

Scientific Program

Program at a Glance

	Sunday 15th	Monday 16th	Tuesday 17th	Wednesday 18th	Thursday 19th	Friday 20th
09:00 - 09:30		Registration and Coffee/Tea		Trip to Giethoorn	Session 5	
09:30 - 10:00		Coffee/Tea	Session 2			Session 8
10:00 - 10:30		Conference Opening				
10:30 - 11:00		Keynote Talks 1 & 2			Coffee/Tea	
11:00 - 11:30			Coffee/Tea		Keynote Talk 4	Coffee/Tea
11:30 - 12:00			Session 3		Lunch	Business Meeting
12:00 - 12:30		Lunch				
12:30 - 13:00					Session 6	Lunch
13:00 - 13:30		Poster Pitches	Lunch		Tour	
13:30 - 14:00						
14:00 - 14:30		Poster Display and Coffee/Tea	Keynote Talk 3			
14:30 - 15:00			Discussion Session		Coffee/Tea	
15:00 - 15:30					Session 7	Tour
15:30 - 16:00		Session 1	Coffee/Tea			
16:00 - 16:30	Welcoming Party		Session 4			
16:30 - 17:00						
17:00 - 17:30						
17:30 - 18:00						
18:00 - 18:30		Town Hall Reception	Barbecue		Conference Dinner	
18:30 - 19:00						
19:00 - 19:30		Dinner - Dutch Treat				
19:30 - 20:00						
20:00 - 20:30						
20:30 - 21:00						
21:00 - 21:30						
21:30 - 22:00						

Monday July 16th

09:00	Registration and Coffee/Tea		Rooms: Hal B and Foyer Waaier
10:00	Conference Opening		Room: Waaier 2
	Ed Brinksm a, Rector Magnificus of the University of Twente Erwin Hans and Ingrid Vliegen on behalf of the Organizing Committee of ORAHS 2012 Sally Brailsford , Chair of ORAHS		
10:30	Keynote Talks 1 & 2		Room: Waaier 2
	Pieter Vos The Dutch healthcare system in 2020: High Tech Human Touch? Hanneke Klopper Mind the gap		
12:00	Lunch		Room: Foyer Waaier
13:00	Poster Pitches		Room: Waaier 2
	Nor Aliza Abd Rahmin Simple heuristics for on-line scheduling of operating theatres Matthew Adaji Mathematical model for cost optimization option with priority queueing Friday Adejoh Application of queuing model to waiting time of out-patients in public hospitals in Benue state, Nigeria Nardo Borgman Organizing acute care: Logistics optimization of an integrated emergency post using discrete event simulation Martine Breteler Scenario analysis and real options modeling of home brain monitoring in epilepsy patients Pornpimol Chaiwuttisak Location-allocation problem for blood service facility in Thailand Sarah Dalton How to predict high dependency cot demand in upcoming days Angelico Fetta Modelling adolescent smoking behaviours with social network analysis Mushota Kabaso A simulation model of long-term survival estimates and economic costs of antiretroviral therapy (ART) in Zambia Sarah Kok Modeling the impact of serosorting on the spread of HIV in men who have sex with men Joep Kraeima Optimisation of breast cancer follow-up: Individualising trajectories based on risk stratification Arturo Pérez Rivera Radiotherapy capacity planning Pieter Smet A comparison of fairness objectives for nurse rostering Nizar Triki Planning home health care service Gerard van der Linde Simulating the effect of an integrated emergency post: A quantitative comparison of an integrated and a non integrated emergency post by using discrete event simulation Wim Vancroonenburg Patient-to-room assignment planning in a dynamic context Renske Visser A decision framework for selecting healthcare modeling approaches Peter Williams Unpunctuality in outpatient arrivals: Some fresh data Peter Williams Capacity modelling of a multi-Level system: Gatekeeper model revisited for chronic illness		
14:00	Poster Display and Coffee/Tea		Room: Foyer Waaier
15:30	Session 1		
	1A Epidemiology and Disease Modeling Room: Carré 1A	1B Organization of Healthcare Facilities Room: Carré 1B	1C Interaction between OR and Ward Room: Carré 1C
	Alexander Rutherford A system dynamics model of the continuum of care for HIV/AIDS	Timo Hartmann Save planning of hospital renovations	Lerzan Ormeci Optimal mix of surgical procedures under stochastic patient length of stay

