

Final Program



22 – 24 October 2025
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ESM®'2025 – GAME-ON®'2025 ARE HYBRID EVENTS

ONLINE PRESENTATIONS ARE DENOTED BY _ONL AFTER THE PAPER CODE

The ESM®'2025- GAME-ON®'2025 final programme also gives you info on how to virtually attend the event. A personalised email with login info will be forwarded to all registered participants

Contents

General Information	4
Badges.....	5
Best Paper Award	8
Conference Location	4
Conference Proceedings.....	6
How to get there.....	4/5
Internet Connection.....	6
Meeting Room.....	6
Need Help?	7
Paper Legend	8
Registration.....	6
Social Events and Lunches	7
Tickets	5
 Quick Program Overview.....	 9
Welcome Address	13
 Scientific Program	 13
 Wednesday, October 22.....	 13
Thursday, October 23	17
Friday, October 24.....	22
 ESM®'2026	 24
Conference Location	25
Notes.....	12/28
Registration Form	29
EUROSIS Contact Info.....	30

General Information

1.1 Conference Location

The ESM®'2025 and GAME-ON®'2025 conferences are held at



University of Leuven/Campus Ghent

BUILDING L - ROOMS L226/M210

Gebroeders de Smetstraat 1
9000 Ghent

 Tel: +32.9 265 86 10

 Email: iiw.gent@kuleuven.be

See the Campus map for more info at the back of the programme.

The meeting room is in building L located to the LEFT of the main entrance of the campus. (The way to the meeting room will be signposted) Registration will start on Wednesday at 8.00 a.m. and end at 3.30 p.m. On Thursday from 8.30 a.m. till 5.00 p.m. On Friday at 9.00 a.m. The registration desk will be located in front of room **L226** on the same level as the meeting rooms in **Building L**.

Reaching the University Leuven – Campus Ghent

By Plane:

Ghent lies some 40 km to the west of the airport of Brussels and some 70 kms from Charleroi-(Brussels South Airport) if you fly Ryanair. See below how to get reach Ghent from these different airports.

On arrival at Brussels Airport, probably with Brussels Airlines take a train towards Brussels, where you can change trains for Ghent at either Brussels North, Central or South (Midi). At each of these stations you can take the IC-Train either to Ostend, Knokke-Blankenberge or De Panne and exit in Ghent Sint-Pieters station. First stop after Brussels. (Travel time approx. 35 mins)

From Charleroi airport you can take a bus to Charleroi Station. From there you take the train to Brussels South and change trains there for Ghent. At this station you can take the IC-Train either to Ostend, Knokke-Blankenberge or De Panne and exit in Ghent Sint-Pieters station. First stop after Brussels. (travel time approx. 35 mins)

By Train:

From Germany see the German Railway Information Site and also check the information on the ICE train from Cologne to Brussels.

From London see the EUROSTAR Information Site for information on trains between London and Brussels.

From Paris see the THALYS Information Site for information on trains between Paris and Brussels.

General Information

From Amsterdam see the [THALYS Information Site](#) for information on trains between Amsterdam (Schiphol Airport) and Brussels. If you take this train then you can also change trains in Antwerp and take the Ostend or Lille bound trains to reach Ghent Sint-Pieters station.

More information about timetables of [trains in Belgium](#).

By Tram:

Ghent has an excellent network of trams and busses run by the [De Lijn](#) company which cover everywhere you could wish to go. You can buy tickets from De Lijn offices, some newsagents, ticket machines at the bus/tram stops, by SMS or from the drivers. Tickets bought before boarding are substantially cheaper than those bought from the drivers and the present-time cost of a single ticket, bought in advance, is 2.50 Euro. Single tickets must be validated in the machine on board and are then good for 60 minutes. There are also day tickets (dagpas) valid for 24, 72 or 120 hours costing respectively 7,5 and 15 Euros. These also must be validated at the start of the first journey. The machines are quite simple to use and those at the train station have several language options. Payment can be credit/debit card or cash and the machines give change for notes up to 10 Euro. Or you can send an SMS (textmessage) to 4884 to pay for your ticket or download DeLijn app on your phone to make payments.

To view the tram network go to this [webpage](#). The tram to take is line 4 direction Rabot/Moscou from Ghent Sint-Pieters Station.

By Bus:

You can reach Ghent from anywhere in Europe by [EUROLINES](#). The EUROLINES coach stops at Ghent St.Pieters Station and at Ghent Dampoort. Within to use a bus Ghent see the information on [De Lijn](#) website.

ALL OTHER MAPS ARE AT THE BACK OF THIS PROGRAMME

1.2 Badges

Each registrant will receive a name badge upon registration. The badge must be worn in order to be admitted to the technical sessions, lunches and social event.

