



INTERNATIONAL WORKSHOP ON  
OPERATOR THEORY AND ITS APPLICATIONS

# Information Booklet

University of Twente

July 14–18, 2025

# Sponsors

**IWOTA** International Workshop on  
Operator Theory and its Applications



UNIVERSITY  
OF TWENTE.



**[ I L ]**  
**[ A S ]**  
International Linear  
Algebra Society

**4TU**.AMI

**disc** dutch institute  
of systems  
and control



# Practical information

## 1.1 Overview

IWOTA 2025 is hosted on campus of the University of Twente located between the cities of Hengelo (northeast) and Enschede (southwest) in the Netherlands.

The picture below gives an overview of the location. It shows:

- the Waaier-Carre building complex (red circle), where the main program takes place;
- the closest **bus stops**  
*UT/ Hallenweg* (Line 1, Enschede Central), and  
*Westerbegraafplaats/UT* (Line 9, Enschede/Hengelo)
- the conference dinner venue (the stadium), (purple circle), also reachable by Line 1 (stop *FC Twente Stadium*);
- the hotels (UPark and Fletcher's) near campus (yellow circle);



Figure 1.1: Overview Conference Venue on campus of University of Twente

## 1.2 Program

### Scientific Program

The scientific Program will take place in the building complex **Waaier–Carré** on campus of the University of Twente. All used lecture halls as well as coffee breaks and lunches are within close vicinity (max. of 3mins walking distance, 3 floors).

- The **registration** on Monday (starting at 10:00) will take place on the first floor (British) of the **Waaier** building.
- All *coffee* and *lunch breaks* will also take place on the first floor of the **Waaier** building (right outside Lecture hall Waaier 1).
- *Plenary* and *semi-plenary talks* will take place in Lecture halls 1, 2 and 3 of the **Waaier** building.
- The parallel sessions will mainly take place in the **Carré** building (denoted CR) and **Hall B** (denoted HB), which is a side wing of the **Carré** building. The sessions in honour of H. Langer, H. Dym, R. Kaaskhoek and N. Vasilevski will take place in **Waaier 3**.

To navigate on campus and inside buildings, we recommend using the map

<https://use.mazemap.com/#v=1&campusid=171>

For titles and abstracts of all talks, see the book of abstracts or

<https://skrepek.at/iwota2025>.

The latter also provides links to the digital map of the specific rooms.

### Plenary Speakers (ordered by time slot)

- Roland Speicher (Saarland University)
- Hélène Frankowska (CNRS and Sorbonne Université, Paris) *Invariance of Sets under Transport Control Systems in Wasserstein Spaces*
- José Manuel Conde Alonso (Universidad Autónoma de Madrid)
- Walter van Suijlekom (Radboud University Nijmegen)
- Quanhua Xu (Université Marie & Louis Pasteur (Besançon) and Harbin Institute of Technology)
- Luz Roncal (Basque Center for Applied Mathematics, Ikerbasque, and University of the Basque Country)
- Philipp Grohs (University of Vienna and Austrian Academy of Sciences)
- Volker Mehrmann (TU Berlin), ILAS Lecture

## Semi-Plenary Speakers

- Catalin Badea (Université de Lille and University of Reading)
- Marcin Bownik (University of Oregon)
- Hanza Fawzi (University of Cambridge)
- Jochen Glück (University of Wuppertal)
- Constanze Liaw (University of Delaware)
- Rob Martin (University of Manitoba)
- Jaydeb Sarkar (Indian Statistical Institute)
- Felix Voigtländer (Katholische Universität Eichstätt–Ingolstadt)
- Yi Wang (Chongqing University)
- Marcus Waurick (TU Bergakademie Freiberg)
- Ian Wood (University of Kent)

## Social Program

The social program on Wednesday afternoon consists of the following options:

1. A trip to the city of Ootmarsum;  
departure by bus at 14.00 from O&O square (outside Waaier building).
2. A trip to Haaksbergen (historic train ride),  
departure by bus at 14.00 from O&O square (outside Waaier building).
3. A city tour in Enschede, starting at 16.00, meet at *Oude Markt* (city center).

The conference dinner (Thursday 18:30) will be held at the lounge of **De Grolsch Veste**, the football stadium of FC Twente. We will collectively walk there from campus. Parking lots are available there as well as a bus stop (Line 1, see below) and the train station "Enschede Kennispark". Travel to Enschede and Hengelo central stations will be provided by public transport (more information will be available at the dinner).

