



European Symposium on
Intelligent Technologies,
Hybrid Systems and their
Implementation on Smart
Adaptive Systems

10 – 12 July 2003
Oulu, Finland

1st Announcement & Call for Papers

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**A form for your registration and/or announcement of a paper is attached to this Call for Papers.
If it has been lost, please contact the Conference Secretariat at**

EUNITE Service Center
c/o ELITE Foundation
Pascalstr. 69
52076 Aachen
Germany
Tel.: +49 (0)2408 6969
Fax: +49 (0)2408 94582
info@eunite.org
www.eunite.org

Introduction to eunite2003

eunite2003 is the third symposium organised by the European Network of Excellence EUNITE from 10 - 12 July 2003. The symposium will show state-of-the-art presentations as well as new developments in the so called Intelligent Technologies: **fuzzy logic, neural networks, evolutionary computation and machine learning**. The focus will be on **hybrid systems** that combine two or more of these technologies and/or address issues on **adaptivity**, preferably with special interest to solve **industrial problems**. The aim is also to investigate **Adaptive Intelligent Systems** that coordinate perception, reasoning, and action to pursue multiple goals while functioning autonomously in dynamic environments. EUNITE 2003 will have parallel sessions where experts present their newest developments and applications in different areas.

Topics of interest

include but are not limited to:

Intelligent & Hybrid Developments and Applications in

- Intelligent Control – Methodology (special interest in adaptivity issues) and Applications
- Databases and Intelligent Information Retrieval
- Smart Decision Support Systems
- Data Analysis
- Signal Processing
- Pattern Recognition
- Image Processing

Learning in:

- Complex i/o Behaviors
- Optimization and Planning
- Reasoning
- Reasoning with Uncertainty
- Performing Complex Cognitive Tasks

E-learning

- Simulators
- Web Based Simulators
- Web Based Tutorials
- Internet Teaching
- Online Exams
- Web Based Tools for Education

Artificial Systems with Adaptive behavior

- Perception and Motor Control
- Learning and Development
- Autonomous and Intelligent Robots
- Adaptive Models and Representation
- Software Agents and Virtual Creatures

Adaptive WWW based Systems

- WWW Recommender Systems
- WWW Metadata for User Modeling
- Adaptive Hypermedia Systems
- Security and Privacy Aspects of User Models on the WWW
- Intelligent WWW Agents for Personalization and Adaptivity
- Adaptive Navigation
- Personalization and Adaptivity in E-commerce
- Intelligent Tutoring Systems on the WWW

Additionally the Technical Committees of EUNITE are responsible for organising workshops on:

- Applications in Industry and Production Planning
- Applications in Traffic Control and Transportation
- Applications in Multimedia, Networking and Telecommunication
- Medicine and Biomedical Applications
- Applications Financial Engineering and Forecasting

Promoting inter-networking activities, EUNITE is aiming to co-organise sessions with other relevant communities and networks like:

- AgentLink
- Knowledge Discovery community
- ... (if you are an active member of such a network or community and wish to co-organise a session during eunite2003 please contact us)

During eunite2003 the participants will have the opportunity:

- to discuss and exchange new ideas and application experiences face to face
- to establish business or research relations with those people who are important in the area of the symposium
- to find European partners for future collaboration

Who will benefit?

- Practitioners interested in the benefits of using Intelligent Technologies like Fuzzy Logic, Neural Networks, Machine Learning and Evolutionary Computation to solve their problems
- Consultants, applied researchers and people in industry who are already running projects with intelligent technologies and want to exchange their experience in successful projects
- Researchers wanting to identify important research problems for the coming years
- Individuals wanting to keep up to date with recent developments
- Those who have recently entered this rapidly expanding field, requiring a complete perspective of the subject and its applications.

Why attend?

eunite2003 provides you with the opportunity to:

- Keep up to date with the state-of-the-art in this rapidly advancing and expanding field
- Meet consultants, researchers and people from industry to discuss possible applications of intelligent technologies
- Get to know successfully exploited technical as well as management applications of intelligent technologies in different industrial sectors
- Exchange your experiences in successful projects with other practitioners
- Make out future research problems
- Gain new perspectives on the relevance of intelligent technologies to commercial and industrial requirements, through the example of commercially-established applications
- Be part of a forum for industry and academia, and ensure improved collaboration on future developments

Committees

General Chairman: Leiviskä, Kauko; University of Oulu, Finland

Co-Chairman: Trevor Martin, University of Bristol, U.K.

