



**16th EAEIE Annual Conference on
Innovations in Education for Electric and Information Engineering
Lappeenranta, Finland, June 6-8, 2005
<http://www.it.lut.fi/eaeie05/>
Abstract deadline January 31, 2005**



PROCEEDINGS OF

**16th EAEIE Annual Conference on
Innovation in Education for Electrical and Information
Engineering (EIE)**

Lappeenranta, Finland
6th-8th June 2005

Jussi Salo (editor)

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Invitation to EAEIE'2005

Welcome page	Dear Colleagues,
About the EAEIE	
Conference Aims & Objectives	The European Association for Education in Electrical and Information Engineering (EAEIE) has organised its annual conferences in 15 cities all over Europe. The conferences have brought together University teachers and researchers working in the field of electrical and information engineering (EIE), in order to exchange experiences and bring new innovations to the EIE education. European higher education institutions have accepted the challenge to construct the European area of higher education and to ensure that higher education and research systems continuously adapt to changing needs, society's demands and advances in scientific knowledge. EAEIE has actively participated in this so called Bologna process trying to create comparable curricula and to develop new tools for education.
ABSTRACTS OF PAPERS	
Authors _____	
Papers _____	
Session topics	
The venue	The Conference Organising Committee ascertains that your presence in Lappeenranta (Finland) will give event to creative and impressive experience. The following pages include a variety of information about the subject matter of the Conference, its programme, the terms and conditions of participation. We hope that this information will encourage you to take part in this significant event. The final success of the Conference depends heavily upon your active participation.
Technical programme	We hope that this Conference will provide you full insight into European progress in educational system of electrical and information engineering.
Social Programme	
Working language	
Scientific committee	On behalf of the Conference Organising Committee, we would like to invite you all to Lappeenranta.
About Lappeenranta	The Organising Committee
Travelling to Lappeenranta	
Contact us	





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About EAEIE

The [EAEIE](#) is a European non profit organization, with members of nearly seventy European Universities, most teaching in the field of Electrical and Information Engineering (EIE).

The mission of the [EAEIE](#) is to enhance education in EIE through understanding of European education practices, industry participation, continuing education, credit transfer in international exchanges, scientific and educational research, and to determine criteria to establish standards on EIE education.

Please see the [EAEIE web site](#) for details of how to join our association.



Organised by [Department of Electrical Engineering](#) and [Department of Information Technology](#)



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Conference Aims & Objectives

The objective of the Conference is to bring together lecturers, researchers and practitioners working on the field of Electrical and Information all over Europe, in order to exchange information and bring new contribution to the field of EIE education. The Conference will bring you the latest ideas and development of the educational tools directly from their inventors.

To exchange experiences and to enhance discussion the possibility for two types of presentations are provided. Each accepted paper will be presented in an oral session. In addition, we provide a possibility for a poster presentation during the poster sessions within the coffee breaks. Thus the representatives have a possibility to discuss the topics they have missed due to the parallel oral sessions.



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Session topics

Subject matter of the EAEIE Conference '2005 are as follows:

1. Education in Electrical and Information Engineering (EIE)
2. Innovation in pedagogical way of teaching
3. Application of New Technologies for Education
 - Computer Aided Learning Tools (CALT)
 - Visualisation and Interactive Teaching and Learning (VITL)
 - Use of Information and Communication Technology (ICT)
 - Didactic Innovations (DI)
 - Test our Educational and Learning Tools (TELT)
 - Protecting your Investment in Computer Aided Teaching and Learning (CATL)
4. European Curricula in EIE
5. International Partnerships in Teaching
6. Cooperation with Industry in Teaching
7. Gender Issue and Inclusivity
8. Virtual Labs Building, Architecture and Organisation



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The venue

EAEIE 05 will be held at the Lappeenranta University of Technology (LUT). The University is a national university, financed by the Ministry of Education. It specialises in technology and economics. It has more than 4900 students studying in the master degree programmes, with an annual intake of about 850. Postgraduate degrees include Licentiate in Technology, Licentiate in Economic Sciences, Doctor of Technology, Doctor of Economic Sciences and Doctor of Philosophy. There are about 450 postgraduate students. Approximately 25% of LUT students complete part of their degree studies at partner universities in Europe, the USA, Asia and Australia.