1.3 Tickets

Extra tickets for the social event and lunches are available from the Registration desk. (**at conference prices**)

Price: (or equivalent in another currency) for extra tickets. All participants will be issued with tickets for lunch and the conference dinner. **Or just the badge will apply.**

General Information

conference dinner: lunch	€ 90 € 25/lunch
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1.4 Registration

The **ESM'2025** Registration Desk will be open for information and registration **in front of meeting room L226** on the second floor of **BUILDING L** in the same hallway as the meeting rooms:

Wednesday, October 228.00 a.m. to 3.30 p.m.

Thursday, October 238.30 a.m. to 05.00 p.m.

Friday, October 24 9.00 a.m.

1.5 Conference Proceedings

Each fully paid registrant will be provided with a copy of the Conference Proceedings (printed format and/or electronic format) at and prior to the conference. Price: (or equivalent in another currency) for an extra printed copy

ESM'2025 Proceedings	€ 60
GAME-ON'2025 Proceedings	€ 35

Other Proceedings can be ordered from the EUROSIS website.

1.6 Meeting Rooms

The **ESM'2025/GAME-ON2025** meeting rooms are **room L226 and room M210**, located to the left of the main entrance of the University entrance in **BUILDING L and M on the second floor**. To enter the buildings use the ground floor entrance for Building L. Directions to the rooms will be signposted.

ESM®'2025/GAME-ON®'2025 VIRTUAL PARTICIPATION AND PRESENTATION

As some ESM®'2025 participants have opted for an online presentation, we are opening up a virtual environment for the ESM®'2025 and GAME-ON®'2025 presentations using TEAMS:

<https://www.microsoft.com/en-us/microsoft-teams/group-chatsoftware>.

Links will be provided to all online participants. A first trial is envisaged on **Tuesday the 21st of October from 14h00 to 15h00**.

1.7 Online Login and WIFI

Online participants will receive TEAMS LOGIN info. Each online registrant will receive a **name login** upon registration. **The login is personal and non-transferrable and can only be your name.** Company or generic university logins are **NOT** allowed. Non-regular logins will be removed from the online meetings.

General Information

There is full free WIFI at the conference site. Participants are advised to log in using their EDUROAM account.

1.8 Need Help?

Please see the conference desk in front of **ROOM L226** for your questions

1.9 Social Events and Lunches

All registrants are invited: To the **Coffee Breaks** and the **Lunches** during the conference days and the **Conference Dinner on Thursday the 23rd of October** at 19.30 hours at **De Acht Zaligheden, Oudburg 4, Ghent**.

A post conference visit is envisaged for the participants who have indicated on their social info forms they would take part. More info at the conference.



University of Leuven/Campus
Ghent

Gebroeders de Smetstraat 1
9000 Ghent

Tel: +32.9 265 86 10

To the **Conference Dinner**



From 19.30 p.m to 23.00 p.m.

The conference dinner will be held
on **Thursday the 23rd of
October** in the evening at
De Acht Zaligheden

Oudburg 29

9000 Gent

Tel: + 32. 9 224 31 97

Website:

<https://www.deachtzaligheden.be/en>



General Information

1.10 Best Paper Award

During the conference the papers, which were accepted as extended papers will be judged by the committee and participants in order to choose the best paper of the ESM'2025 conference. The best paper candidate receives a certificate signed by the General Conference and Program Chairs and also a **free registration to any EUROSIS conference within 2 years of receipt ONLY** of the prize.

1.11 Paper Legend:

Each paper is designated before each paper by its number. This number has to be entered on the form for the best paper award.

The room has an LCD projector and an overhead projector

SESSION CHAIRPERSONS

ALL NAMES OF SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL. Session Chairs are chosen on a voluntary basis by proposals by either authors or local committee members or are appointed by the Track Chairs, General Program Chair or General Conference Chair. They are responsible for their assigned session. They make sure their speakers are available, take care of the timing within the session, chair the discussion after each presentation and introduce each speaker based on the CV's given to them by the authors. **If a session chair is not available then the first author takes on the responsibility to chair**

Sessions with extended papers: If you are a session chair in a session with extended papers make sure the session participants have a copy of the best paper award form and ask them to return them to you at the end of the session. After the session hand over the collected forms to Philippe Geril.

THE NUMBERS NEXT TO THE PRESENTATIONS DENOTE THE PAGE-NUMBERS IN THE PROCEEDINGS. IF NO NUMBERS ARE MENTIONED THEN THIS PAPER IS NOT PUBLISHED IN THE PROCEEDINGS

THE AUTHORS WHO ARE UNDERLINED ARE NORMALLY THE PRESENTERS

ONLY PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS ELIGIBLE FOR THE BEST PAPER AWARD

