

$$\text{curl } \mathbf{H} = \mathbf{J} + \frac{\partial \mathbf{D}}{\partial t}$$

$$\text{curl } \mathbf{E} = - \frac{\partial \mathbf{B}}{\partial t}$$

## PROGRAM AND BOOK OF ABSTRACTS

[www.eurocon2011.it.pt](http://www.eurocon2011.it.pt)

IST CONGRESS CENTRE  
LISBON • PORTUGAL

APRIL • 27 • 28 • 29

# EUROCON • 2011

INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

joint with

**conf**  
**2011**  
**tele**

$$W_T = \int_0^T \left( \int_S (\mathbf{E} \times \mathbf{H}) \cdot \mathbf{n} dS \right) dt$$

$$\text{div } \mathbf{B} = 0$$

$$W_T = \int_0^T \left( \int_S (\mathbf{E} \times \mathbf{H}) \cdot \mathbf{n} dS \right) dt$$

$$\text{curl } \mathbf{H} = \mathbf{J} + \frac{\partial \mathbf{D}}{\partial t}$$



$$\text{curl } \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$$

MESSAGE FROM EUROCON.CONFTELE 2011 GENERAL AND TPC CHAIRMEN

EUROCON 2011 › INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

## ➤ MESSAGE FROM EUROCON.CONFTELE 2011 GENERAL AND TPC CHAIRMEN

On behalf of the Organizing Committee, we would like to welcome all colleague participants at the EUROCON / ConfTele 2011 Lisbon, Portugal. Thanks to all authors (we have initially received over 450 papers with more than 1050 authors), to the 14 TPC Co-Chairs and the 317 reviewers, we have been able to organize a diversified but consistent technical program with a significant number papers on all main proposed topics. Since this year's edition of Eurocon is organized jointly with the Conftel, run in Portugal every other year by Instituto de Telecomunicações since 1997, the topics with more papers are those common to previous Conftel's: Telecommunication and Multimedia Systems (119 papers), Circuits and Systems (77 papers), and Information Technologies and Intelligent Systems (21 papers). These 3 Topics are concentrated on the first two days. The Topic of Power Systems and Renewable Resources, marginal in previous Conftel's editions, is usually a strong topic on Eurocon. This year is not an exception (50 papers). Almost a full day (last day) is devoted to this important topic for today's Electrical and Computer Engineers. Finally, the other two topics are horizontal topics, with interest for all EEC community: Education (26 papers) and Engineering Management (8 papers). Additional to these high technical/scientific papers we have two keynote speakers at the opening session presenting topics of general interest to all community: Innovation & Entrepreneurship (University/Industry Role); and International Cooperation on the Information Society and Media (e-Infrastructure - EU approach) Closing the 3 days event we have organized a Panel discussion on Renewable Energies and Smart Grids.



**GENERAL CHAIR EUROCON.CONFTELE 2011**

**João Costa Freire**

Instituto de Telecomunicações/Instituto Superior Técnico  
Portugal



**TPC CHAIR EUROCON.CONFTELE 2011**

**José Carlos Pedro**

Instituto de Telecomunicações/Universidade de Aveiro  
Portugal

The IEEE Region 8 Student Paper Contest, organized by the IEEE Region 8 Committee, will be part of the program on the afternoon of the first day with the oral presentation of 5 selected papers. The winner will be announced at the Conference Banquet on Thursday April 28. A special social program was prepared, where the traditional Portuguese cuisine, with influences from East and West, and the Portuguese and world folk and classic music was not forgotten.

It was from Lisbon that in the XV century the Portuguese started the Discoveries Era to meet and exchange cultures and technology with other nations from all corners of the world namely Africa, western and eastern coast, Asia, from Gulf Area till Japan, and South America. Accordingly, in the XXI century, Lisbon constitutes a nice spot for experts in electro-technology and computers to share their experiences and know-how.

Having Lisbon and its surroundings as background - with a lot of monuments mainly from medieval (Romanesque and Gothic) till Baroque and modern periods and nice sceneries (small mountains and sea shore with nice sandy beaches and gorgeous cliffs - will help us make Eurocon 2011 a memorable meeting of highly skilled Electrical and Electronics Engineers.

All the organizing committee team and supporting institutions (IEEE Region 8 and Portugal Section, Instituto Superior Técnico and Instituto de Telecomunicações) hope all you enjoy the Conference.