Kuva: Arto Hämäläinen
[eKarjalan Kuvapankki](#)



Kuva: Vesa Mikkonen
[eKarjalan Kuvapankki](#)

Lappeenranta is the administrative, business and cultural centre of the South Karelia region. The eleventh-largest Finnish city by number of inhabitants, Lappeenranta is a city renowned for its friendly and good-humoured people, its natural beauty, its happy Karelian character and its good prospects for the future.



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Technical Programme

Detailed Technical Programme with Presentation Allocation

[a pdf-file](#) of the Detailed Technical Programme with Presentation Allocation.

Overview of the Technical Programme

Monday, June 6th, 2005

9-10	Registration and morning coffee
10-11	Opening of the conference with two invited speakers
	Short break
11.15-12.30	Two parallel sessions.
12.30-13.30	Lunch
13.30-15.00	Two parallel sessions.
15.30-16.00	Coffee break
16.00-18.00	Two parallel sessions.
20-22	Welcome party, City of Lappeenranta

Tuesday, June 7th, 2005

8.30-9.00	Morning coffee
9.00-11.00	Two parallel sessions.
	Short break
11.15-12.30	Two parallel sessions.
12.30-13.30	Lunch
13.30-14.30	General Assembly of the EAEEIE (open to all members of the EAEEIE).
14.30-15.00	Coffee break
15.00	council meeting of the EAEEIE (open to members of the council).
19.00-22.00	Conference dinner

Wednesday, June 8th, 2005

8.30-9.00	Morning coffee
9.00-11.00	Two parallel sessions.
	Short break
11.15-12.00	Closing session with award ceremonies.
12.00-13.00	Lunch.





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Social programme

Monday 6th of June 2005

The welcome party hosted by Lappeenranta Town in the center of the Lappeenranta starting at 20.00 and ending at 22.00. All participants of the conference are welcome.

Tuesday 7th of June 2005

The conference dinner, starting at 19.00, ending at 22.00, will be arranged in the Lappeenranta Casino restaurant. It is located in the city of Lappeenranta on coastline of Lake Saimaa. All participants of the conference are welcome.



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Working language

Working language of the EAEIE 2005 Lappeenranta will be English. It will be used for presentation, discussion and printed material. Simultaneous translation will not be provided. The proceedings of the conference will be edited in form of CD-ROM and distributed to the participants during the conference.



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Scientific committee

President Olivier Bonnaud		
General secretary Maria João Martins	Treasurer Jean-Marc Thiriet Account commissioners Montse Novell Zbigniew Mrozek	
Vice-president (Academic affairs) Michael Hoffman Office composition Fanny Klett Ludwik Referowski Michel Robert	Vice-president (Industrial liaisons) Anthony E. Ward	Executivie committee (chaired by the President)
Honorary presidents Pentti Lappalainen Anselmo Seoane G�rard Villermain Lecolier		Honorary members Jean Peperstraete (2000) Antti Luukko (2000) Vito Antonio Monaco (2003) Ludwik Referowski (2003) Michel Robert (2003)
Elected members Raf Catthoor Jan Boutsen Silvia Stefanova Jaromir Hrad Vaclav Havlicek Artut Jutman Raimund Ubar Jussi Salo Juha Pohjonen Olivier Bonnaud Jean-Marc Thiriet Michael Hoffmann Fanny Klett Cyril Burkley Slaidins Ilmars Romanas Vladas Krivickas Brunonas Dekeris Saba Mylvaganam Wojciech Grega Andrzej Wac-Wlodarczyk Jorge Esteves Fernando Maciel Barbosa Jan Ligus Almudena Suarez Angel Garcia Lars Ericsson Anthony E. Ward Michael Diprose Dorin Popescu		Co-opted members Christian Eugene Tomas Zeman Hamed Yahoui Klaus Schilling Otto Roesch Gregory Zeibekakis Magnus Matthiasson Mario di Fonso Hanna Lamers Jo�o Palma Juan Carlos Burguillo Jose Vincente Benlloch Richard Seaton Oleksandr Zynovchenko



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