PAPER NUMBERS IN THE FINAL PROGRAMME FOLLOWED BY “ONL” MEAN THESE PAPERS WILL BE PRESENTED ONLINE

FINAL PROGRAMME ESM®'2025 AND GAME-ON®'2025 QUICK OVERVIEW

WEDNESDAY, 22nd OCTOBER 2025		
08.00-15.30	REGISTRATION IN FRONT OF ROOM L226, BUILDING L, 2 ND FLOOR	
08.45-09.00	WELCOME MEETING ROOM BUILDING L ROOM L-226	
	ESM'2025 – GAME-ON'2025 WELCOME	
09.00-10.00	ESM'2025 KEYNOTE SESSION - BUILDING L ROOM L-226	
	KEYNOTE SPEAKER LASZLO BARNA IANTOVICS GEORGE EMIL PALADA UNIVERSITY, ROMANIA	
10.00-10.30	COFFEE BREAK MEETING AREA IN FRONT OF ROOM L-226	
10.30-12.30	ESM'2025 SESSIONS	
	ROOM L 226	ROOM M 210
	DATA EXTRACTION AND SIMULATION	NATURAL LANGUAGE PROCESSING
12.30-13.30	LUNCH BREAK MEETING AREA IN FRONT OF ROOM L-226	
13.30-15.30	ESM'2025 SESSIONS	
	ROOM L 226	ROOM M 210
	TUTORIAL ERIC MSP VEITH CARL VON OSSIETZKY UNIVERSITY OLDENBURG GERMANY	DATA OPTIMIZATION
15.30-16.00	COFFEE BREAK MEETING AREA IN FRONT OF ROOM L-226	
16.00-17.00	CONFERENCE VISIT	
	KU LEUVEN BREWERY VISIT	

THURSDAY, 23rd OCTOBER 2025		
08.30-17.00	REGISTRATION IN FRONT OF ROOM L-226, BUILDING L, 2ND FLOOR	
09.00-10.00	ESM'2025 – GAME-ON '2025 KEYNOTE SESSIONS	
	ROOM L 226	ROOM M 210
	KEYNOTE SPEAKER JOEL COLLOC UNIVERSITE OF LE HAVRE LE HAVRE, FRANCE	KEYNOTE SPEAKER MICAEL SOUSA CAPTRS PORTUGAL
10.00-10.30	COFFEE BREAK MEETING AREA IN FRONT OF ROOM L-226	
10.30-12.30	ESM'2025 – GAME-ON '2025 SESSIONS	
	ROOM L-226	ROOM M 210
	TRAFFIC SIMULATION	INTERACTIVE GAME RESEARCH AND SERIOUS GAMES
12.30-13.30	LUNCH BREAK MEETING AREA IN FRONT OF ROOM L-226	
13.30-15.00	ESM'2025 – GAME-ON '2025 SESSIONS	
	ROOM L-226	ROOM M 210
	MACHINE LEARNING	GAME DESIGN
15.00-15.30	COFFEE BREAK MEETING AREA IN FRONT OF ROOM L-226	
15.30-17.30	ESM'2025 SESSIONS	
	ROOM L-226	ROOM M 210
	MACHINE LEARNING FOR HUMAN INTERFACES	EMERGENCY MANAGEMENT SIMULATION
19.30-23.00	Conference dinner at De Acht Zaligheden, Oudburg 4, 9000 Gent	

FRIDAY, 24th OCTOBER 2025		
09.00	REGISTRATION IN FRONT OF ROOM L-226, BUILDING L, 2ND FLOOR	
09.00-10.00	INVITED SESSION BUILDING L - ROOM L-226	
	INVITED SPEAKER BASTIEN SULTAN TELECOM PARIS, FRANCE	
10.00-10.30	COFFEE BREAK MEETING AREA IN FRONT OF ROOM L-226	
10.30-12.00	ESM'2025 SESSIONS	
	ROOM L-226	ROOM M 210
	CRITICAL STRUCTURES SIMULATION	SIMULATION IN BIOLOGY
12.00-12.15	CLOSING SESSION ESM'2025 – GAME-ON'2025 AND BEST PAPER AWARD ROOM L-226	
12.15-13.00	LUNCH BREAK MEETING AREA IN FRONT OF ROOM L-226 FOR POST CONFERENCE VISIT PARTICIPANTS ONLY	

Conference Notes

NOTES

Wednesday, 22nd October 2025

REGISTRATION

08.00 - 15.30

IN FRONT OF ROOM L226, BUILDING L, 2ND FLOOR

08.45 – 09.00

**MAIN ROOM L 226 BUILDING L – 08.45-09.00
WELCOME ADDRESS**

WELCOME

Introduction to ESM[®]'2025 – GAME-ON[®]'2025

Jan F.M. Van Impe, Katholieke Universiteit Leuven, Campus Ghent, Belgium ,
General Conference Chair

