energy &  Climate Change  **Energy**  **System Modelling**  **for**  **Climate Change** *Ajay Gambhir* | Health  **Modelling**  **A&E Waits,**  **A Phase-**  **Type Simulation Approach** *Laura M.*  *Boyle and*  *Adele H.*  *Marshall* |

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| **YOR19 Tuesday 22 September 2015** | | | | | | |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 14:30 | Analytics  **Criminal Careers Analysis**  **of**  **Young Offenders** *Radka*  *Kozarova and Robyn*  *Smith* | Simulation **An**  **Agent-Based Model of**  **Supply**  **Chain**  **Collabor-**  **ation** *Niniet Indah Arvitrida,*  *Stewart*  *Robinson*  *and*  *Antuela Tako* |  | Optimisation **EXT.ABSTRACT**  **Multi-Organisat-**  **ional**  **Disaster Manage-**  **ment** *Oscar Rodrigues-Espindola,*  *Pavel Albores*  *and*  *Christopher Brewster* | Energy &  Climate Change  **Can We**  **Power the Home of**  **the Royal Navy?** *Ben Ludford* | Health  **Capacity Planning**  **with Monte Carlo Simulation** *Xing Xie and Navid Izady* |
| 15:00 | Analytics  **From**  **Sankey to**  **Swanky** *Katharine Etheridge* | Simulation  **Optima**  **Predict: Simulating Emergency Services.** *Leanne*  *Smith* |  | Optimisation **Workforce Manage-**  **ment** *Hanjing*  *Zhang, Sarah Dunnett, Lisa Jackson,*  *Jiyin Liu and Antuela Tako* | Energy &  Climate Change **Global**  **Carbon**  **Finance**  **Model: Workings**  **& Inputs** *Duncan Gray*  *and Tim Johnston* | Health **Robust Operating Theatre Scheduling** *Elizabeth*  *Rowse* |
| 15:30 | **Break - coffee, tea - Litchfield Lounge** | | | | | |
| 16:00 | Analytics  **Improving**  **the Performance**  **of Credit**  **Risk**  **Scorecard** *Emily Verdon* | Simulation **Distributed Investment Decisions**  **& Over-**  **confidence** *Stephan*  *Leitner, Doris A.*  *Behrens and Alexandra*  *Rausch* | A Young OR  Guide  **Tips for Facilitated Simulation Modelling** *Antuela Tako* | Optimisation  **Batch Optimisation** *Nikolas Stockbroekx*  *and Emel*  *Aktas* | Energy &  Climate Change **Global Carbon Finance**  **Model: Assumptions**  **& Outputs** *Duncan Gray*  *and Tim*  *Johnston* | Health  **Modelling Survival**  **In**  **Oncology** *Hamish*  *Lunagaria*  *and Matt*  *Watkins* |
| 16:30 |  | Simulation  **The Use of Simul8 in Transport Consultancy** *Grace*  *Francombe* | A Young OR Guide  **Working**  **With Open Source Mapping**  **Data** *Neil Urquhart* | Optimisation  **A First-Order Multigrid Method for Convex Optimiza** *Sudaba Mohammed*  *and Michal Kocvara* | MCDA  **Applying MCDA**  **in the**  **Context of HTA: A Case**  **Study** *Aris Angelis, Panos Kanavos and Gilberto Montibeller* | Health  **Worksystem Redesign**  **of Nursing Home Antibiotic**  **Use** *Edmond Ramly,*  *Mozhedeh Bahrinian, Chris Crnich, James Ford and David Nace* |
| **YOR19 Tuesday 22 September 2015** | | | | | | |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 17:00 |  | Simulation  **Simulation Modelling**  **in the Fire Service** *Andrew*  *Greggan* | A Young OR Guide  **A Young**  **OR Guide to The OR**  **Society** *Gavin Blackett and Louise*  *Allison* | System Dynamics **KEYNOTE:**  **Agile**  **System Dynamics** *Kim Warren* | MCDA  **Uncertainty**  **in**  **MCDA** *Shane*  *Ó Meachair* |  |
| 17:30 |  |  | A Young OR  Guide **Optimisation** *Oscar*  *Rodrigues-Espindola,*  *Pavel Albores*  *and*  *Christopher Brewster* | MCDA  **Police**  **Officer Dynamic Positioning** *Johanna*  *Leigh, Sarah Dunnett*  *and Lisa*  *Jackson* |  |
| 18:00 | Close Tuesday 22 Sept | | | | | |

