

Monday, July 19th

8.30 - 9.00	Registration	
9.00 - 10.00	ORAHS Welcome	
10.00 - 11.00	Plenary session Gino Gumirato. Inside the US Health Care Reform	
11.00 - 11.30	Coffee Break	
11.30 - 13.00	M1_A	M1_B
	Patient flow (1)	Epidemiology & Disease modelling (1)
	<ol style="list-style-type: none"> Daniel Gartner, Rainer Kolisch: DRG-based resource allocation and patient flow management in hospitals Maria de Lourdes Guzman Castillo, Sally Brailsford, Honora Smith: Modelling patient length of stay in Mexican public hospitals Yasar A. Ozcan: Clinical Pathways: A dual approach to implement and assess Clinical Pathways Dave Worthington, Philip Worrall: Long Term Planning for COPD in Derbyshire County PCT 	<ol style="list-style-type: none"> Nikolaos Rachaniotis, Tom Dasaklis, Costas Pappis: A deterministic scheduling model in epidemic's control with multiple resources A.R. Rutherford, Pouya Bastani, Bojan Ramadanovic, Krisztina Vasarhelyi, Rolando Barrios: Reducing HIV-related Acute Care Admissions through Drug Treatment Program Expansion Israel T. Vieira, Valter de Senna: Simulation model for the evaluation of HIV vaccine intervention Christian Viladent, Ann van Ackere: A deterministic model to assess the impact of circumcision and other interventions in countries with generalized HIV epidemic. An application to Botswana
13.00 - 14.15	Lunch	
14.15 - 15.45	M2_A	M2_B
	Appointment scheduling	Epidemiology & Disease modelling (2)
	<ol style="list-style-type: none"> Mehmet A. Begen, Retsef Levi, Maurice Queyranne: Exact and Sampling-Based Methods for Appointment Scheduling with Discrete Random Durations Arda Ceylan, Murat M. Günal: A Generic Outpatient Appointment System Simulation Model Domenico Conforti, Francesca Guerriero, Rosita Guido: Week Hospital Inpatient Flow Management Zhecheng ZHU, Bee Hoon HENG, Kiok Liang TEOW: Application of Genetic Algorithm on Outpatient Clinic Appointment Scheduling 	<ol style="list-style-type: none"> Sally Brailsford, Christine Currie, Paul Davie: Modelling for seasonal influenza: combining agent-based simulation and social network models Paula A. González-Parra, Leticia Velázquez, Maria C. Villalobos, Gerardo Chowell, Carlos Castillo-Chávez: Optimal Control Applied to a Discrete Influenza Model Mariagrazia Mecoli, Vanda De Angelis, Sally C. Brailsford: Modelling intervention strategies for mosquito-borne diseases: The case of human travel between geographical regions Christina Pagel, Sonya Crowe, Guy Walker, James Haybyrne, Peter Grove, Martin Utley: Can we mitigate the effects of an influenza pandemic by vaccinating against pneumonia?
15.45 - 16.15	Coffee Break	
16.15 - 17.15	M3_A	M3_B
	OR planning and scheduling (1)	Logistics (1)
	<ol style="list-style-type: none"> Isabelle Beaulieu, Michel Gendreau, Patrick Soriano: Operating Rooms Scheduling under Uncertainty Domenico Conforti, Maria Elena Bruni, Patrizia Beraldi: Scheduling operating rooms under uncertainty: a stochastic programming approach Elena Tànfani, Angela Testi, Rene Alvarez: A two-level resolution approach for the stochastic OR planning problem 	<ol style="list-style-type: none"> Giuliana Bensa, Stefano Villa, Isabella Giusepi: Costs and benefits of innovation in healthcare logistics: evidences from two case studies Mário Jorge Ferreira de Oliveira, Rodrigo Abrunhosa Collazo, Leonardo Antonio Monteiro Pessôa, Leonardo Claro Garcia: Simulation of multiple views of medicine distribution in a navy hospital pharmacy Laura Gaetano, Gabriella Balestra: An innovative procedure for the localization of health care devices and services
17.15 - 21.30	Guided tour of Genova and Reception at Town Hall (Palazzo Tursi)	