Fredrik Dahl

Modelling population effects on HIV of prophylactic ART medication in Malawi

Ines Verena Arnolds

Multi-period ward layout planning for hospitals

Theresia van Essen

Improve OR-schedule to reduce number of required beds in the HagaZiekenhuis

Joe Viana

Simulation modeling of age related macular degeneration in the UK

Lene Berge Holm

Reorganising the central surgery unit: More focus on teamwork

Aleida Braaksma

Hourly bed census predictions for inpatient care services

Muhammad Islam

Nonparametric smoothing of the impact of climate change for some selected diseases: a case study for Greater London

Sally Brailsford

Simulation modelling for bipolar disorder

Nikky Kortbeek

Flexible nurse staffing based upon hourly bed census predictions

18:15 Town Hall Reception

Tuesday July 17th

09:30 Session 2			
2A Empirical Modeling in Healthcare	2B Patient Flow (1)	2C Operating Room Planning and Scheduling (1)	2D Practical Challenges in Healthcare
<i>Room: Carré 1A</i>	<i>Room: Carré 1B</i>	<i>Room: Carré 1D</i>	<i>Room: Carré 1C</i>
Steffen Bayer Length of stay for stroke patients: Statistical and simulation analysis	Nelly Litvak Patient flow analysis	Andreas Fügener Behavioral aspects of operating room planning	Daniëlle Ekkel Simulation based optimization of the operating theatre program
Evin Uzun Jacobson Causes of delays in hyper-acute stroke care	Izabela Komenda A model of CCU activities through queueing theory	Inês Marques Planning elective surgeries in a Portuguese hospital using a genetic heuristic	Brecht Cardoen Grouping of medical disposable items into custom packs: A mathematical programming approach
Jeroen Beliën Factors causing non-surgical time in a parallel surgery and anaesthesiology setting	Jonathan Helm Discharge planning to mitigate hospital congestion and bed block	Sebastian Rachuba A robust approach for scheduling in healthcare considering multiple objectives	Michel Kats Tactical planning in ZGT Almelo/Hengelo
Hassan Baalbaki Fitting multiple distributions in multiple risks situations: Impact on health economic evaluations	Kiok Liang Teow Systems dynamics modelling for specialist outpatient flow	Fabrcio Sperandio Optimization via simulation: An approach to the operating room scheduling problem	Maartje Zonderland Variations in the patient care process at the emergency department: Development and implications of an observational instrument
11:00 Coffee/Tea			<i>Room: Foyer Waaier</i>
11:30 Session 3			
3A Healthcare Policy Modeling (1)	3B Patient Flow (2)	3C Home Care	3D Interaction between OR and Ward: From Theory to Practice
<i>Room: Carré 1A</i>	<i>Room: Carré 1B</i>	<i>Room: Carré 1D</i>	<i>Room: Carré 1C</i>
Penelope Mullen Are numbers still killing people: And what is being done about it?	Paolo Tubertini Health planning via discrete event simulation: A breast screening case study	Thierry Garaix Consistent home health care service	Peter Vanberkel Implementing algorithms to reduce ward occupancy fluctuation through advanced planning

<p>Leonid Churilov Can minutes really save years? Simulation modelling for understanding the effect of fast and appropriate access to stroke thrombolysis on functional outcomes and long-term stroke burden</p>	<p>Sylvia Elkhuisen An operational model for comparison of health services for diabetes II between six countries</p>	<p>Ettore Lanzarone A robust programming model for the assignment problem in home care services</p>	<p>Edgar de Groot Linking the OR block plan with bed utilization: From model to implementation</p>
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<p>Abdur Rais New insights on integer-programming models for the kidney exchange problem</p>	<p>Yasar Ozcan Assessing the impact of organizational changes in clinical pathways</p>	<p>Bushra Bashir The nurse-patient assignment problem in home care</p>	<p>Renske Visser A model to reduce ward occupancy fluctuation through advanced planning: From theory to practice</p>
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<p>Msmgh Moses Kembe Combining high tech with human touch by doctors at Federal Medical Centre Makurdi</p>	<p>Bernadetta Addis Clinical pathways: Insights from a multidisciplinary literature survey</p>	<p>Hanane Allaoua Combining routing and rostering for the home health care problem</p>	<p>Bernd van den Akker Using operation research in real life hospital capacity management</p>
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13:00 Lunch *Room: Foyer Waaier*