**YOR19 Wednesday 23 September 2015**

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|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 08:30 | **Registration - coffee, tea - Litchfield Lounge** | | | | | |
| 09:30 | Stochastic Modelling  **Staffing**  **Time-Dependent Dual-Class Service Systems** *Julie Vile, Jonathan*  *Gillard, Paul Harper and Vincent*  *Knight* | Analytics  **Optimising Decisions**  **for Profit**  **& Success** *Ben Archer*  *and Anne*  *d'Elboux* | Defence & Security  **Sense and Sensitivity** *Cecilia*  *Dahlgren*  *and Jan*  *Frelin* | Supply Chain **Predictive**  **Control of Perishable Inventory** *Joanna*  *Orzechowska, Andrzej*  *Bartoszewicz,*  *Keith J.*  *Burnham and Dobrila*  *Petrovic* | Energy &  Climate Change  **DECC/UCL Optimal Energy Pathways** *Birgit Fais,*  *Bevan*  *Freake and Jonathan*  *Tecwyn* | Consultancy  **Big Data**  **and**  **Operational Research** *Shivam Desai* |
| 10:00 | Stochastic Modelling **Strategic Sensing in Cognitive**  **Radio Networks** *Ran Snitkovsky*  *and Refael*  *Hassin* | Analytics  **Mclaren Applied Technologies** *Angelico*  *Fetta* | Defence & Security  **Evidence-Based**  **Decision Support-Transport Security** *Karen*  *Chapman* | Supply Chain **KEYNOTE:**  **Cheers! – Modelling**  **the Supply**  **Chain of**  **Beer** *Katinka van*  *de Velde* | Consultancy  **Quick Win Through**  **Supply**  **Chain**  **Design** *Tin Leung* |
| 10:30 | Stochastic Modelling **KEYNOTE: Stochastic Strategic Behaviour** *Vincent*  *Knight* | System Dynamics  **Action Selection**  **for Virtual Humans** *Oliver Handel* | Defence & Security  **OA in the Swedish Armed**  **Forces** *Kristofer*  *Hallgren* | Energy &  Climate Change  **Upside**  **Energy** *Graham*  *Oakes* | Consultancy  **Workforce Planning Modelling**  **At EY** *Alexandra Mishenina*  *and Joe*  *Wood* |
| 11:00 | System Dynamics  **System Dynamics Modelling**  **of the**  **Rural Care**  **Gap** *Jennifer*  *Morgan* | Defence & Security  **What is the Cost of Defence?** *Tommy Lodge* |  | Energy &  Climate Change  **Using SSM to**  **Underpin**  **An**  **Evaluation** *Amy Coleman* | Consultancy  **'Gamification' at EDF**  **Energy** *Alastair*  *Brown* |
| **YOR19 Wednesday 23 September 2015** | | | | | | |
| 11:30 | **Break - coffee, tea - Litchfield Lounge** | | | | | |
| 12:00 | **Plenary - Steelhouse Theatre**  ***‘Widening O.R.’s customer base: from Bawdsey Manor to Pro Bono’ Graham Rand, Lancaster University*** | | | | | |
| 13:00 | **Lunch - Litchfield Lounge** | | | | | |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 14:00 | Stochastic Modelling  **Solve Maintenance Planning Problems**  **By**  **Q-Learning** *Junchi Tan* | System Dynamics  **Simulation-Based**  **Planning for New**  **Drug**  **Strategy** *Ross Kazakov*  *and Penka Petrova* | Optimisation **KEYNOTE:**  **MOP-MRE** *Dylan Jones* | Supply Chain  **Supply**  **Chain**  **Network Optimisation**  **A Case**  **Study** *Byron Song* | Energy &  Climate Change  **KEYNOTE: Itheca**  **Project** *Jim Scott* | Health  **KEYNOTE: Predicting Norovirus**  **Rises using Twitter** *Callum Staff* |
| 14:30 | Stochastic Modelling  **Prison**  **System Modelling:**  **A**  **Comparison**  **of**  **Approaches** *Ffion Jones*  *and Hannah Neech* |  | Supply Chain **Supply**  **Chain**  **Resilience** *Jay Edwards* | Energy &  Climate Change  **Modelling Hinkley**  **Point C** *Andrew*  *Stothart* |