Tuesday, July 20th

	T1_A	T1_B
9.00 - 10.30	<p style="text-align: center;">OR planning and scheduling (2)</p> <ol style="list-style-type: none"> Roberto Aringhieri, Paolo Landa, Patrick Soriano, Elena Tanfani, Angela Testi: A Tabu Search approach for joint operating room assignment and scheduling Michele Ciavotta, Gabriella Dellino, Carlo Meloni, Marco Pranzo: A Rollout Algorithmic Approach for Complex Parallel Machine Scheduling in Healthcare Operations Domenico Conforti, Francesca Guerriero, Rosita Guido: Operating Room Planning and Scheduling: a Multiobjective Model solved via Genetic Algorithm Mohammad-Taghi Fatemi-Ghomi, Saeedeh Ketabi, Mehdi Mahnam: Surgical Services Efficiency and Hospital Capacity 	<p style="text-align: center;">Planning health services (1)</p> <ol style="list-style-type: none"> Nancy Khurma, Zbigniew J. Pasek: Analysis, Modeling and Improvement of Patient Discharge Process in a Regional Hospital Guoxuan Ma, Erik Demeulemeester: Assessing the performance of capacity planning through simulation analysis Jonathan Patrick: Capacity Planning and Scheduling for Long Term Care Peter Vanberkel: Hospital Expansion Planning-Achieving Treatment Growth Targets
10.30 - 11.00	Coffee Break	
	T2_A	T2_B
11.00 - 12.30	<p style="text-align: center;">EMS (1)</p> <ol style="list-style-type: none"> Bernardetta Addis, Roberto Aringhieri, Giuliana Carello, Andrea Grosso, Francesco Maffioli: Models for the optimal composition of medical crews in emergency services. Edoardo Amaldi, Stefano Coniglio, Claudio Iuliano: Single and multi-group evacuation in medium and maxi health-care emergencies Tomi Malmström, Paulus Torkki, Raija Malmström: Triage and routing of emergency patient – optimal level for triage Monia Rekik, Jacques Renaud, Angel Ruiz: Design of Logistics Networks for Disaster Relief 	<p style="text-align: center;">Planning health services (2)</p> <ol style="list-style-type: none"> Tom Bowen: Idealised Design and Modelling of Alternatives to Hospital Care Paul Harper: Discrete conditional phase-type models utilising classification trees: application to modelling maternity services Penelope Mullen: Establishing weighting criteria for prioritising health care services for professionals, patients and the public Honora Smith: Predicting future capacity needs for healthcare services at strategic and tactical levels
12.30 - 13.45	Lunch	
13.45 - 17.30	Inside the Italian Health Care System: Gaslini Children Hospital Tour	
17.30 - 19.30	T3 (Symposium)	
	“Modelling the care of younger people”	
	<ol style="list-style-type: none"> Giada Aspergh, Paola Facchin, Anna Ferrante, Giorgio Romanin-Jacur, Laura Visonà-Dalla-Pozza: Pediatric palliative care organization simulation model Michela Chessa, Stefano Gagliardo: Where Is the Profit in Rare Diseases Research? Sonya Crowe, Christina Pagel, Kate Bull, Matthew Fenton, Christos Vasilakis, Steve Gallivan, Martin Utley: Applying OR to the problem of paediatric heart transplant waiting lists and ‘bridging’ technologies Paola Facchin, Anna Ferrante, Elena Rizzato, Giorgio Romanin-Jacur, Laura Salmaso: Perinatal Assistance Network Planning Via Simulation Paul Forte: Workforce modelling in paediatric gastroenterology 	

Wednesday, July 21st

W1 (Symposium)

“Modelling the care of older people”

9.00 - 11.00

1. **Paul Forte, Tom Bowen:** The Balance of Care approach: modelling complexity in services for older people
2. **Mårten Lagergren:** Longitudinal area-databases for monitoring and analysis of the care-of-the-elderly system in Sweden
3. **Duncan Boldy:** Modelling the determinants of resident satisfaction in aged care facilities
4. **Giulia Garavaglia, Emanuele Lettieri, Tommaso Agasisti, Cristina Masella, Salvatore Silvano Lopez :** Patient-centered care and efficiency in nursing homes
5. **Angela Testi, Enrico Ivaldi, Elena Tanfani:** Assessing nursing home costs: a patient-centered perspective

