Healthcare Operations Research Summer School in Twente July 21 – 25, 2017 University of Twente, Enschede, the Netherlands

Deadline extended, apply before April 10th!

Below please find the summer school announcement with updated tentative program and participation fees.

We are excited to announce a special summer school on Healthcare Operations Research this summer at the University of Twente, the Netherlands! The event targets PhD students working on OR applications focused on improving healthcare. Participants will learn state-of-the-art OR techniques taught by renowned international professors, learn about how to successfully engage with the healthcare practice, and meet other PhD students from around the world. The program includes a wide variety of components including technical lectures, tutorials, inspiring seminars, interactive activities and a design competition of a serious game that demonstrates a healthcare OR/OM concept to healthcare professionals. The total workload of the summer school is 2 European Credits (2 ECs = 56 hours), consisting of preparation and contact hours.

Where and when?

The event will take place on University of Twente's campus in *Enschede, the Netherlands,* from *July 21*st to *July 25*th 2017, right after the IFORS conference in Quebec City, Canada (July 17 – 21) and before the <u>INFORMS Healthcare 2017</u> meeting in Rotterdam, the Netherlands (July 26 – 28) and the <u>ORAHS meeting in Bath, UK</u> (July 31 – August 4). The INFORMS Rotterdam conference can be easily reached by train from Enschede, immediately following the summer school.

Contributing professors

- <u>Dr. Sally Brailsford</u> (University of Southampton) Chair, <u>EURO-ORAHS working group</u>
- <u>Dr. Timothy Chan</u> (University of Toronto) Director, <u>Centre for Healthcare Engineering</u>
- <u>Dr. Brian Denton</u> (University of Michigan) President, <u>INFORMS</u>
- <u>Dr. Eva Lee</u> (Georgia Institute of Technology) Director, <u>Center for Operations Research</u> in Medicine and Healthcare
- Dr. Richard Boucherie (CHOIR, University of Twente) Organizer
- <u>Dr. Derya Demirtas (CHOIR, University of Twente)</u> *Organizer*
- Dr. Erwin Hans (CHOIR, University of Twente) Organizer

Tentative Program

Time	Activity	Speaker	
Friday, July 21st			
Before 18:00	Arrival of participants		
18:00 - 23:00	Dinner, getting to know each other and formi	ng groups	

	Saturday, July 22 nd		
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9:00 – 9:15	Opening Washa Washadi Walash bash at the history of OP	Du Calliu Duallafand	
9:15 – 10:30	You're Wanted! - We look back at the history of OR	Dr. Sally Brailsford	
	in Healthcare, and give an overview of what has and		
	has not been accomplished so far. Also, we outline		
	the great challenges that current and near future healthcare faces		
10:30 – 12:30		Dr. Domis Domistos	
10:30 – 12:30	Game on! - Participants team up and design a	Dr. Derya Demirtas	
	prototype serious game that demonstrates a	Dr. Erwin Hans	
	healthcare OR/OM concept to healthcare professionals/students.		
12:30 – 14:00	Lunch and brainstorming session on the assignment		
14:00 – 16:45	System Dynamics and Hybrid Simulation	Dr. Sally Brailsford	
16:45 – 18:15	Queueing theory in healthcare	Dr. Richard Boucherie	
18:15 – 20:15	Dinner	DI. KICHATU BOUCHETIE	
20:15 – 22:45	Group activity		
20.15 – 22.45	Sunday, July 23 rd		
9.00 – 11.30	Making	<u>Dr. Brian Denton</u>	
11:30 - 12:30	Free time to work on assignment		
12:30 - 14:00	Lunch		
14:00 - 16:30	Inverse Optimization	Dr. Timothy Chan	
16:30 - 19:00	BBQ		
19:00 – 21:30	Making an impact?! - We address how to engage	Dr. Timothy Chan	
	practice, how to organize your research to maximize	<u>Dr. Eva Lee</u>	
	impact. We also address the tension between	<u>Dr. Erwin Hans</u>	
	consultancy and research, "easy solutions" and		
	"fancy (but too complex for practice) OR".		
21:30 – 23:00	Group activity		
Monday, July 24 th			
9:00 – 11:30	Machine learning and mathematical programming	<u>Dr. Eva Lee</u>	
11:30 - 19:00	Day trip including lunch & dinner		
19:00 – 21:00	Game Demonstrations (Part 1)		
19:00 – 21:00 21:00 – 22:30	Return to Enschede		
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Who can apply?

- PhD students working on an OR/OM in Healthcare project.
- Attendees are expected to have a MSc-level knowledge in deterministic & stochastic OR.
- Post-docs have a lower priority than PhD students. They may apply, but are only accepted if there are places left.

When and how to apply?

<u>You must apply before April 10th (extended deadline)</u>. Admission will be on a competitive basis. Approximately 30 participants will be admitted: in addition to overall quality of CV, factors such as personal motivation, progress towards the PhD degree and institutional/geographical representation will be taken into account.

- Send your Curriculum Vitae including information about education, research projects, publications, awards and other pertinent experiences (pdf format) by email to: summerschool-choir@utwente.nl
- A max. 1 page motivation statement outlining your perspective and motivation to participate

Participation fee, accommodation, traveling, and catering

We are happy to report that the participation is only € 50 for PhD students, thanks to our generous sponsors! Catering and accommodation are included in the participation fee.

Traveling costs will be paid by the participant. Accommodation is on-campus in shared cabins.

The cabins are cozy and are nicely located between sports facilities, and a short walking distance to the summer school and various amenities. A very nice place to be in summer time – very fitting for a summer school. They are shared (gender separated) by at most 10 people. If you prefer to have a hotel room for yourself, you can stay at your own expense at the oncampus Hotel Drienerburght, where rooms are approx. €70 per night.

Our sponsors

Thanks to our wonderful sponsors, without whom our summer school would not be possible:

- STAR (Stochastics-Theoretical and Applied Research) Eurandom
- Centre for Telematics and Information Technology (CTIT) Univ. of Twente
- 4TU Applied Mathematics Institute (4TU.AMI)
- Graduate Program Operations Management & Logistics
- Dutch Society of Operations Research (NGB)

For updates see the website: https://www.utwente.nl/en/choir/SummerSchool/

Looking forward to seeing you in Twente!

Richard Boucherie

Derva Demirtas

Erwin Hans