

Monday 31 March

		TRACK 1 DEVONSHIRE	TRACK 2 CAVENDISH	TRACK 3 DERBY
12:00	13:00	Registration (all day)		
13:00	14:00	Light lunch / refreshments		
		Tutorial	Tutorial	Africa Focus 1 <i>Hybrid Session</i>
14:00	15:30	A TUTORIAL ON KRIGING-BASED STOCHASTIC SIMULATION OPTIMIZATION Sasan Aminii and Ineke Van Nieuwenhuyse	BUILDING HEALTHCARE DISCRETE-EVENT SIMULATION MODELS IN FREE AND OPEN SOURCE SOFTWARE: AN INTRODUCTORY TUTORIAL Thomas Monks, Alison Harper, Amy Heather, Andrew Mayne and Navonit Mustafee	Virtual presentation: SYSTEM DYNAMICS POLICY IMPACT ASSESSMENT OF THE WATER-ENERGY-FOOD-ECOSYSTEM NEXUS IN THE INKOMATI-USUTHU WATER MANAGEMENT AREA, SOUTH AFRICA Janez Susnik, Blaine Haupt, Daniella Kristensen, Gareth Simpson, Antonio Trabucco and Roberto Roson Virtual presentation: SOLVING A REAL COMPLEX SCHEDULING PROBLEM WITH A SIMULATION-BASED OPTIMIZATION METHOD Chakib Medjkane, Yasmine Rihane and Nacira Chikhi
15:30	16:00	Refreshment Break		
		Tutorial	Methods	Conceptual modelling
16:00	17:30	WANT TO BUILD A MOONBASE? THE SIMULATION EXPLORATION EXPERIENCE (SEE) Maziar Ghorbani, Simon J E Taylor, Nura Tijjani Abubakar, Hridayanshu Aatreya, Damon Curry and Anastasia Anagnostou	EVALUATE AIRLINE SCHEDULE ROBUSTNESS Elisa Guardo-Martinez, Stephan Onggo, Martin Kunc, Maurizio Tomasella and Silvia Padron ISOCHRONO MAPS FOR MILITARY GROUND MOVEMENT: INFORMATION INFERENCE BY INTERSECTION Alexander Roman and Oliver Rose NETLOGO USING PYTHON Nourddine Bouaziz, Belgacem Bettayeb, M'Hammed Sahnoun and Adnan Yassine	CHIP AWAY EVERYTHING THAT DOESN'T LOOK LIKE AN ELEPHANT John Salt DEVELOPING A CONCEPTUAL MODEL TO EVALUATE SHELF-LIFE EXTENSION AS A RESILIENT STRATEGY IN HUMAN MILK BANKS Marta Staff, Navonit Mustafee and Natalie Shenker DEVELOPING HYBRID KIDNEY CARE MODELS WITH FACILITATED MODELLING Stacey Croft, Antuela Tako, Yun He, Sally Thompson and Mark Lambie
Optional dinner/drinks at Imperial Hotel (at own cost)				