“ **WHO HAD NEVER  
IN LISBON BEEN  
HAD NEVER  
A NICER R8 SPOT SEEN** ”

## › ORGANIZATION AND TECHNICAL SPONSORS

### IEEE REGION 8 AND PORTUGAL SECTION

[www.ieee.org](http://www.ieee.org)  
[ewh.ieee.org/reg/8](http://ewh.ieee.org/reg/8)  
[www.ieee-pt.org](http://www.ieee-pt.org)



### INSTITUTO SUPERIOR TÉCNICO

[www.ist.utl.pt/en](http://www.ist.utl.pt/en)  
[www.ist.utl.pt](http://www.ist.utl.pt)



INSTITUTO  
SUPERIOR  
TÉCNICO

### INSTITUTO DE TELECOMUNICAÇÕES

[www.it.pt](http://www.it.pt)



## › CONFERENCE INFORMATION

### REGISTRATION DESK

Registration desk is located on Level 01, and is open daily from 08:30h to 17:30h, to distribute the Conference materials to all registered participants, and also for on-site registration. Printed receipts can be obtained on demand. Additional social program tickets may also be purchased there.

### INTERNET ROOM

Participants can ask for credentials to use Conference's Wi-Fi access for his own laptop computer. All conference area is covered.

### SPEAKER'S PREPARATION

Speaker's preparation room is located on level 02 at room 02.3 (please, consult the Congress Centre plant). Before each oral session, all presenters MUST upload and test their presentation files in a dedicated computer placed at the speaker's preparation room (room 02.3). Presentations should be compatible for reading in Adobe Acrobat Reader or MS PPoint. An authorized assistant will later upload these files to the correspondent session room laptop computer, as presenters cannot connect and use their personal computers for presentation. Make sure to use compatible software and check for the appropriate video codecs, before starting your session.

### POSTER SESSIONS

Poster boards are stand at the coffee break lobby, located in level 02. Poster boards are numbered. Look for the exact position of your poster in a list conveniently displayed for each session. Appropriate fixing items are available. Refrain from use your own fixing materials and specially do not use any type of tape. Make sure to display your poster soon enough before your session, and remove it just after the end of the session.





$$\text{curl } \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$$

## CONFERENCE INFORMATION

## EUROCON 2011 › INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

## SUBWAY NETWORK MAP



### Eurocon 2011 nearest subway stations



**Saldanha**, in the Yellow Line



**Alameda**, in the Green Line

## HOTEL AND DINNER ADDRESSES

### dinner restaurants

- 1 Dragão D'Ouro
- 2 Fogo de Chão
- 3 The Big Apple
- 4 Charrua do Lavrador
- 5 Costini
- 6 Osaka
- 7 Portugália

### hotels

- 8 Holiday Inn
- 9 Turim Alameda
- 10 A.S. Lisboa
- 11 Ibis Lisboa Saldanha
- 12 Zeenit Lisboa
- 13 Sheraton Lisboa
- 14 Alif





$$\text{curl } \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$$

CONFERENCE INFORMATION

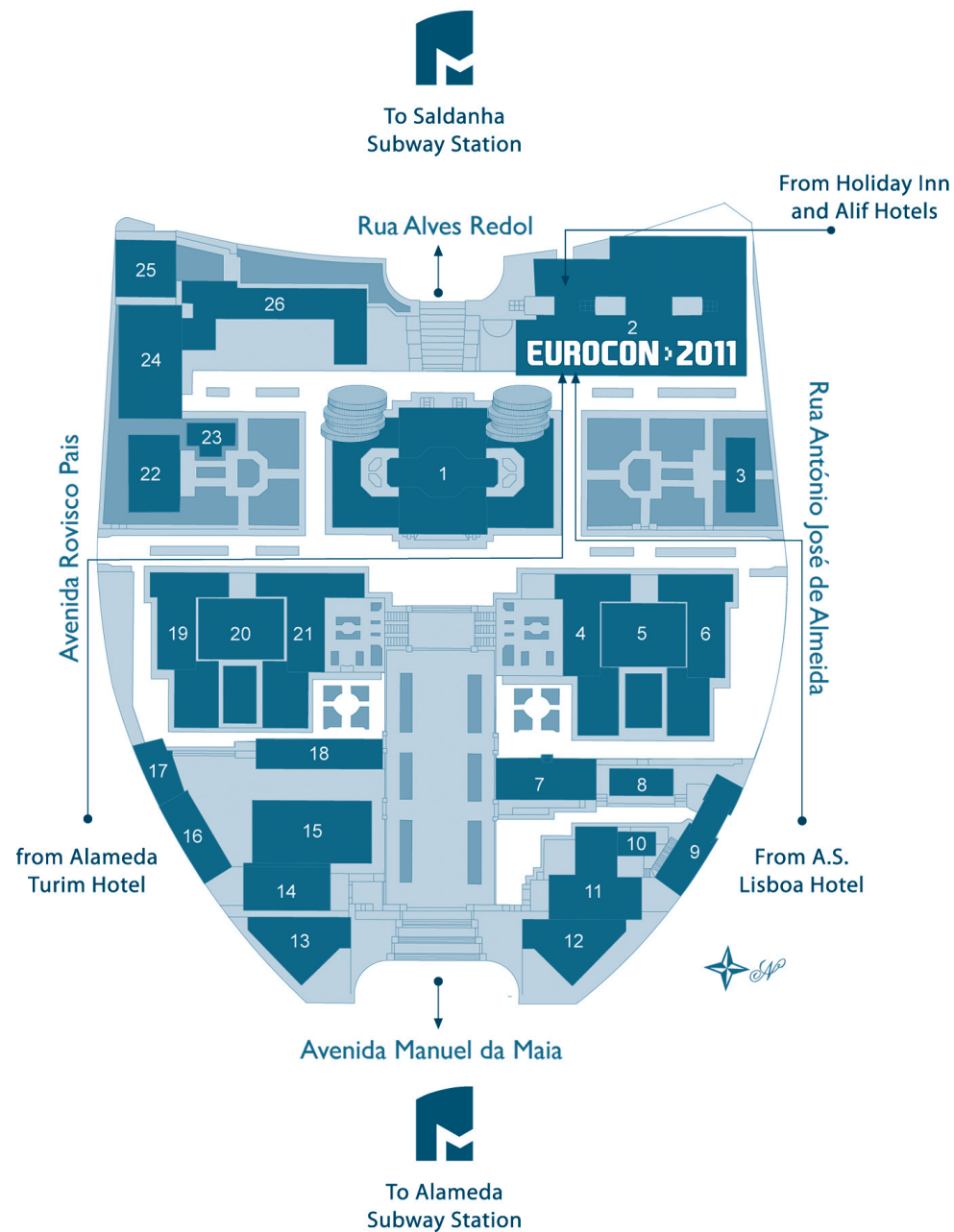
EUROCON 2011 › INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

