FINAL PROGRAM

26-28 October 2022

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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 Estádio do Dragão, and by transfer to other urban centres of Greater Porto: in Verdes station to Vila do Conde and Pavoa de Varzim (using line B), Fonte do Cuco 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

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, Pavoa 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. Universita¡rio" 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

Extra conference dinner	€ 65
Extra lunch ticket	€ 20

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 EUROSIS 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

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 responsiblity 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

Session Chair Info

WEDNESDAY, 26th OCTOBER 2022	
08.30-17.00	**REGISTRATION**
09.00-09.10	**WELCOME BY ISABEL PRAÇA AND EVA MAIA – ESM'2022 CONFERENCE CHAIRS - ROOM A - "Sala de Atos" Building E**
09.10-10.00	**KEYNOTE SPEECH BY DAVID HILL - ROOM A - "Sala de Atos" Building E**
10.00-10.15	**COFFEE BREAK**
10.15-12.15	**PARALLEL SESSIONS**

	ROOM A "Sala de Atos" - Building E	ROOM B "Sala de Reuniões" – Building E
	MODELLING METHODOLOGY	**NATURAL DISASTER AND POPULATION EMERGENCY MANAGEMENT**

12.15-13.15	**LUNCH BREAK**
13.15-14.45	**PARALLEL SESSIONS**

	ROOM A "Sala de Atos" - Building E	ROOM B "Sala de Reuniões" – Building E
	SECURITY MANAGEMENT SIMULATION	**SIMULATION IN IOT**

14.45-15.00	**COFFEE BREAK**
15.00-17.00	**PARALLEL SESSIONS**

	ROOM A "Sala de Atos" - Building E	ROOM B "Sala de Reuniões" – Building E
	CRITICAL RESOURCES MANAGEMENT	**FINANCIAL SIMULATION AND DATA MANAGEMENT**

17.00	**CONFERENCE VISIT**

THURSDAY, 27th OCTOBER 2022		
08.30-17.00	**REGISTRATION**	
09.00-10.00	**INVITED SPEECH BY JOËL COLLOC - ROOM A - "Auditório Vitor Santos" Building E**	
10.00-10.30	**COFFEE BREAK**	
10.30-12.30	**SESSION**	
	ROOM A **"Auditório Vitor Santos" - Building E**	**ROOM B**
	ROBOTS **AND** **AUTONOMOUS** **VEHICLE SIMULATION**	
12.30-13.30	**LUNCH BREAK**	
13.30-15.00	**SESSION**	
	ROOM A **"Auditório Vitor Santos" - Building E**	**ROOM B**
	IMAGE ANALYSIS **AND** **MACHINE LEARNING**	
15.00-15.30	**COFFEE BREAK**	
15.30-18.00	**SESSION**	
	ROOM A **"Auditório Vitor Santos" - Building E**	**ROOM B**
	SIMULATION **IN LOGISTICS** **AND** **MANUFACTURING**	
18.00	**END OF DAY II**	
19.30-22.30	**CONFERENCE DINNER**	

FRIDAY, 28th OCTOBER 2022		
09.00-09.30	**REGISTRATION**	
09.00-10.00	**WORKSHOP BY MARIA IOANNA MALLIAROUDAKI - ROOM A - " Auditório Vitor Santos " Building E**	
10.00-10.30	**COFFEE BREAK**	
10.30 13.00	**SESSION**	
	ROOM A **"Auditório Vitor Santos" Building E**	**ROOM B**
	SIMULATION **IN BIOLOGY** **AND** **NUTRITION**	
13.00-12.45	**CLOSING SESSION AND BEST PAPER AWARD ROOM A – "Auditório Vitor Santos" Building E**	
12.45	**END OF CONFERENCE**	

NOTES

Notes

NOTES

Wednesday, 26th 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   **KEY**
KEYNOTE SPEAKER
Chair: Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal

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David Hill……………………………………………………………..**5**