Tuesday 1 April

		TRACK 1 DEVONSHIRE	TRACK 2 CAVENDISH	TRACK 3 DERBY
08:30	09:00	Registration (all day)		
09:00	09:15	Welcome address		
		Keynote Address: Mamadou Kaba Traore		
09:15	10:00	MULTI-SCALE AND MULTI-PERSPECTIVE DIGITAL TWIN: EXPERIENCE WITH AN URBAN LIVING LAB		
10:00	11:00	Sponsors and Poster Session		
11:00	11:30	Refreshment Break		
		Supply chain	Healthcare 1	Africa Focus 2 <i>Hybrid Session</i>
11:30	13:00	SUPPLY CHAIN DEVELOPMENT FOR CIRCULARITY IN AEROSPACE: AIRCRAFT SEAT CASE STUDY Marco Franchino, Christopher Haynes and Cansu Kandemir	OPERATIONAL VALIDATION USING SIMULATION MODELS DESIGNED AND CREATED WITH DIFFERENT PARADIGMS Bożena Mielczarek	Virtual presentation: DEVELOPING HYBRID KIDNEY CARE MODELS WITH FACILITATED MODELLING Ibrahim Kridi, Tawfiq Tabouche and Imène Alt Abderrahim
		LOGISTICS NETWORK DESIGN FOR A SUSTAINABLE BLOOD SUPPLY CHAIN UNDER DISASTERS USING A SIMULATION APPROACH Lama Soliman Khaled, Ahmad Attar, Martino Luis and Baris Yuca	LESSONS LEARNT FROM THE DESIGN AND DELIVERY OF A NATIONAL SYSTEM DYNAMICS TRAINING PROGRAMME TO THE NATIONAL HEALTH SERVICE IN ENGLAND Siôn Cave, Vanessa Perez Perez, Stephen Curram and Emma Woodham	Virtual presentation: OPTIMIZING WASTE TREATMENT CENTER LOCATIONS: A MATHEMATICAL MODELING AND SIMULATION APPROACH Younes Abderrahim, Salah Eddine Bellal and M'Hammed Sahnoun <i>In person:</i> IS: AFRICAN FEDERATION OF OPERATIONAL RESEARCH SOCIETIES: AN OPPORTUNITY TO BUILD BRIDGES TO OPERATIONS RESEARCH AND SIMULATION DEVELOPMENT IN AFRICA Mehdi Souler and Safa Bhar Layeb
		DOES CUSTOMER ORDER MATTER? EXPLORE THE DYNAMICS OF LOST-SALES REMANUFACTURING SYSTEM UNDER AR(1) DEMAND Yan Lu and Junyi Lin		
13:00	14:00	Lunch		
		Manufacturing	Healthcare 2	Optimisation
14:00	15:30	A DES-BASED ONLINE DIGITAL TWIN FRAMEWORK FOR FESTO'S CYBER-PHYSICAL SYSTEM: INDUSTRY 4.0 Muhammad Alfas, Yanyan Tian, Ahmad Attar, Martino Luis and Voicu Ion Sucala	STRATEGIC WORKFORCE MODELLING AND ANALYSIS AT NHS WALES: TOWARDS A STRATEGIC DIGITAL TWIN OF THE WELSH HEALTHCARE WORKFORCE Siôn Cave and Ryan Cunningham	MULTI-OBJECTIVE AIRPORT SIMULATION-BASED OPTIMISATION USING DES AND RESPONSE SURFACE METAMODELS Ahmad Attar, Mahdi Babae, Sadigh Raisi and Majid Nojavan
		FROM BLUE-SKY CONCEPT TO INDUSTRIAL DEPLOYMENT: HOW OCADO TECHNOLOGY USED SIMULATION TO GUIDE THE DEVELOPMENT OF THE WORLD'S MOST ADVANCED GROCERY PICKING ROBOT Robert Backhouse, Sean Schrauben and Gareth Siret	EVALUATING THE IMPACT OF STAFFING RECOMMENDATIONS IN MATERNITY UNITS IN FRANCE Louis Niffoi, Ouaid Jouini, Marija Jankovic, Pierre-François Ceccaldi and Guillaume Lamé	GENERATORS FOR LARGE-SCALE STOCHASTIC SIMULATION-OPTIMIZATION EXPERIMENTS Renee Oswalt and David Eckman
		DISCRETE EVENT SIMULATION WITH REINFORCEMENT LEARNING FOR ADVANCED MANUFACTURING DECISION-MAKING Cansu Kandemir and Marco Franchino	SIMULATION MODELLING OF DELAYED DISCHARGE FROM HOSPITAL Ranga Abeysooriya, Nirmani Amarasinghe, Laura Boyle, Christine Currie and Carlos Lamas-Fernandez	DO WE NEED SIMULATION OPTIMISATION FOR QUEUEING ALLOCATION PROBLEMS? Luke Rhodes-Leader and Yu-Ting Lin
15:30	16:00	Refreshment Break		
		Methods	Healthcare 3	Agent-based modelling
16:00	17:30	SIMULATION METAMODELLING VIA LOCAL LINEAR INTERPOLATION Varun Ramamohan, Deep Bansal, Harsh Vardhan Singh and Yash Sarju Shah	MODELLING LONG-TERM CHANGES IN POPULATION HEALTH STATE AND ASSOCIATED HEALTHCARE RESOURCE REQUIREMENTS Zehra Onen-Dumlu, Luke Shaw, Richard Wood and Christos Vasilakis	THE SIMPLEST, BUT NO SIMPLER, AGENT-BASED MODEL Charles Macal
		ONTOLOGICAL GRAPH BASED MODELLING AND SIMULATION Steven Jones, Ben Lomax Thorpe and César Mardomingo Alonso	DISCRETE EVENT SIMULATION TO UNDERSTAND AMBULANCE PERFORMANCE AND IMPROVEMENT STRATEGIES Martina Bargean Fonseca and Jonathan Pearson	HIERARCHICAL HYBRID SIMULATION MODELING OF BACTERIAL DISEASE INFECTION Avi Roy Chowdhury, Jayendran Venkateswaran and Om Damani
		TOWARDS CONTAINER-BASED SIMULATION: A CONCEPT FOR A DISTRIBUTED AND SCALABLE SIMULATION FRAMEWORK Daniel Seufferth, Falk Stefan Pappert and Oliver Rose	NAVIGATING HOSPITAL OPERATIONS THROUGH SIMULATION: A STUDY OF URBAN FLOODING DISASTERS AND PHYSICAL DAMAGE IMPACT Sorour Farahi, Steffen Bayer, Sally Brailsford and Stephan Onggo	APPLICATION OF HYBRID AGENT-BASED MODELING AND SYSTEM DYNAMICS SIMULATION: COLLABORATION TO IMPROVE SUPPLY CHAIN RESILIENCE Davoud Hosseinmezhad, Cathal Heavey and Fooroooh Goodarzi
17:30	18:30	Journal of Simulation EAB meeting		
19:00	19:30	Drinks Reception		
19:30	22:00	Gala Dinner- at University of Exeter		