09.00 – 10.00

**ROOM A – L 226 – 09.00-10.00
KEYNOTE**

ESM 2025 KEYNOTE

Chairs: Jan van Impe, BIOTEC, University of Leuven, Ghent, Belgium



ESM_KEY_01

Modelling Machine Intelligence Measuring

László Barna Iantovics.....5

10.00 - 10.30

COFFEE BREAK - MEETING AREA IN FRONT OF ROOM L-226

Welcome - Wednesday

Wednesday, 22nd October 2025

10.30 - 12.30

ROOM A – L-226 - 10.30-12.00

ESM 2025 SESSION

DATA EXTRACTION AND SIMULATION

Chair: Eric Veith, Carl von Ossietzky University Oldenburg, Germany

SIM_MC_01

Both Shares in Color Visual Cryptography can be statistically Indistinguishable from Noise

Leszek J. Chmielewski, Arkadiusz Orłowski and Mariusz Nieniewski 77

SIM_AI_13

Comparison of Neural Network training Approaches in Limited Data Scenarios

Piotr Jóźwik-Wabik and Adam Popowicz..... 82

SIM_AI_05_ONL

Evaluating Semantic Preservation in Multilingual Round-Trip Translation

Kalin Kopanov and Tatiana Atanasova..... 87

ROOM B – M-210 - 10.30-12.00

ESM 2025 SESSION

NATURAL LANGUAGE PROCESSING

Chair: Joël Colloc, Université of Le Havre, France

SIM_AI_10

From Sentiment to Safety: Conditional Hate Speech Detection based on Emotion Analysis in Social Robotics

Kamil Skowroński, Adam Galuszka and Eryka Probiez..... 57

SIM_AI_14

Dimensionality Reduction for Vectors in Word Inspired Modeling of Nucleotide Sequences

Tomasz Strzoda, Lourdes Cruz-Garcia, Christophe Badie and Joanna Polańska 63

SIM_AI_16

Efficient and Robust Scene Text Classification: Distinguishing Natural and Artificial Text Using Compact Deep Learning Models

Seweryn Kalisz, Michał Marczyk and Rafał Fagas 69

Wednesday, 22nd October 2025

12.30 – 13.30

LUNCH BREAK - MEETING AREA IN FRONT OF ROOM L-226

13.30 - 15.30

ROOM A – L 226 - 13.30-15.30
TUTORIAL

ESM2025 TUTORIAL

Chair: Philippe Geril, ETI, Ostend, Belgium



ESM_TUT_01

[Play with me: Practical Autocurriculum Deep Reinforcement Learning for Resilient Operation of Cyber-Physical Energy Systems](#)

Dr.-Ing. [Eric MSP Veith](#), Carl von Ossietzky University Oldenburg, Oldenburg, Germany

ROOM B – M-210 - 13.30-14.30
DATA OPTIMIZATION

ESM2025 SESSION

Chair: Naser Nawayseh, University of Sharjah, UAE

ANMT_01

Generalized Thomas Algorithm for Banded Matrices arising from Pair-Wise Droplet Interactions

[Ahmad Ababaei](#), Bogdan Rosa and Alina Jóźwikowska..... 35

SIM_OP_01_ONL

Statistical Optimization with various Combinations of Weights

[William Conley](#)..... 27

15.30 - 16.00

COFFEE BREAK - MEETING AREA IN FRONT OF ROOM L-226

Wednesday, 22nd October 2025

16.00 - 17.00

Visit to the University of Leuven Campus Brewery



Picture shows a part of the University of Leuven brewery under construction

Because of the number of participants the group will be split in 2.

Group 1: Leaves at 15.30 and has a coffee break after the visit.

Group 2: Leaves at 16.00 after the coffee break to visit.

Thursday, 23rd October 2025

REGISTRATION

08.30 - 17.00

IN FRONT OF ROOM L226, BUILDING L, 2ND FLOOR

09.00 - 10.00

ROOM A – L 226 – 09.00-10.00
KEYNOTE

ESM 2025 KEYNOTE

Chair: Jan van Impe, BIOTEC, University of Leuven, Ghent, Belgium



ESM_KEY_02

FUTOM: A FUZZY Tensorial Object Model to implement Object Composition and Synthesis Generative Artificial Intelligence (OCSYGENAI) with Comprehensible Reasoning Processes

Joël Colloc.....13

ROOM B – M-210 – 09.00-10.00
KEYNOTE

GAME-ON 2025 KEYNOTE

Chair: Philippe Geril, ETI, Ostend, Belgium



GAME-ON_KEY_03_ONL

[The Craft of Creating Analog Serious Games for Preparedness and Planning](#)

Micael Sousa, CAPTRS, Portugal

10.00 - 10.30

COFFEE BREAK - MEETING AREA IN FRONT OF ROOM L-226

Sessions - Thursday

Thursday, 23rd October 2025

10.30 - 12.30

ROOM A – L226 - 10.30-11.30

ESM'2025 SESSION

TRAFFIC SIMULATION

Chair: Artur Babiarz, Silesian University of Technology, Gliwice, Poland

SIM_AI_07

A Fuzzy Logic based Design Framework for Uncertainty Modelling in Ro-Ro Discrete Event Simulation