10.00 - 10.15
COFFEE BREAK

Welcome

Wednesday, 26th October 2022

10.15 – 12.15

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

ROOM B – Sala de Reuniões - 10.15-12.15   **EMERG**
NATURAL DISASTER AND POPULATION EMERGENCY MANAGEMENT
Chair: Maria Ioanna Malliaroudaki, Univ. of Nottingham, Nottingham, UK

Wednesday, 26th October 2022

SIM_BIO_02_ONL
Optimal Control applied to SIS-Type Cross Epidemic Model for
Heterogeneous Populations

SIM_EMERG_MGMT_10
Multilevel Survival Models to investigate Survival Durations of Patients
requiring Aortic Valve Replacement

12.15 - 13.15
LUNCH BREAK

13.15 – 14.45

ROOM A – Sala de Atos - 13.15-14.45   **EMERG**
SECURITY MANAGEMENT SIMULATION
Chair: Eva Maia, ISEP, Polytechnic of Porto, Porto, Portugal

SIM_EMERG_MGMT_05
Item Response Models to investigate Maltese Attitudes towards Xenophobia

SIM_EMERG_MGMT_01
Building Readiness using available Modelling and Simulation Resources

SIM_EMERG_MGMT_04
Simulating the Evacuation of a Subway Station after a Sarin Release

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ROOM B – Sala de Reuniões -13.15-14.45   **IOT**
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Chair: Joël Colloc, Université of Le Havre, Le Havre, France

IOT_SMART_01_ONL
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Wednesday, 26th October 2022

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COFFEE BREAK

15.00 – 17.00

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

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Wednesday, 26th October 2022

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Chair: Eva Maia, ISEP, Polytechnic of Porto, Porto, Portugal

METH_05_ONL
Regular Versus Sequential Stock Investing: Mean-Variation
Range-Probability of Loss Model

SIM_OPT_01
On Multi-Armed Bandits and Debt Collection

ANMT_04_ONL
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Cellular Networks using PRISM Model Checker

CLOUD_01_ONL
A Comprehensive Study of Data Protection in Public Cloud Computing

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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

Parallel Sessions - Wednesday

Thursday, 27th October 2022

Online Registration

08.30 - 17.00

09.00 – 10.00

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

INV_01
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Joël Colloc**……………………………………………..……..10**

10.00 – 10.30
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10.30 – 12.30

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12.30 – 13.30
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13.30 - 15.00

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15.00 - 15.30
COFFEE BREAK

15.30 – 18.00

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SIMULATION IN LOGISTICS AND MANUFACTURING
Chair: Gerrit Janssens, UHasselt, Diepenbeek, Belgium

Thursday, 27th October 2022

19.30

CONFERENCE DINNER

Location to be announced at the conference

Friday, 28th October 2022

Online Registration

09.00 - 09.30

09.00 – 10.00

**ROOM A - "Auditório Vitor Santos" - 09.00-10.00   WORK
WORKSHOP**
Chair: Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal

WORK_01
**Modelling Energy Consumption in Industrial Processes
with Consideration to Sustainability and Safety**
Maria Ioanna Malliaroudaki (MEng), PhD researcher at the
University of Nottingham - Research fellow of MSCA
PROTECT-ITN

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

**ROOM A - "Auditório Vitor Santos" 10.30-12.30   BIO
SIMULATION IN BIOLOGY AND NUTRITION**
Chair: Philippe Geril, ETI, Ostend, Belgium

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Movements**
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Friday, 28th October 2022

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CLOSING SESSION AND BEST PAPER AWARD
Chair: Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal

Prof. Isabel Praça, ISEP, Polytechnic of Porto, Porto, Portugal

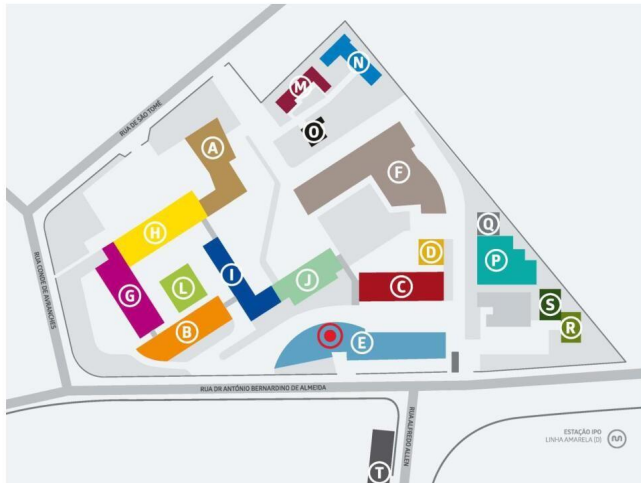Eva Maia PhD, ISEP, Polytechnic of Porto, Porto, Portugal

Philippe Geril, EUROSIS, Ostend, Belgium

12.45

END OF CONFERENCE

CAMPUS MAP

Campus ISEP Map

C — **- Presentations' Rooms :** "Auditório C302"; "Sala Aula C219"; "Auditório C202"; "Sala Aula C218"; "Sala Aula C220"

E — **- Welcome Desk, Presentations' Rooms:** "Auditório Vitor Santos": "Sala de Reuniões"; "Sala de Atos" and Foyer (coffee breaks)

F — **- Lunches' Restaurant**

⊙ — **- You are here!**

Address: Instituto Superior de Engenharia do Porto- is Instituto Superior de Engenharia do Porto, Rua Dr. António Bernardino de Almeida (street name), 431, 4249-015 Porto (zip code), Portugal
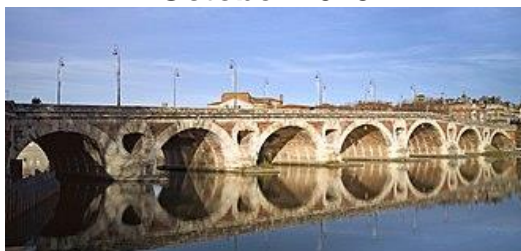
Coordinates:

Geographic:	Decimal:
41º10'43" N	Latitude: 41,17878
8"36'22' W	Longitude: -8,60622
	UTM:
	4558659 N
	533037 E

ESM'2023

SEE YOU ALL AT

ESM'2023, ISAE-SUPAERO, Toulouse, France, October 2023

(exact dates to be confirmed shortly)

Track proposals and tutorial proposals can be sent in by
January 15th, 2023
Proposals for future ESM locations can be emailed to
philippe.geril@eurosis.org

Other upcoming EUROSIS conferences
SCIFI-IT'2023, April 2023, Royal Military Academy, Brussels, 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 Centre, Ghent, Belgium
ESM'2025, October 2025 University of Leuven/Ghent Research Centre, Ghent, Belgium

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 the Society is to set up and manage 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, HORIZON2020, ERASMUS+ by seeking out the latest innovations in simulation, modelling and AI research.

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

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Email: Philippe.Geril@eurosis.org

Please send me info on EUROSIS:
Name:...
Address: ....
 ....
 ....
Telephone ....
Fax: ....
Email: ....

EUROSIS Info

ESM'2022 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 € 565 **Member Number**:_____	€_____
2. [ ] Members of Sponsor or Affiliate Society € 565	€_____
3. [ ] Non-Member Participant € 625	€_____
4. [ ] Students, <u>who are not authors</u> but who wish to attend the conference, or **ONE DAY PARTICIPANTS** pay: € 470	€_____
(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. – NOT APPLICABLE	
5. [ ] Conference Dinner Ticket for Companion € 60 **[] Lunch Ticket** for Companion €20 /day	€_____
6. [ ] Extra Conference Proceedings € 60 **Cash and Carry**	€_____
VAT Number if applicable: _____	
TOTAL AMOUNT DUE	€_____
	€_____
TOTAL AMOUNT REMITTED	€_____

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