Wednesday 2 April

		TRACK 1 DEVONSHIRE	TRACK 2 CAVENDISH	TRACK 3 DERBY
08:30	08:45	Registration (all day)		
08:45	09:30	<p align="center">Keynote Address: Christine Currie DIGITAL TWIN SIMULATION FOR OPERATIONAL DECISION MAKING</p>		
09:30	11:00	<p align="center">Health and care</p>	<p align="center">ARSINOE: Simulation for climate resilience</p>	<p align="center">Africa Focus 3 <i>Hybrid Session</i></p>
		<p>DEVELOPING, VERIFYING AND VALIDATING A SIMULATION PLATFORM TO IMPROVE RESOURCE PLANNING FOR THE NSPCC HELPLINE <i>Jess Cole and Stephen Pollard</i></p>	<p>TOWARDS A DIGITAL TWIN FOR EMERGENCY RESPONSE: A HYBRID SIMULATION FOR MULTI-SECTORAL RESOURCE ALLOCATION <i>Otto Chen, Navonil Mustafee, Qian Li, Barry Evans, Mehdi Khoury, Lydia Vamvakieridou-Lyroudia, Albert Chen, Slobodan Djordjevic and Dragan Savic</i></p>	<p>In-person: EVALUATING PRODUCTION EFFICIENCY IN AN ALGERIAN PLASTIC PACKAGING COMPANY USING ARENA SIMULATION <i>Sara Fatima Zohra Megalz, Fouad Maliki, Mehdi Souier and Mohammed Dahane</i></p>
		<p>MODELLING FOR SIMULATION MULTI-USE – TOWARDS A FRAMEWORK FOR COST-EFFECTIVENESS ANALYSES OF REPERFUSION TREATMENTS FOR ACUTE STROKE <i>Chi Nguyen, Durk-Jouke van der Zee, Maarten M.H. Lahr, Maarten Uyttenboogaart and Erik Buskens</i></p>	<p>CREATING AND OPERATING A SIMULATION-BASED DIGITAL TWIN SERVICE FOR HYDROLOGIC FLOOD <i>Gareth Lewis, Mehdi Khoury, Qian Li, Barry Evans, Albert Chen, Lydia Vamvakieridou-Lyroudia, Nav Mustafee, Slobodan Djordjevic and Dragan Savic</i></p>	<p>In-person: IMPROVING DIABETES TREATMENT OUTCOMES: AN AGENT-BASED MODEL OF PATIENTS' SELF-MANAGEMENT BEHAVIOURS AND TREATMENT OUTCOMES IN GHANA <i>Eunice Twumwaa Tagoe, Itamar Megiddo and Robert Van Der Meer</i></p>
		<p>A CONCEPTUAL FRAMEWORK FOR PROMOTING SUSTAINABILITY IN SIMULATION OF HOSPITAL PHARMACY ASEPTIC UNITS <i>Fatemeh Alidoost, Navonil Mustafee, Thomas Monks, Alison Harper and Alice Harrison</i></p>	<p>ENHANCING RESILIENCE OF INTERDEPENDENT INFRASTRUCTURE NETWORKS THROUGH A CRITICALITY RANKING APPROACH <i>Georgios Alexandros Chatzistefanou, Albert Chen, Slobodan Djordjevic, Lydia Vamvakieridou-Lyroudia and Dragan Savic</i></p>	<p>In-person: EVALUATING POOLED PROCUREMENT AND INVENTORY MANAGEMENT FOR ESSENTIAL MEDICINES IN NIGERIA <i>Viraj Joshi, Mikaela Polyviou, John Fowler, Eugene Schneller and Adegoke Oke</i></p>
11:00	11:30	Refreshment Break		
11:30	12:30	Panel		
12:30	13:30	Lunch		
13:30	14:00	ORS SimSIG		