Eduardo Perea and Andoni Cortés 127

SIM_AUTO_01

Vehicle-in-the-Loop Simulation for Autonomous Heavy Off-Road and Industrial Vehicles: A Framework and Case Study

Mattias Lehto, Håkan Lideskog, Torbjörn Lindbäck, Magnus Karlberg, Petri Junttila, Pekka Seppänen, Aki Lamponen and Antti Tikanmäki 134

SIM_AI_01

Autonomous Vehicle detecting and tracking Humans

Artur Babiarz and Dawid Roczyna 143

SIM_IOT_01_ONL

Collaborative Intrusion Detection System for IIoT

Aymen Wali, Maher Boughdiri, Hichem Mrabet and Abderrazek Jemai 227

ROOM B – M-210 - 10.30-12.30

GAMEON'2025 SESSION

INTERACTIVE GAME RESEARCH AND SERIOUS GAMES

Chair: Helmut Hlavacs, University of Vienna, Austria

GAME_IF_01

Enhancing Music Practice Motivation: A Gamified Approach

Hanna Flatz, Helmut Hlavacs, Soleil Fröhlich and Erika Spring 23

GAME_AFFECT_01_ONL

On the Possibility of Empathy in Digital Games: Expert Perspectives

Tânia Ribeiro, Ana Isabel Veloso and Peter Brinson 30

GAME_SER_01

Adopting Commercial Cooperative Game Development Practices for Increased Effectiveness of Serious Games for Education

Hussain Alibrahim, Rich Davison and Gary Ushaw 41

Thursday, 23rd October 2025

GAME_SER_03

A Development and Primary Evaluation of Serious Games to Improve Understanding of Influence Operations

Keita Tsuchiya, Ryota Sugisaki, Kazumi Sekiguchi, Akira Kinai, Kosuke Zaitzu, Masakazu Furuichi, Nynke Diana Schouten and Bryan Dinsbach..... 50

12.30 - 13.30

LUNCH BREAK - MEETING AREA IN FRONT OF ROOM L-226

13.30 - 15.00

ROOM A – L226 - 13.30-15.00

ESM'2025 SESSION

MACHINE LEARNING

Chair: Satyajeet S. Bhonsale, BIOTEC, University of Leuven, Ghent, Belgium

SIM_AGENT_03_LEARN

Towards Foundation Action Models for Reinforcement Learning

Establishing Software Infrastructure

Eric MSP Veith and Torben Logemann 46

SIM_AI_03

Deep Reinforcement Learning Driven Structural Adaptive Process Mining

Shengrui Peng and Helena Szczerbicka 49

SIM_BIO_O6_ONL

Simulation of Ultrasound Propagation in a Layered Medium to Construct

Training Vectors for Machine Learning

Piotr Synoś, Marek Jaszuk, Marek Giebułtowski and Henryka Czyż..... 43

ROOM B – M-210 - 13.30-15.00

GAMEON'2025 SESSION

GAME DESIGN

Chair: Tania Ribeiro, Digimedia, University of Aveiro, Portugal

GAME_SIM_AI_03

Towards A Graph-Theoretical Framework for Modeling and Analyzing

Escape Game Mechanics

Gonzague Yernaux, Martin Verjans and Wim Vanhoof 5

GAME_DES_03

Comparative Analysis of Procedural Planet Generators

Manuel Zechmann and Helmut Hlavacs.....15

Sessions - Thursday

Thursday, 23rd October 2025

GAME_DES_01_ONL

Beyond Euclidian Play - Integrating 4D Geometry into Game Mechanics and Simulation Systems

Oana (Rinaldi) Unciuleanu..... 10

15.00 - 15.30

COFFEE BREAK - MEETING AREA IN FRONT OF ROOM L-226

15.30 - 17.30

ROOM A – L226 - 15.30-17.00

ESM'2025 SESSION

MACHINE LEARNING FOR HUMAN INTERFACES

Chair: László Barna Iantovics, George Emil Palade University, Romania

SIM_AI_04

Quantifying and Predicting Interface Forces across Postures and Frequencies during Whole-Body Vibration Exposure

Saleh AlBaiti and Naser Nawayseh..... 107

SIM_BIO_03

Personal Eye Blink Detection System

Krzysztof Jaskot 114

SIM_AI_09_ONL

A Conceptual Framework for Simulating Human-AI Collaboration in Product Design: Evaluating User Perceptions using Machine Learning Algorithms

Pancho Dachkinov, Paulina Tsvetkova, J. David Nuñez-Gonzalez and Mayiana Mitevska..... 119

ROOM B – M-210 - 15.30-17.30

ESM'2025 SESSION

EMERGENCY MANAGEMENT SIMULATION

Chair: Eric Veith, Carl von Ossietzky University Oldenburg, Germany

SIM_OP_04_FIN_AI_FUZ

Interactive Portfolio Selection under Vague Investor's Preferences

Adam Borovička..... 95

SIM_AI_11_MGMT

Application of Artificial Intelligence for Decision Support within Crisis Management