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| **YOR19 Wednesday 23 September 2015** | | | | | | |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 15.00 |  | **WORKSHOP Deciphering**  **a Puzzle**  **as a Data Scientist.**  *Sayara Beg* | **WORKSHOP From Theory**  **to Reality - What else**  **do I need**  **to be an**  **OR consultant? *Kuangyi Liu*** | **WORKSHOP Running Outreach Events:**  **a game theoretic exemplar** ***Vince Knight*** | **WORKSHOP How OR is Practically**  **used**  **within**  **the Airline Industry** ***Rasseeda***  ***Virgo and*** *Andrew Long* | **WORKSHOP** **Simulation Modelling**  **with**  **AnyLogic *Dave Buxton*** |
| 16:00 | **Break - coffee, tea - Litchfield Lounge** | | | | | |
| 16:30 |  | **WORKSHOP Deciphering**  **a Puzzle**  **as a Data Scientist.**  *Sayara Beg* | **WORKSHOP From Theory**  **to Reality - What else**  **do I need**  **to be an**  **OR consultant? *Kuangyi Liu*** | **WORKSHOP Running Outreach Events:**  **a game theoretic exemplar** ***Vince Knight*** | **WORKSHOP How OR is Practically**  **used**  **within**  **the Airline Industry** ***Rasseeda***  ***Virgo and*** *Andrew Long* | **WORKSHOP** **Simulation Modelling**  **with**  **AnyLogic *Dave Buxton*** |
| 17:30 | Close Wednesday 23 September | | | | | |

**YOR19 Thursday 24 September 2015**

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|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 08:30 | **Registration - coffee, tea - Litchfield Lounge** | | | | | |
| 09:30 |  | A Young OR Guide  **Pro Bono**  **O.R.** *Felicity*  *McLeister* | Disaster Management  **Business Continuity Planning**  **For Smes** *Puttipong Anantasopon* | Stochastic Modelling  **Modelling**  **of Chest Pain within ED** *Andrew*  *Salmon, Chris Hyde,*  *Martin Pitt, Sebastian Rachuba,*  *Scott Watkins*  *and Zhivko*  *Zhelev* | Energy &  Climate Change  **Interactive Session: National Household Model** *Kieran*  *Ingram and Phoebe*  *Zhang* | Health **Process Management in**  **Healthcare Delivery** *Ganye*  *Kwah-*  *Driscole* |
| 10:00 | DEA  **Dynamic Framework**  **for Queues**  **in**  **Developing Nations** *Komal Aqeel Safdar,*  *Prasanta Kumar Dey and*  *Ali Emrouznejad* | A Young OR Guide  **Have Your**  **Say: Developing**  **The OR Society's**  **New Web** *Louise Allison*  *and Navin*  *Mair* | Disaster Management  **A Time**  **Series Approach**  **for Wave Height Prediction** *Siobhan Moran, Jim Duggan*  *and Enda*  *Howley* | Stochastic Modelling **Queueing Networks for**  **a Healthcare System.** *Geraint Palmer and Paul*  *Harper* | Health  **Dissecting the UK Military Medical Chain** *Michael*  *Hartley and*  *Laura*  *Brudenell* |
| 10:30 | DEA  **Analysis**  **of**  **Performance**  **of**  **Incineration Plants** *Konstantinos Petridis and Prasanta Dey* | Metaheuristics **Designing Metaheuristics** *Alina Patelli,*  *Nelly Bencomo, Aniko Ekart,*  *Harry Goldingay and*  *Peter Lewis* | Disaster Management  **Nurse Emergency**  **and Disaster Preparedness** *Fuad*  *Alzahrani* |  | Energy &  Climate Change  **New Build, New Opportunity** *Anthony*  *Collins* | Health  **ER Rules**  **for Asthma Control Stages Prediction** *Huaying Zhu, Jian-bo Yang*  *and*  *Dong-ling*  *Xu* |
| 11:00 | **Break - coffee, tea - Litchfield Lounge** | | | | | |

