ESM®’2022 FOR THIS YEAR IS A HYBRID EVENT

ONLINE PRESENTATIONS ARE DENOTED BY _ONL AFTER THE PAPER CODE

The ESM®’2022 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.
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General Information

1. Conference Location

The ESM®'2022 Conference is being held at

Instituto Superior de Engenharia do Porto
Rua Dr. António Bernardino de Almeida,
431, 4249-015 Porto, Portugal
Tel:+351 22 83 40 500
Email: egm@isep.ipp.pt and icp@isep.ipp.pt

The Faculty of Engineering of University of Porto's (FEUP) is located at about 4 kilometers from the city centre.

The registration desk will be placed in the hallway downstairs in Building E from Wednesday morning October the 26th onwards, where registration will start at 08.30 a.m. and will end at 5.00 p.m. On Thursday October 27th registration will be from 08.30 a.m. - 5.00 p.m. with Friday registration only from 9.00 a.m.- 9.30. a.m. The way to the conference and desk will be signposted.

ALL MAJOR MAPS ARE AT THE BACK OF THIS PROGRAMME

How to reach the conference location in Porto:

By Plane
Porto is served by Francisco Sa Carneiro Airport (IATA: OPO) which is located some 15km to the north-west of the city centre. The airport is served by Line E of Porto Metro, linking it to downtown Porto, pendolino trains and Estâdio do Dragão, and by transfer to other urban centres of Greater Porto: in Verdes station to Vila do Conde and Pavao de Varzim (using line B), Fonte do Cucu station to Maia (line C), and Senhora da Hora station to Matosinhos (line A).

STCP Buses link the airport and the city. Individual fare is EUR 1.20. AEROBUS is a relatively fast connection between the Airport and downtown Porto, including the city's leading Hotels, every 30 minutes, from 07h45m till 19h15m. The fare is EUR 4.00 and the ticket is valid on all STCP lines, until midnight of the same day. There is also a bus service to/from Vigo (Galiza/Spain) twice a day on weekdays, and once a day during the weekend.

The average fare for a taxi between the Airport and the city centre is around EUR 20.00. Volumes exceeding 55x36x20cm which need to be carried in the luggage compartment are charged EUR 1,50.

By Train
Porto's main railway station is situated in Campanha, on the main line to
General Information

Lisbon. From here, both metro and suburban rail services go to the city centre. The main central station is at Sao Bento, which is itself a notable attraction.

By Bus
The city has an extensive bus network run by the STCP (Sociedade dos Transportes Colectivos do Porto, or Porto Public Transport Society) which also operates lines in the neighbouring cities of Gaia, Maia and Gondomar. Search for a bus-stop of the bus number 6, which takes you direct to the University.

By Metro
The Porto Metro system has at present five lines: lines A (blue), B (red), C (green) and E (purple) all begin at Estadio do Dragao (home to FC Porto) and terminate at Senhor do Matosinhos, Pavao de Varzim (via Vila do Conde), ISMAI (via Maia) and Francisco Sa Carneiro airport respectively. Line D (yellow) currently runs from Hospital S. João in the north to Joao de Deus on the southern side of the Douro river. The lines intersect at the central Trindade station.
This is the best way for reaching the conference. FEUP/ISEP is about 300 m away from the final station. Take the Metro YELLOW line (Line D) in the centre of the town in the direction of “P. Universitário” and get out on this last stop.
The system uses the "Andante" ticketing system, the first fully contactless ticketing system used in public transportation in the world. See a map for help here.
You can download copies of the metro maps here. Map 1 or Map 2

By Car
The road system capacity is augmented by the Via de Cintura Interna, an internal highway connected to several national highways and city exits, complementing the Circunvalaco 4-way road, which borders the north of the city and connects the eastern side of the city to the Atlantic shore. The easiest way to get to FEUP by car, is to follow the circle road around the town (via de cintura interna) and follow the signs to HOSPITAL DE SÃO JOÃO, in the direction to BRAGA. Hospital de Sao Joao is very near FEUP. The problem is usually parking space. See a map for help here.