Daniel Chovanec, Boris Kollár, Jozef Ristvej, Jozef Jelšík and Vladimír Andrassy .. 169

Thursday, 23rd October 2025

SIM_EMERG_01_LEARN_ONL

**Building a Combat Simulation Environment for Testing AI Agents for
COA Selection Based on Reinforcement Learning**

Andrzej Najgebauer **151**

SIM_EMERG_02_ONL

**The Simulation and Analytical Toolset for Multidirectional Allocation
Problem of Operational Analysis Informing Strategy Planning Process**

Andrzej Najgebauer, Ryszard Antkiewicz and Dawid Maślanik **159**

19.30 - 23.00

19.30 - 23.00

CONFERENCE DINNER



From 19.30 p.m to 23.00 p.m.

The conference dinner will be held
on **Thursday the 23rd of
October** in the evening at
De Acht Zaligheden

Oudburg 29

9000 Gent

 Tel: + **32. 9 224 31 97**

Website:

<https://www.deachtzaligheden.be/en>



Conference Dinner

Friday, 24th October 2025

REGISTRATION

09.00

IN FRONT OF ROOM L226, BUILDING L, 2ND FLOOR

09.00 - 10.00

ROOM A – L 226 – 09.00-10.00

ESM'2025 INVITED

INVITED SPEAKER

Chair: Philippe Geril, ETI, Ostend, Belgium



GAME-ON_INV_01

[Detecting and Correcting Semantic Inconsistencies in Heterogeneous System Modeling Views](#)

Bastien Sultan, LabSoC research team, Télécom Paris, France

10.00 - 10.30

COFFEE BREAK - MEETING AREA IN FRONT OF ROOM L-226

10.30 - 12.00

ROOM A – L 226 - 10.30-12.00

ESM'2025 SESSION

CRITICAL STRUCTURES SIMULATION

Chair: Philippe Geril, ETI, Ostend, Belgium

SIM_OP_03

A Method for assessing the Resilience of Critical Infrastructures, with Consideration of Interdependencies

Piotr Stapor and Ryszard Antkiewicz.....177

SIM_LEARN_01

Mix Matters: Technical Evaluation of a Carbon-Aware Power Plant Operation Strategy for an Industrial Area in Bremen

Danila Valko, Sharaf Alsharif and Sven Rosinger..... 188

Friday, 24th October 2025

SIM_MC_03

From Bounded Error to Zero Variance: A Practical Importance Sampling Method for Rare Events in Safety-Critical Systems

Tim Gonschorek and Frank Ortmeier 197

ROOM B – M-210 - 10.30-12.00

ESM'2025 SESSION

SIMULATION IN BIOLOGY

Chair: Joël Colloc, Université of Le Havre, France

SIM_BIO_05

Non-Invasive Complete Hemodynamic Model to investigate the Effects of Multi-Stenosis in Patient-Specific Coronary Arteries

Hacer Duzman, Emre Cenk Ersan and Mustafa Serdar Celebi.....205

SIM_BIO_11_ONL

Optimal Control of Combined Cancer Therapy in a Tumor Vasculature Model: Analysis and Simulation

Mariusz Bodzioch 220

SIM_BIO_07_ONL

Stochastic Differential Modelling of Multicellular Tumor Growth under Radiation, Chemotherapy, Differentiation Therapy and Competition Dynamics

Beata Jackowska-Zduniak..... 212

12.00 - 12.15

ROOM A – L226 - 12.00-12.15 ESM'2025 – GAME-ON'2025 SESSION CLOSING SESSION

Chair: Philippe Geril, ETI, Ostend, Belgium

ESM®'2025 – GAME-ON®'2025 Closing Session and Best Paper Award

12.15 - 13.00

LUNCH BREAK - MEETING AREA IN FRONT OF ROOM L-226

FOR POST CONFERENCE VISIT PARTICIPANTS ONLY

Sessions - Friday

ESM®'2026

ESM®'2026



ESM®'2026, October 21-23, 2026,
National Engineering School (ENIM), Metz, France

Proposals for workshops, special tracks, exhibitions etc. can be sent in by
December 2025 to Philippe.Geril@eurosis.org