### 1.2.1 Coffee breaks and Lunches

All coffee breaks will be held in the Waaier building right outside Waaier 1. Lunches, which are included in the conference fee, will be served there too.

# Schedule overview

	Monday		Tuesday		Wednesday
12:00-13:15	Lunch	09:00-09:55	Waaier 1 Xu	09:00-09:55	Waaier 1 Roncal
13:15-13:30	Opening	10:00-10:30	Coffee break	10:00-10:30	Coffee break
13:30-14:25	Waaier 1 Speicher	10:30-11:15	Waaier 1 LiawWaaier 2 GlückWaaier 3 Fawzi	10:30-12:30	Parallel sessions
14:30-15:25	Waaier 1 Frankowska	11:20-12:05	Waaier 1 BadeaWaaier 2 WaurickWaaier 3 Martin	12:30-14:30	Lunch
15:30-16:00	Coffee break	12:05-13:15	Lunch	14:00-18:00	Social program
16:00-16:55	Waaier 1 Conde Alonso	13:15-15:15	Parallel sessions		
17:00-17:55	Waaier 1 van Suijlekom	15:15-16:00	Coffee break		
18:00-19:30	Welcome reception	16:00-18:00	Parallel sessions		

	Thursday		Friday
09:00-09:55	Waaier 1 Grohs	09:00-09:55	Waaier 1 Mehrmann
10:00-10:30	Coffee break	10:00-10:15	Announcements
10:30-11:15	Waaier 1 SarkarWaaier 2 BownikWaaier 3 Wood	10:15-10:45	Coffee break
11:20-12:05	Waaier 1 WangWaaier 2 Voigtlaen.	10:45-12:45	Parallel sessions
12:05-13:15	Lunch	12:45-14:00	Lunch
13:15-15:15	Parallel sessions	14:00-15:30	Parallel sessions
15:15-16:00	Coffee	15:30-16:00	Coffee break
16:00-18:00	Parallel sessions		

# Overview contributed sessions

	Tuesday 13:15–15:15					Tuesday 16:00–18:00				
S01	CR 3E1. Boscain2. Neel3. Nicolussi4. Grieser									
S02	CR 2N1. Martini2. Ganguly3. Plewa4. Federico					CR 2N1. Russ2. Tralli3. Bownik4. Führ				
S03	HB 2B1. Klioba2. Aigner3. Uteshova4. Wierzba					HB 2B1. Glück2. Vanspranghe3. Testa4. Zeelie				
S04	CR 2L1. Evert2. Kimsey3. Netzer4. Thiersen					CR 2L1. van Rensburg2. Roca3. Liu4. Khare				
S05										
S06						CR 2M1. Benhida2. Exner3. Stochel4. Nailwal				
S07	CR 2K1. Dritschel2. Ding3. Bala4. Biswas					CR 2K1. Ball2. Debnath3. Bailey4. Sarkar				
S08										
S09	CR 2H1. Brix2. Li3. Bruce4. Forough					CR 2H1. Sibbel2. Kopsacheilis3. Kumar				
S10	CR 2G1. Woerdeman2. Blaschke3. Lemos4. Szymański					CR 2G1. Mashreghi2. de Vries3. Blazhko4. Dronka				
S11										
S12										
S13	CR 3C1. Chalmoukis2. Gómez-Cabello3. Abadias4. Asensio					CR 3C1. Jordá2. Sevilla3. López-Martínez4. Jornet				
S14	CR 3A1. Alpay2. Bernstein3. Hogan4. Schneider					CR 3A1. Diki2. Ferreira3. Legatiuk4. Sabadini				
S15	CR 3B1. Norrbo2. LO3. Choe4. Gilmore					CR 3B1. Wu2. López3. Wang4. Lv				
S16										
S17	HB 2A1. Glück2. Mui3. Ploß4. Wirth					HB 2A1. Drnovšek2. Stennder3. Amin4. Kulkarni				
S18										
S19										
S20										
S21	Waaier 31. de Snoo2. Alpay3. Mehrmann4. Tretter					Waaier 31. Ran2. Lindner3. Gernandt4. Trunk				
S22	HB 2D1. Tapdi. et al.2. Kosiek-Rudol3. Koczorowski4. Pal					HB 2D1. Das2. Uysal3. Chongdar4. Zhang				
S23										