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| **YOR19 Thursday 24 September 2015** | | | | | | |
|  | **Steelhouse LT** | **Stafford 1** | **Stafford 2** | **White Hall 1** | **White Hall 2** | **White Hall 3** |
| 11:30 | DEA **Assessment**  **of Police Stations**  **using DEA** *Rhoda Namoco*  *and Alfredo*  *Vicera Jr.* | Metaheuristics **Vehicle Routing using Iterated Greedy Local Search** *Abdulwahab Almutairi,*  *Dylan Jones, Angel Juan, Banfsheh*  *Khosravi and Djamila Ouelhadj* | Disaster Management **EXT.ABSTRACT**  **Effect of Coordination for Relief Distribution** *Priyanka Roy, Pavel Albores, Christopher Brewster and Chris Owen* | Defence &  Security  **Army Regular**  **/ Reserve**  **Cost Comparison** *Ashley*  *Smith* | Energy &  Climate Change **Challenges**  **of Weather**  **and Climate Modelling** *Matthew Mizielinski, Robert Dunn*  *and Nick Dunstone* | Health  **Work System Redesign in Specialty Clinics** *Edmond*  *Ramly*  *and Christie*  *Bartels* |
| 12:00 | DEA  **DEA-Chinese MSW Incinerators Efficiency Assessment** *Konstantinos Petridis, Vinay Dutta Vemula and Prasanta K Dey* | Metaheuristics  **Weights Distribution**  **And Instance Hardness** *Khulood*  *Alyahya and Jonathan*  *Rowe* | Disaster Management  **PREDIS Evaluation** *Sara Hasani,*  *Emel Aktas*  *and*  *Ramzi El-Haddadeh* | Defence &  Security  **Managing Defence Acquisition Growth** *Ryan Watson, David Bangert and Neil*  *Davies* | Supply Chain  **Scheduling Handling Operations**  **in a Storage**  **Yard** *Sam Heshmati,*  *Wim Vancroonen-*  *Burg and*  *Greet Vanden Berghe* | Health  **Interactive Planning**  **for Assisted Living Quality** *Edmond*  *Ramly* |
| 12:30 | DEA **KEYNOTE:**  **Identifying**  **Cost**  **Efficient**  **Health Care Practice** *Emmanuel Thanassoulis* | Metaheuristics  **Artificial Immune**  **System for**  **MO Optimization** *Ayush Joshi, Jonathan*  *Rowe*  *and Christine Zarges* | Disaster Management  **PREDIS (Predictive Disaster Decision Technique)** *Sara Hasani,*  *Emel Aktas*  *And Ramzi El-Haddadeh* | Defence &  Security **Monitoring**  **The Health**  **of the**  **Defence Enterprise** *Karen Chapman* | Supply Chain  **Vehicle Fill**  **Vs Service**  **Level in Simulation** *Victoria*  *Forman* | Health  **Budget Impact Analysis in Animal Health** *Nikco Hau*  *And*  *Sam Mettam* |
| 13:00 | **Lunch - Litchfield Lounge - HALF an HOUR** | | | | | |
| 13:30 | **Plenary - Steelhouse Theatre**  ***‘Fan Engagement in Sport’  Alex Phillips, IBM UK Ltd*** | | | | | |
| 14:30 | **Careers Panel – Steelhouse Theatre**  **Discussion on topical career issues followed by a Question and Answer session *Pavel Albores, Aston University - Mark Chapman, Prospect Recruitment  Jon Nicholas, LLamasoft Europe – Alex Phillips, IBM United Kingdom Ltd*** | | | | | |
| 16:00 | Conference Close | | | | | |