GAME-ON®'2026

Location TBA in November 2025

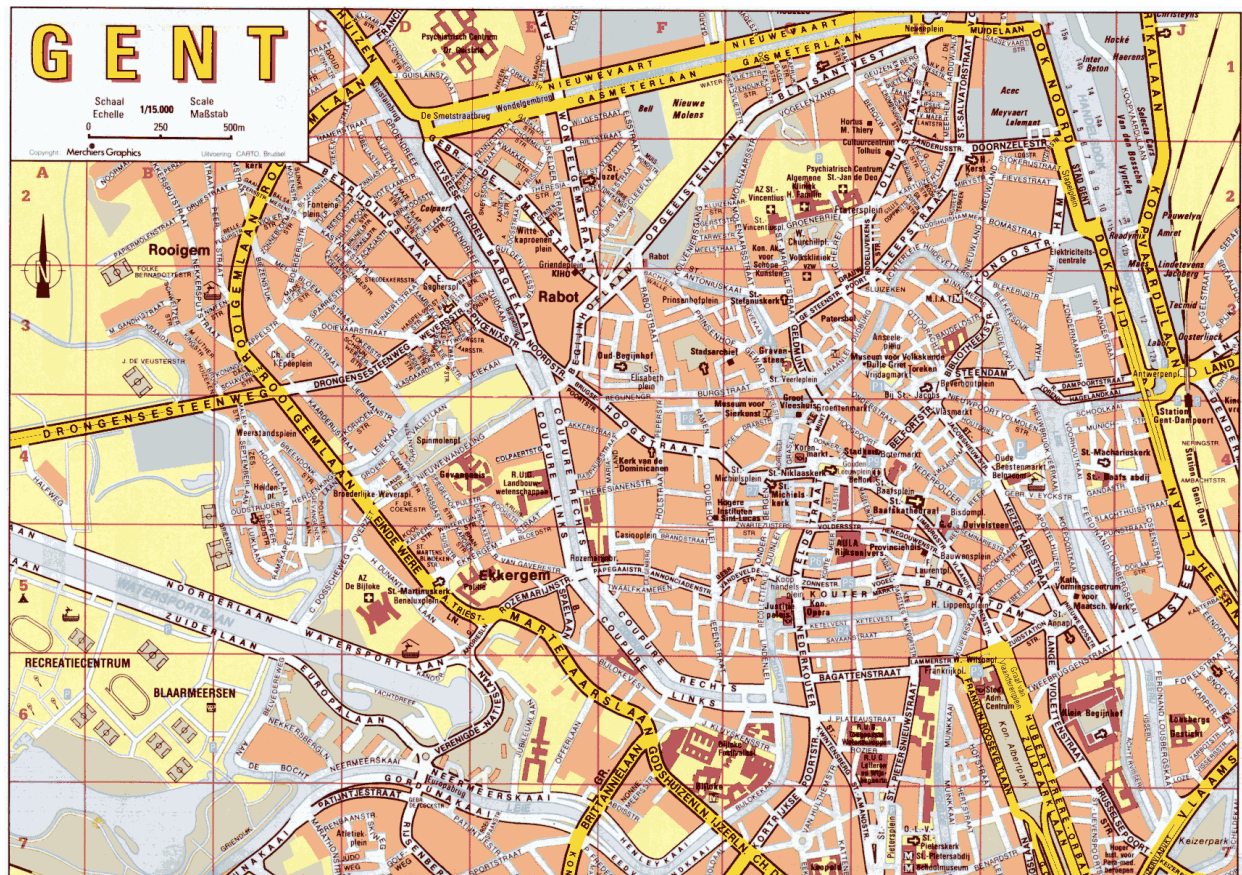
Proposals for workshops, special tracks, exhibitions etc. can be sent in by
November 30, 2025 to Philippe.Geril@eurosis.org

Conference Site Map



The conference takes place in rooms L 226 and M 210 in Building L./M. The coffee breaks and lunches are in Building L in the meeting space in front of room L226