11.00 – 11.30

Coffee Break

W2_A

OR planning and scheduling (3)

1. **Rene Alvarez, Richard Bowry, Michael Carter:** Prediction of the Time to Complete a Series of Surgical Cases to Avoid Operating Room Overutilization
2. **Fabio Fruggiero, Alfredo Lambiase, Alessandro Braione:** Towards an optimal mix in planning and scheduling of operating theatres
3. **Jan Vissers, Ivo Adan, Jos Bekkers, Nico Dellaert, Jully Jeunet:** Improving operational effectiveness of tactical master plans illustrated with cardiothoracic surgery
4. **Cheryl Voake, Jeff Griffiths, Janet Williams:** Modelling trauma hip fracture patients: the impact on operating theatres and the orthopaedic ward

W2_B

Epidemiology & Disease modelling (3)

1. **Marek Lubicz, Piotr Piszko, Bożena Mielczarek, Jacek Zabawa:** Quantitative Decision Support for CardioVascular Medicine: WROVASC project
2. **Nishikant Mishra, Sanja Petrovic, Santhanam Sundar:** Self-adaptive case based reasoning for dose planning in radiotherapy
3. **Syed Mohiuddin, Sally Brailsford:** Enabling health, independence and wellbeing for bipolar patients via Personalised Ambient Monitoring (PAM)
4. **Martin Utley, Francesca Fiorentino, Tom Treasure:** Obtaining an upper estimate of the survival benefit associated with major surgery for mesothelioma

11.30 - 13.00

13.00 – 19.30

Boat trip to San Fruttuoso e Portofino

19.30 – Late

Farinata, Focaccia al formaggio & wine...