Wednesday 10:30–12:30

S01

S02

S03

**HB 2B** 1. Waurick 2. Morandin 3. Wojtylak 4. Preuster

S04

S05

S06

**CR 2L** 1. Trachana 2. White 3. Zerouali

S07

**CR 2K** 1. Pal 2. Lykova 3. Baran 4. Young

S08

**CR 2M** 1. Volčič 2. Vinnikov 3. Augat 4. Lu

S09

S10

**CR 2G** 1. Jana 2. Malman 3. Soares 4. Pikul 5. Nakazato

S11

**CR 2N** 1. Fraccaroli 2. Bartolucci 3. Pérez 4. Chalmoukis

S12

S13

S14

**CR 3A** 1. Kimsey 2. De Martino 3. Pinton 4. Faustino

S15

**CR 3B** 1. Câmara 2. Ptak 3. Ostermann 4. Asghari

S16

S17

**HB 2A** 1. Tiersma 2. Peperko 3. Barbieri 4. Gaans

S18

S19

**Wanier 3** 1. Dym 2. Dewilde 3. Helton 4. Derkach 5. Vinnikov 6. Kimsey 7. Sarkar 8. Gauntlett

S20

**CR 2H** 1. Jury 2. Lamberti 3. Gumenyuk 4. Marano

S21

S22

**HB 2D** 1. Nandan 2. Hinojosa 3. Augustine 4. Balazs

S23



## Thursday 13:15–15:15

## Thursday 16:00–18:00

S01	CR 3E	1. Falconi	2. Mikkelsen	3. Melgaard	4. Ishida	CR 3E	1. de Nittis	2. Tsaava	3. Kutsenko	4. Schlosser
S02										
S03										
S04										
S05	Waaier 3	1. Bart	2. Van Dooren	3. Dopico	4. Wojtylak	Waaier 3	1. Ran	2. Horst	3. Farenick	4. Woerdeman
S06	CR 2L	1. Yoo	2. Pietrzycki	3. Jabłoński	4. Moore					
S07										
S08	CR 2M	1. Speicher	2. Tornes	3. Yin	4. Sampat	CR 2M	1. Helton	2. Štrekelj	3. Evert	4. Salomon
S09	CR 2H	1. Nuland	2. Arici	3. Mesland	4. Suijlekom	CR 2H	1. Gerontogiannis	2. Kyed	3. van den Dungen	4. Chen
S10										
S11	CR 2N	1. Reguera	2. Roncal	3. Casarino	4. Ciatti	CR 2N	1. Conde Alonso	2. Haar	3. Senger	4. Kaur
S12	CR 2K	1. van Leeuwen	2. Naldi	3. Heinlein	4. Gumber	CR 2K	1. Barboni	2. Heeringa	3. Korolev	4. Ruiz-Balet
S13	CR 3C	1. Kriegler	2. Roodenburg	3. Sarnowski	4. Klioba	CR 3C	1. Trostorff	2. Buchinger	3. Fkirine	4. Budde
S14	CR 3A	1. Schlosser	2. Fernandez	3. El Haoui	4. Alpay	CR 3A	1. Vajiac	2. Vajiac	3. Luna-Eli.	
S15	CR 3B		2. Dellepiane	3. Tutberidze	4. Tephnadze	CR 3B	1. Jain	2. Palacios	3. Stochmal	4. Bugajewska
S16	CR 3B	1. Sarkar								
S17										
S18	CR 2G	1. Huber	2. Klep	3. Schötz	4. Heinävaara	CR 2G	1. Xu	2. Baroni	3. Schmidt	4. Britz
S19										
S20	HB 2A	1. Instanes	2. Deterding	3. Kourou	4. Dayan	HB 2A	1. Manolaki	2. Alpay	3. Malman	4. Martin
S21										
S22	HB 2D	1. Bugajewski	2. Badanin	3. Yu	4. Muratbekov	HB 2D	1. Dabra	2. Kiwerski	3. Tomaszewski	4. Wilson
S23	HB 2B	1. M. Melgaard	2. Ben-Artzi	3. Fishelov	4. Haimovici	HB 2B	1. Eidelman	2. Boito		