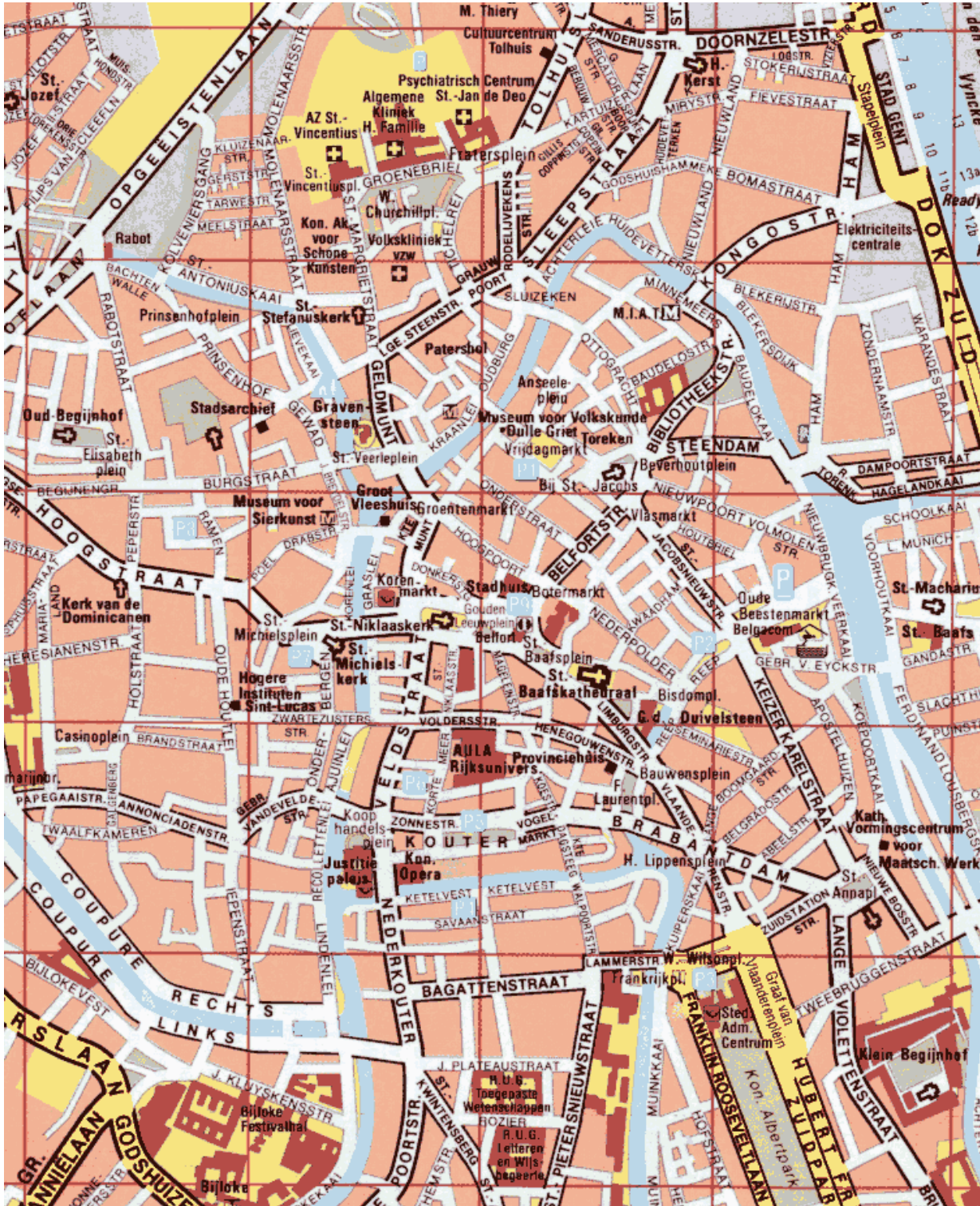
Conference Site Map



You will find the conference location on this map in quadrant E3
(KIHO/ODISEE)

Conference Site Map

Conference Dinner site location from left 2 down/3 across



Conference Site Map

Conference Notes

NOTES

ESM®'2025- GAME-ON®'2025 At-Conference Registration Form

Please legibly print or type and fill out completely. (Check appropriate boxes where necessary)

FIRST NAME	LAST NAME	M.I.
COMPANY OR AFFILIATION		
Mailing address (tick one): ☐ HOME ☐ BUSINESS		
STREET		
CITY		
ZIPCODE	COUNTRY	
TELEPHONE	FAX	
E-MAIL		
DATE	SIGNATURE	
1. ☐ EUROSIS member € 595 Member Number: _____		€ _____
2. ☐ Members of Sponsor or Affiliate Society € 595		€ _____
3. ☐ Non-Member Participant € 635		€ _____
4. ☐ Student Participant € 455		€ _____
5. ☐ Students, <u>who are not authors</u> but who wish to attend the conference, or ONE DAY PARTICIPANTS pay: € 430		€ _____
(Above registration fees include, one copy of the PROCEEDINGS, all midday meals, cocktail, refreshments, coffees and social program,) One Day Participants and Non-Author Students cannot participate in the conference dinner.		
6. ☐ Tutorial registration ONLY - €30 (students) Or €80 (non students)/ per tutorial		€ _____
6. ☐ Conference Dinner Ticket for Companion € 90 ☐ Lunch Ticket for Companion € 20/day		€ _____
7. ☐ Extra Conference Proceedings € 60/€ 35 (Cash and Carry)		€ _____
VAT Number if applicable: _____		
TOTAL AMOUNT DUE		€ _____
<u>ADD 21% VAT (Value Added Tax) OBLIGATORY</u>		€ _____
TOTAL AMOUNT REMITTED		€ _____

☐ 2) Pay by **CREDIT CARD** and fill in the information below:

Charge my (tick one): ☐ Visa ☐ Euro/Mastercard ☐ American Express

CARD NO: _____ : _____ : _____ : _____ EXP.DATE: ____ / ____

Authorizing Signature:

Print Signature in CAPITALS



EUROSIS was borne out of discussions with the European Community to set up a new kind of Society, which would be project driven instead of driven by pure membership and conferences.

The aim of EUROSIS is to set up topic related Technical Committees which will link directly to European Projects in the field of computer simulation and related areas and to act as a knowledge pool for future European Networks of Excellence, like MOSAIC.

If you would like to receive more information about EUROSIS, please contact

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Please send me info on EUROSIS:

Name:

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