Thursday, July 22nd

	TH1_A	TH1_B	TH1_C
9.00 - 10.30	<p style="text-align: center;">Patient flow (2)</p> <ol style="list-style-type: none"> 1. Maria Barton, Sally McClean, Lailt Garg, Ken Fullerton: The economic benefit of thrombolysis for post-stroke community care - A simulation model 2. Auður Friðriksdóttir, Leonid Churilov, Helen M. Dewey: Modelling acute stroke thrombolysis pathways with Value-Focused Process Engineering 3. Elena Gatti, Davide Luciani, Fabio Stella: A Continuous Time Bayesian Network model for cardiogenic heart failure 4. Martin Pitt: Modelling the impact of extending the onset to treatment time of thrombolysis for acute ischaemic stroke from 3 to 4.5 hours 	<p style="text-align: center;">Advanced models</p> <ol style="list-style-type: none"> 1. Amedeo Fossati, Marcello Montefiori: Funding long term care 2. Maura Francese, Marzia Romanelli: Health Care in Italy: Expenditure Determinants and Regional Differentials 3. Vincent Knight: Measuring the Inefficiency of Choice 4. Marina Resta: On the financial health of Italian hospital facilitators: an empirical investigation through correlation-based networks 	<p style="text-align: center;">Simulation</p> <ol style="list-style-type: none"> 1. Karen J Cairns, Christine R Allen Adele H Marshall: Assessing different deployment plans of a colorectal screening programme through discrete event simulation 2. Lene Berge Holm, Fredrik A. Dahl: Simulating the impact of a 45% increase in patient volume at Akershus University Hospital 3. Sule Kaya, Elcin T.Cakmak, Murat M.Gunal, H.Kemal Sezen, Selcuk Onart: Simulation Project for an Ear-Nose-Throat Clinic 4. Jennifer Morgan, Susan Howick, Valerie Belton: Considering Combining: Exploring a mixed approach of SD and DES to develop understanding within an Oncology Unit
10.30 – 11.00	Coffee Break		
11.00 - 12.30	<p style="text-align: center;">TH2_A</p> <p style="text-align: center;">EMS (2)</p> <ol style="list-style-type: none"> 1. Saeedeh Ketabi, Sima Ajami: Emergency Process Improvement By Lean At Kashani Hospital in Isfahan, Iran 2. Julie Williams, Paul Harper, Jonathan Gillard: Predicting Emergency Medical Service Demand in Wales using Singular Spectrum Analysis 3. Erhan Kozan: Optimisation of patient flows at emergency departments 4. Roberto Aringhieri, Marco Gribaudo: A Petri nets model for the analysis and the evaluation of an EMS. 	<p style="text-align: center;">TH2_B</p> <p style="text-align: center;">Planning health services (3)</p> <ol style="list-style-type: none"> 1. Timothy Bolt, Steffen Bayer, Maria Kapsali, Sally Brailsford: Lessons from Parallel SD Model-Building for National and Local Projects 2. Thierry Chausalet, Eren Demir, Salma Chahed, and Farid Fouladinejad: A tool for supporting Health Service Re-design decisions 3. Maria Pia Fanti, Giorgio Iacobellis, Walter Ukovich: A metamodeling approach to health care system management 4. Christos Vasilakis, Christina Pagel, Steve Gallivan, David Richards, Martin Utley: A software tool for assisting with the reconfiguration of the UK mental health services 	<p style="text-align: center;">TH2_C</p> <p style="text-align: center;">Staff planning and scheduling</p> <ol style="list-style-type: none"> 1. Ilgin Poyraz Acar, Steven E Butt: Modeling nurse-to-patient assignments on a hospital unit 2. Julien Crowe, Patrick Soriano: Flexible personnel scheduling in Healthcare 3. Paulien Out, Sandjai Bhulai: Optimal personnel planning and admission scheduling in rehabilitation facilities 4. Egbert van der Veen, Bart Veltman: Do what must be done: no more, but certainly no less
12.30 – 13.45	Lunch		
13.45 – 15.15	<p style="text-align: center;">TH3_A</p> <p style="text-align: center;">EMS (3)</p> <ol style="list-style-type: none"> 1. Roberto Aringhieri, Maria Elena Bruni: A new maximum reliability model for locating and dispatching ambulances 	<p style="text-align: center;">TH3_B</p> <p style="text-align: center;">Epidemiology & Disease modelling (4)</p> <ol style="list-style-type: none"> 1. Arjan Shahani: A new approach for prevention and treatment of chronic diseases 2. Martin Utley, Christina Pagel, Steve Gallivan, Nick Barber: 	<p style="text-align: center;">TH3_C</p> <p style="text-align: center;">Home care</p> <ol style="list-style-type: none"> 1. Zdeněk Baumelt, Libor Waszniowski, Přemysl Šůcha, Zdeněk Hanzálek: Integrated Vehicle Routing and Rostering for the Home