	Friday 10:45–12:45				Friday 14:00–15:30		
S01	CR 3E	1. Post	2. Merz	3. Fürst	4. Karabash		
S02	CR 2N	1. Oussa	2. Enstad	3. Beltiță			
S03							
S04	CR 2L	1. Maestripieri	2. Shekhawat	3. Soto-González			
S05							
S06	CR 3A	1. Kuhlmann	2. Buchala	3. Atanasiu			
S07	CR 2K	1. Curto	2. Wang	3. Kumar	4. Kimsey	CR 2K	1. Vinnikov 2. Mal 3. Ahmed
S08	CR 2M	1. Ayun	2. Pascoe	3. Kiri			
S09	CR 2H	1. Leimbach	2. Wagner	3. Duhan	4. Reimann		
S10							
S11							
S12							
S13	CR 3C	1. Oliva-Maza	2. Arora	3. Preußler	4. Seifert		
S14							
S15							
S16	Waaier 3	1. Virtanen	2. Enciso-Molina	3. Duduchava	4. Quiroga-Bar.		
S17							
S18	CR 2G	1. Helton	2. Farkas	3. Wright	4. Rahaman		
S19							
S20							
S21							
S22	HB 2D	1. Zemánek	2. Ospanov	3. Niikuni	4. Świdorski	CR 2M	1. Bugajewski 2. Périce 3. Sahasrabuddhe
S23							

## 1.3 Local travel to campus

Participants not staying in hotels on/near campus will rely on public transport to come to university. The bus lines serving the campus area are lines **1** and **9**. Taxis are also available at Hengelo and Enschede central stations, but rather expensive.

### Bus Line 1

- Line 1 runs (Wesselerbrink-Zuid –) Enschede station – FC Twente stadium (conference dinner) – UT campus
- This line takes a route onto the campus itself and stops very close to the conference area (stop: **UT/Hallenweg**) before continuing to the Boulevard area of campus (closer to UPark hotel)
- Slower than line 9 for station to campus trips, but involves less walking
- – Frequency: 15 minute intervals until around 18:00, then 30 min
- – Departures Enschede station for arrival UT at 9:00:  
Early option: **8:23**, arrive UT 8:38; later option: **8:38**, arrive UT 8:53

### Bus Line 9

- Line 9 runs Enschede station – UT – Hengelo station
- This line takes a fast route via the main road. Note that the main stop for campus (**Westerbegraafplaats/UT**) is a 10-minute walk, 500 m from the main conference area.
- – Frequency: 10–20 minute intervals
- – Departures Enschede station for arrival UT at 9:00:  
Early option: **8:21**, arrive UT 8:27 + walk; later option: **8:31**, arrive UT 8:37 + walk
- – Departures Hengelo station for arrival UT at 9:00:  
Early option: **8:21**, arrive UT 8:31; later option: **8:41**, arrive UT 8:51

### Tickets for buses ([www.9292.nl](http://www.9292.nl), [www.ns.nl](http://www.ns.nl))

The standard way of travelling by bus is by “checking in and out”(with reader machines located on the bus itself) using your credit or debitcard - you won’t get paper ticket.

**Contactless payment for bus transit is highly suggested.** In the following all options for paying bus rides are listed.

1. Use your own *contactless* credit/debit card to check in—and to **check out**—with readers located on the bus itself. Mobile payment methods such as Apple/Google Pay etc. are also accepted.

2. *Only option for cash payments:* Buy a OV-chipkaart (rechargeable Dutch public transit card) for €7.50 and load money onto the card using a NS (Dutch railways) machine. E. g. at Enschede station, Hengelo station or even at Schiphol. One-way trips from campus to the station or vice versa are around €2.50.
3. Get a paper ticket from the bus driver. *Cash payments are not accepted.* Ticket prices are higher than check-in–check-out.

There are *no* ticket machines at bus stops. The NS machines for loading credit onto OV-chipkaarts are located at *train stations*. Failing to check out properly will lead to a fine and can also lead to your bank card being temporarily banned from use on the public transport system in the Netherlands.

## Parking on campus

For participants coming by car, there are several parking lots available (free of charge) on campus. We recommend parking lot P2 which is closest to the venue (3mins walking).

## 1.4 Getting around on campus

On campus navigation is rather easy by following the signs for buidlings (look for “Waaier” and “O&O square” or “O&O plein”). There will also be special signs for the IWOTA. See also the maps

<https://www.utwente.nl/download/campusmap.pdf>

or <https://use.mazemap.com/#v=1&campusid=171>

## 1.5 The Organizers

The organizers of IWOTA 2025 are Felix Schwenninger (University of Twente), Emiel Lorist (TU Delft) and Hans Zwart (University of Twente).

The organizing team consists of Linda Wychgel-van Dalm (Twente), Nathanael Skrepek (Twente), Philip Preußler (Twente), Jens de Vries (Twente), Alexander Wierzba (Twente/Wuppertal).

The organizers are thankful to the IWOTA steering committee and in particular William Helton, for continuous support.