By Taxi
Taxicabs are available throughout the city and are recognizable as cream sedans (usually Mercedes-Benz models). Within the city, the rates charged are those shown in the meter at the end of the ride. For other areas the fare is calculated at 0.35 EUR per Km after leaving the city limits. Any tolls (round trip) are paid by the client. On Saturdays, Sundays and national holidays, and Monday to Friday between 10 p.m. and 6 a.m., a 20% rate applies to normal fares.
General Information

Two companies working in the Porto area are:
Radio Taxis Os Unidos - Tel: 225029898
Invicta Radio Taxis do Porto - Tel: 225076400

ESM®'2022 VIRTUAL PARTICIPATION AND PRESENTATION

As some ESM®'2022 participants have opted for an online presentation stated we are opening up a virtual environment for the ESM®'2022 presentations using ZOOM: https://zoom.us/ A first trial is envisaged on Friday the 21st of October from 14h00 to 15h00.

2. Login

Each 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.

3. Tickets

Prices of extra tickets for non-registered companions

<table>
<thead>
<tr>
<th>Extra conference dinner</th>
<th>€ 65</th>
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<tbody>
<tr>
<td>Extra lunch ticket</td>
<td>€ 20</td>
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4. Registration

The ESM®'2022 Registration will be open onsite in the hallway downstairs in Building E and online for information and registration info for those already registered. AT CONFERENCE REGISTRATION CAN ONLY BE DONE ONLINE FOR THOSE STILL WISHING TO REGISTER AS A VIRTUAL PARTICIPANT AT THIS TIME

https://www.eurosis.org/conf/esm/2022/email-registration.html

Wednesday, October 26....... 8.30 a.m. to 5.00 p. m.
Thursday, October 27......... 9.00 a.m. to 5.00 p. m.
Friday, October 28 ............ 9.00 a.m. to 9.30 a.m.

5. Conference Proceedings

Each electronic fully paid registrant will be provided with an electronic copy of the Conference Proceedings. Fully paid onsite participants will be provided with a printed copy of the conference proceedings as well as an electronic copy. This is NOT applicable to students who are not authors and who have not fully registered. (Extra electronic or printed copies are available after ESM®'2022)
General Information

Price: (or equivalent in another currency) for an extra copy

| Printed ESM®’2022 Proceedings | € 60 plus 30% shipping costs |

6. Meeting Rooms and Room Legend

The ESM®’2022 conference will be held in parallel meeting rooms designated ROOM A (October 26 - "Sala de Atos" – October 27 and 28 - "Auditório Vitor Santos" and ROOM B (October 26 - “Sala de Reuniões”) in this programme.

7. Need Help?

Please see the registration desk or contact EUROSIS (philippe.geril@eurosis.org) for your questions.

8. Social Event and Lunches

All registrants are invited to

All Coffee Breaks are served in the

Hallway BUILDING E
Instituto Superior de Engenharia do Porto
Rua Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal

All lunches on the 26th and 27th are served at

the Vitor Santos room BUILDING E
General Information

The Conference Dinner
All participants are invited to the conference dinner on THURSDAY the 27th of October. As we need to give an exact number of participants we would appreciate your confirmation at the desk before Wednesday lunchtime. The dinner location will be communicated at the conference. The location will be communicated at the conference.

9. Conference Visit
All onsite participants are invited to come and visit the ISEP Museum of the School of Engineering at 17.00 on Wednesday the 26th of October.

10. Best Paper Award
During the conference the papers, which were accepted as extended papers will be judged by the committee and conference participants in order to choose the best paper of the ESM®’2022 conference.

The best paper author of the conference receives a certificate and a free registration to any EUROSIIS event held within 2 years after receiving the best paper award. This registration waiver is only VALID FOR 2 YEARS AFTER RECEIPT AND FOR 1 (ONE) PERSON. In case of multiple authors, one (1) author only can use the registration waiver.
## Session Chairs information

**ALL 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** In case they chair a session featuring extended papers, then they are required to distribute and collect the reviews of that or those papers at the beginning and end of the session. If they have time they should also indicate in their papers the number of session participants.