	<ol style="list-style-type: none"> 2. Vito Fragnelli, Stefano Gagliardo: Relocating ambulances at the end of rescue missions 3. Valérie Bélanger, Angel Ruiz, Patrick Soriano, Roberto Wolfler Calvo: A re-optimization approach applied to emergency medical services management 4. Enrico Di Bella, Marcello Montefiori: Modelling activity and costs of health emergency department 	<p>Modelling feedback effects in the adherence of patients to medication</p> <ol style="list-style-type: none"> 3. Sonia Vanderby, Michael Carter: Modelling the Mental Health & Addictions “System” in Ontario, Canada 4. Joe Viana, Sally Brailsford, Paul Harper, Veerkathy Harindra: Evaluation of a composite System Dynamics, Discrete Event Simulation in a Sexual Health context 	<p>Health Care Services</p> <ol style="list-style-type: none"> 2. Emna Benzarti, Evren Sahin and Yves Dallery : Operations management in Home Health Care: complexity factors and literature review 3. Mario Lučić, Federico Malucelli, Maddalena Nonato, Alessandra Galletti, Caterina Montanari: An optimization tool for planning health home care services 4. Kian Seyed, Andrea Matta, Ettore Lanzarone, Mohsen Jafari: Application of Semi-Markov Processes in Modelling Patient Duration of Stay in a Home Care Service
15.15 – 15.45	Coffee Break		
	TH4_A	TH4_B	
15.45 - 17.15	<p style="text-align: center;">Logistics (2)</p> <ol style="list-style-type: none"> 1. John Blake, Matthew Hardy: Modelling Red Cell Inventory and Ordering Policies 2. Nicola Costantino, Mariagrazia Dotoli, Marco Falagario, Maria Pia Fanti, Agostino Marcello Mangini, Fabio Sciancalepore, Walter Ukovich: Optimal design of distribution networks: an application to the hospital drug distribution system 3. Alfonso Edgar, Xie Xiaolan, Augusto Vincent: Discrete-event simulation of donor flow in blood components collection 4. Yannick Kergosien, Christophe Lenté, Jean-Charles Billaut: A Memetic algorithm for the design of hospital material flows 	<p style="text-align: center;">Planning health services (4)</p> <ol style="list-style-type: none"> 1. Sima Ajami, Saeedeh Ketabi, Sakine Saghaeinejad Isfahani, Akram Sadeghian: Improving the Medical Records Processes at Ayatolah Kashani Hospital in Isfahan, Iran by Lean Management 2. Cristina Azcárate, Fermín Mallor: Integration of medical decisions into an Intensive Care Unit simulation model 3. René Bekker, Paulien Out: Clinical wards and the impact of elective admissions 4. Jonathan E. Helm, Mark P. Van Oyen: Design and Optimization of a Hospital Inpatient Bed Management System 	
19.15 – Late	Conference Dinner		

Friday, July 23th

	F1_A	F1_B	F1_C
9.00 - 10.45	<p style="text-align: center;">Patient flow (3)</p> <ol style="list-style-type: none"> 1. Aleida Braaksma, Nikky Kortbeek, Gerhard Post, Kees Bijl: Integral multidisciplinary rehabilitation treatment planning 2. Erwin W.Hans, Nikky Kortbeek, Jasper R. Van Sambeek, Jelmer Kranenburg: Feasibility of walk-in: a case study of CT-scanners 3. Nikky Kortbeek, Maartje Zonderland, Richard Boucherie, Nelly Litvak: The feasibility of walk-in: a formal analysis 4. Kristian Rotaru, Andrzej Ceglowski, Kim Langfield-Smith: Developing a patient-flow supply chain reference model to enhance performance management in healthcare 5. Stefano Villa, Giuliana Bensa, Isabella Giusepi, Anna Prenestini: A framework for the analysis of hospital patient flows: the results of an Italian benchmarking study 	<p style="text-align: center;">Quality</p> <ol style="list-style-type: none"> 1. Luc Delesie, Marc Haspeslagh, Kristof Eeckloo: An inconvenient truth: bias in qualitative variables for OR modeling 2. Alberto Franci, Caterina Gurrieri, Mario Corsi: The assessment of hospital staff satisfaction 3. Alberto Franci, Caterina Gurrieri, Mario Corsi, Greta Brardinoni: Job satisfaction among social workers in the Marches Region in Italy 4. Cinzia Panero, Anna Maria Murante, Giovanni Perucca: The Patient needs and the answer General Practitioner: the Italian citizens experience. 5. David E. Puga-Bolio: Applying Problem Structuring Methods to Patient Safety Research: a case study of the implementation of the Patient Safety First Campaign 	<p style="text-align: center;">Software and Projects</p> <ol style="list-style-type: none"> 1. Barbara Canesi, Luca Corradi, Ornella Mazzetti, Ivan Porro, Nicola Rosso: SurgiQ, waiting list management made easy 2. Orla Treacy, Mark Turner: Using Data Systems to improve Patient Centred Care 3. Steven J Burnell: TeamFocus: Community Mental Health Services 4. Salah Uddin Ahmed: Private Public partnership: An experience sharing of Blue Star Social franchising program 5. Georghe Bacioiu, Zbigniew J. Pasek: Development of a Personalized Health Decision Support System
10.45 - 12.15	ORAHs Executive Meeting		
12.15 - 13.45	<i>Farewell Party</i>		