## IST CAMPUS MAP

### legend

1. Main building
- 2. Congress centre and civil engineering**
3. North garden pavilion
4. Mechanical engineering I
5. North tower
6. Electrical engineering
7. Informatics II
8. Mechanical engineering IV
9. Informatics I
10. Informatics III
11. Mechanical engineering II
12. Mechanical engineering III
13. Canteen
14. IST student association
15. Sports courts
16. Swimming pool
17. Social assistance
18. IST Press
19. Mining engineering
20. South tower
21. Chemical engineering
22. South garden pavilion
23. Kindergarten
24. Mathematics
25. Physics
26. Multidisciplinary building

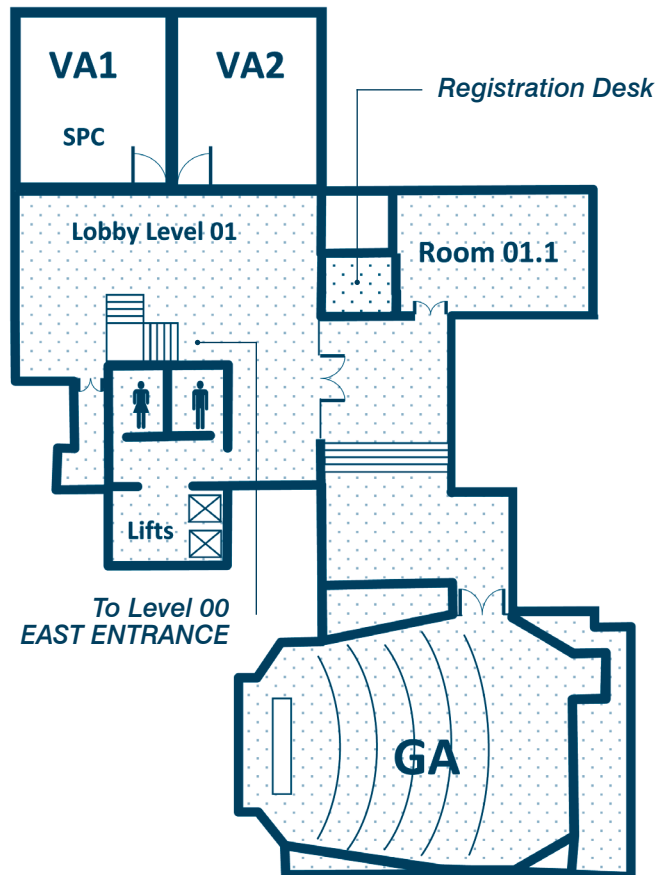
 Bank Agency



$$\text{curl } \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$$

## CONGRESS CENTRE LAYOUT

### LEVEL 01



### LEVEL 02

Conference  
WEST ENTRANCE