14:00 Keynote Talk 3 *Room: Waaier 2*
Wim van Harten Translating operations research methods into hospital practice; evidence base and factors influencing optimal use

14:30 Discussion Session *Room: Waaier 2*
A panel consisting of both academics and practitioners Applying OR models in healthcare practice: Is there need for more advanced models?

15:30 Coffee/Tea *Room: Foyer Waaier*

16:00 Session 4

<p>4A Healthcare Policy Modeling (2) <i>Room: Carré 1A</i></p>	<p>4B Stochastic Modeling (1) <i>Room: Carré 1B</i></p>	<p>4C Operating Room Planning and Scheduling (2) <i>Room: Carré 1D</i></p>	<p>4D Implementing Scheduling Budgets: From Theory to Practice <i>Room: Carré 1C</i></p>
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<p>Marion Rauner Prevention programs for occupational injuries: Cost analysis and targeted resource allocation</p>	<p>Adele Marshall Discrete conditional phase-type models for representing patient activity in accident and emergency</p>	<p>Sara Ceschia Patient admission scheduling with operating room constraints</p>	<p>Egbert van der Veen Optimal staffing under annualized hours</p>
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<p>Tracey England Demonstrating the benefit of OR in maximising the use of existing health related data for the Welsh Government</p>	<p>Dawid Kozlowski Use of queue modelling in the analysis of elective patient treatment governed by a maximum waiting time policy</p>	<p>Guoxuan Ma Case mix and capacity planning: An application in a Belgian hospital</p>	<p>Martin Woudstra Controlling workforce scheduling budgets using decision support</p>
<p>Michael Carter Crossing the OR-policy gap: System dynamics of cross-sector patient flows</p>	<p>Greggory Schell Optimal treatment policies for risk-averse patients with limited resources</p>	<p>Manisha Rathi Predicting hospital resource utilization: A fuzzy regression approach</p>	<p>Paul Trossèl Implementing workforce scheduling budgets: A case study</p>
<p>Teresa Cipriano Rodrigues Cognitive maps in healthcare: An analysis of reported applications</p>	<p>Shirin Geranmayeh Bed allocation using a generic Markov model</p>	<p>Luiz Guilherme Nadal Nunes Analyzing the use of hospital resources: Applying mathematical programming</p>	

18:00 Barbecue (if registered)

Thursday July 19th

09:00 Session 5		
5A Location Problems <i>Room: Carré 1A</i>	5B Stochastic Modeling (2) <i>Room: Carré 1B</i>	5C Personnel Planning and Scheduling <i>Room: Carré 1C</i>
Honora Smith A fast spatial query algorithm for nationwide location of laboratories for HIV/AIDS blood testing in South Africa	Jivan Deglise-Favre-Hawkinson Stochastic modeling and optimization for integration of clinical research into clinical care	Elizabeth Rowse Workforce planning for a district nursing service
John Blake OR case study: Evaluating a blood distribution network in Atlantic Canada	Paulien Koeleman Using Markov decision theory to optimise waiting time targets	Roberto Aringhieri Models for multi-skilled rostering in health care
Ana Maria Mestre Hospital network planning under uncertainty	Martin Utley Evaluating a stochastic model of short-term bed demand	Mieke Defraeye A shift scheduling approach to control excessive waiting times under time-varying demand
Kenneth Korve Accreditation of health care facilities under the national health insurance scheme in Nigeria: The role of the geographical information system (GIS) tool	Xiaolan Xie Promise surgery start times and implementation strategies	Bernardo Almada-Lobo Medical doctor staffing and scheduling
10:30 Coffee/Tea		<i>Room: Foyer Waaier</i>
11:00 Keynote Talk 4 Vinod Subramaniam MIRA - Top technology for patients		<i>Room: Waaier 2</i>
12:00 Lunch		<i>Room: Foyer Waaier</i>
13:00 Session 6		
6A Forecasting <i>Room: Carré 1B</i>	6B Appointment Scheduling <i>Room: Carré 1C</i>	Lab Tour <i>Start from Registration Desk</i>
Paul Harper MetSim: A simulation support tool using meteorological information to improve the planning and management of hospital services	Marjan van der Velde Organizing multidisciplinary care for children with neuromuscular diseases	
Philip Worrall Development of a hybrid grey-fuzzy methodology to forecast future demand for long-term care	Joost Veldwijk Designing appointment schedules in health care: Dealing with walk-in patients	