**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**

**CHECK OUT THE OTHER EUROSIS EVENTS ON OUR WEBSITE:**

http://www.eurosis.org
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<td>09.00-09.10</td>
<td>WELCOME BY ISABEL PRAÇA AND EVA MAIA – ESM'2022 CONFERENCE CHAIRS</td>
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<td>KEYNOTE SPEECH BY DAVID HILL</td>
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<td>ROOM B: NATURAL DISASTER</td>
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Wednesday, 26\textsuperscript{th} October 2022

Registration Onsite and Online
08.30 - 17.00

ROOM A - Sala de Atos - 09.00 – 09.10
Opening ESM’2022 and Welcome

Welcome Address
Prof. Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal
Eva Maia, PhD, ISEP, Polytechnic of Porto, Porto, Portugal
ESM’2022 General Conference Chairs
09.10 – 10.00

ROOM A – Sala de Atos - 09.10-10.00
KEYNOTE SPEAKER
Chair: Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal

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Chair: David Hill, CNRS-LIMOS, Univ. Clermont Auvergne INP, France

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15.00 – 17.00

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Chair: Libero Camilleri, University of Malta, Msida, Malta

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17.00

CONFERENCE VISIT

All onsite ESM®’2022 participants are invited to visit the ISEP Museum of
Engineering for a guided tour.

Museum of the School of Engineering (ISEP)
Rua Dr. António Bernardino de Almeida,
431, 4200-072 Porto
http://www.helloguideoporto.com/en/oporto/culture/museums/museum-of-
the-school-of-engineering
Thursday, 27th October 2022

Online Registration
08.30 - 17.00

09.00 – 10.00

ROOM A- “Auditório Vitor Santos” - 09.00-10.00
INVITED SPEAKER
Chair: Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal

INV_01
CHOOM: a CHemical Object Oriented Model for Prediction of the Toxicity and Sustainability of New Molecules in Food and the Environment
Joël Colloc

10.00 – 10.30
COFFEE BREAK

10.30 – 12.30

ROOM A- “Auditório Vitor Santos”- 10.30-12.30
ROB-AUTO
ROBOTS AND AUTONOMOUS VEHICLE SIMULATION
Chair: Adam Galuszka, Silesian Univ. of Technology, Gliwice, Poland

SIM_AI_01_ONL
OHBOT Social Robots Emotion Modeling using Markov Chains and YOLOV5 Neural Network
Eryka Probierz, Adam Gałuszka, Tomasz Grzejszczak and Anita Gałuszka

SIM_AI_05_ONL
Full Parallel Multi Swarm PSO
Monia Ettouil and Abderrazak Jemai
Thursday, 27th October 2022

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Maximilian Kormann, Imke Lisa Krüger, Roberto Licata and Frederic Chauvin .......................................................... 122

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13.30 - 15.00

ROOM A- “Auditório Vitor Santos” -13.30-15.00
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Thursday, 27th October 2022

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**CONFERENCE DINNER**
Location to be announced at the conference
## Friday, 28th October 2022

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### 10.00 - 10.30

COFFEE BREAK

### 10.30 – 12.30

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Chair: Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal

Prof. Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal
Eva Maia PhD, ISEP, Polytechnic of Porto, Porto, Portugal
Philippe Geril, EUROSI S, Ostend, Belgium

END OF CONFERENCE
CAMPUS MAP

- Presentations' Rooms: “Auditório C302”; “Sala Aula C219”; “Auditório C202”; “Sala Aula C218”; “Sala Aula C220”
- Welcome Desk, Presentations’ Rooms: “Auditório Vítor Santos”; “Sala de Reuniões”; “Sala de Atos” and Foyer (coffee breaks)
- Lunches’ Restaurant
- You are here!

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October 2023

(exact dates to be confirmed shortly)

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Proposals for future ESM locations can be emailed to 
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Other upcoming EUROISIS conferences
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Belgium (TBC)
ISC’2023, May 31-June 2, 2023, University of Malta, Valletta, Malta.
GAME-ON’2023, September 2023, Carlow, Ireland (TBC)
ESM’2023, October, 2023, ISAE-SUPAERO Toulouse, France
SCIFI-IT’2024, April 2024, University of Leuven/Ghent Research
Centre, Ghent, Belgium
FOODSIM’2024, April 2024, University of Leuven/Ghent Research
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Centre, Ghent, Belgium
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If you would like to receive more information about EUROSIS, please contact

**Philippe Geril**  
EUROSIS-ETI  
Bluebridge – Ostend Science Park  
Wetenschapspark 1, Plassendale 1  
B- 8400 Ostend, Belgium  
☎ Tel: +32.59.255.330  
✉ Email: Philippe.Geril@eurosis.org

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