<p>Valérie Dorval Forecasting post-surgical length of stay using phase-type distribution and regression tree theory</p>	<p>Evrin Didem Gunes Appointment scheduling in presence of seasonal demand</p>
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<p>Dhia Jomaa Improvement of the inventory management module implemented in a pharmaceutical warehouse management system</p>	<p>William Millhiser Assessing appointment systems' operational performance with policy targets</p>
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14:30 Coffee/Tea *Room: Foyer Waaier*

15:00 Session 7

<p>7A Emergency Care Services (1) <i>Room: Carré 1B</i></p>	<p>7B Operating Room Planning and Scheduling (3) <i>Room: Carré 1C</i></p>	<p>Lab Tour <i>Start from Registration Desk</i></p>
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<p>Martijn Mes A simulation study of an integrated emergency post</p>	<p>Stefan Creemers The optimal allocation of server time slots over different classes of patients</p>
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<p>Melanie Reuter Planning the patient transport as part of the German EMS system</p>	<p>Marco Pranzo An efficient decomposition approach for surgical planning</p>
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<p>Thierry Chausalet Using data mining and simulation for health system understanding and capacity planning: an application to urgent care</p>	<p>Malek Masmoudi Robust master surgical scheduling</p>
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<p>Serhat Tüzün A multi-criteria decision model for the evaluation of emergency department performance</p>	<p>Marzieh Soltanolkottabi Capacity planning in operating rooms by means of centralized data envelopment analysis: Case study of Alzahra hospital in Isfahan-Iran</p>
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18:00 Conference Dinner

Friday July 20th

09:30 Session 8		
8A Process Optimization <i>Room: Carré 1A</i>	8B Emergency Care Services (2) <i>Room: Carré 1B</i>	8C Planning Health Services <i>Room: Carré 1C</i>
Mehmet Begen Reducing wait times and improving treatment planning process for radiation therapy	Vincent Knight A game theoretical approach to the Emergency Medical Vehicle - Emergency Department interface	Teresa Cardoso Searching for equity improvements: A multi-objective mathematical programming model for planning the delivery of long-term care
Marek Lubicz Towards supporting clinical, hospital, and regional management-lessons from thoracic surgery	Geert Jan Kommer Optimal ambulance capacities under uncertain demand and response times	Mario Jorge Ferreira de Oliveira An operations and control center for rescue and treatment of emergency patients in large scale events
Claude Olivier Analysis of emergency departements in a regional hospital: A lean approach	Leanne Smith Allocating EMS vehicles to maximise survival of heterogeneous patients	Christos Vasilakis The Surgical Wound Infection Monitoring (SWIM) tool
Mohammad Yarmohammadian Improvement of hospital processes through Business Process Management (BPM) in Qaem teaching hospital: A work in progress	Rob van der Mei TIFAR: A simulation tool evaluating dispatching strategies for ambulance services	David Stanford Addressing waiting time inconsistencies in transplantation
11:00 Coffee/Tea		<i>Room: Foyer Waaier</i>
11:30 Business Meeting		<i>Room: Waaier 2</i>
12:30 Lunch		<i>Room: Foyer Waaier</i>