Programme Committee:

Anguita, Davide; Università degli Studi di Genova, Italy
Babuska, Robert; Delft University of Technology, The Netherlands

Carlsson, Christer; Åbo Akademi University, Finland
Dounias, Georgios; University of the Aegean, Greece

Gabrys, Bogdan; University of Paisley, UK

Garibaldi, Jon; De Montfort University, UK

Jantzen, Jan; Technical University of Denmark, Denmark

Juuso, Esko; University of Oulu, Finland

Kaymak, Uzay; Erasmus University Rotterdam, The Netherlands

Kollias, Stefanos, National Technical University of Athens, Greece

Leiviskä, Kauko; University of Oulu, Finland

Linkens, Derek Arthur; University of Sheffield, UK

Martin, Trevor, University of Bristol, U.K.

Nauck, Detlef; BTEXACT, Uni UK

Sinczak, Peter, Technical University of Kosice, Slovakia

Strackeljan, Jens; Technische Universität Clausthal, Germany

Thuillard, Marc; BELIMO Automation AG, Switzerland

Organization Committee:

Chairman:

Lieven, Karl; EUNITE Administrator, Germany

Members:

Lieven, Sabine; EUNITE Service Center, Germany

Eva-Maria Lenart; EUNITE Service Center, Germany

Conference Secretariat:

EUNITE Service Center

c/o ELITE Foundation

Pascalstr. 69, 52076 Aachen

Germany

Tel.: +49 (0)2408 6969

Fax: +49 (0)2408 9458-199

info@eunite.org

www.eunite.org

Call for Papers

Authors are invited to submit papers including clear concluding remarks. After acceptance for presentation the papers will be published in the proceedings on CD-ROM.

Proposals for sessions/workshops are welcome. Persons interested in organising a session/workshop should contact the organiser as soon as possible.

We intend to publish

- the papers on CD-ROM and additionally
- a booklet containing abstracts (max. 1 DIN A4 page) of the papers.

Instructions for Authors

Please visit http://www.eunite.org/eunite/events/eunite2003/Paper_submission.htm for easy submission via internet!

If you have no internet access, please follow the instructions below:

1. The papers and abstracts should be prepared in the following format:

▪ Paper for the CD-ROM

We prefer that the paper (including all figures) will be saved in Microsoft Word for PC or PDF format. A template file in Word 97 for PC with instructions for authors can be downloaded on <http://www.eunite.org/eunite/servicecenter/forms/instructions.zip>

▪ One-page extended abstract for the booklet

The abstract should be saved in Microsoft Word for PC or ASCII-format and it shall not contain any illustrations, figures, or graphics nor any special characters. A template file in Word 97 for PC with instructions for authors can be downloaded on <http://www.eunite.org/eunite/servicecenter/forms/instructions.zip>

2. The papers and abstracts should be saved on the following FTP Server:

- Server Name: ftp.mitgmbh.de
- User name: eunite
- Password: Available at the Service Center, please contact Eva-Maria.Lenart@eunite.org or call +49 (0)2408 6969
- Directory: /eunite
- Name of the files: Papers: P_AuthorName.fileformat (e.g. P_Smith.doc, P_Jones.ps etc.)
- Abstracts: A_AuthorName.fileformat (e.g. A_Smith.doc, A_Jones.ps etc.)

3. In an accompanying email to eunite2003@eunite.org, authors should specify:

- Name of the corresponding author and address
- Name of the file saved on the FTP Server
- Title of the paper
- Software (name and version) and type of computer used
- the first two choices from the topics of interest as given on page 4 of this call for papers, under which the paper can be classified.

If the files are corrupted we will try to get in contact in order to find a solution. Submitted papers will be reviewed, and all accepted papers will be published on CD-ROM. The abstracts will be published in a booklet. Each participant will receive the CD-ROM and the booklet with the abstracts. A copy of the proceedings will be given to each participant at the conference. After the conference, the proceedings will be available from ELITE. Submission and acceptance of a paper commits one of the authors to present the paper. The paper will be omitted from the proceedings, if the registration fee is not received by 31 May 2003.

Dates and deadlines

15 March 2003	Deadline for the submission of the full paper and the one-page extended abstract
15 April 2003	Confirmation of acceptance
30 April 2003	Deadline for early registration
15 May 2003	Deadline for submission of revised papers and abstracts
10 - 12 July 2003	Symposium

General Information

Language

All papers at the symposium will be presented in English. Simultaneous translation will not be available.

Conference Secretariat

Before and after the Conference: For any questions before or after the symposium, please contact: eunite 2002 Conference Secretariat, c/o ELITE Foundation, Pascalstr. 69, 52076 Aachen, Germany, Phone: +49 (0)2408 6969, Fax: +49 (0)2408 94582, email: info@eunite.org

During the Conference:

From July 10 – 12, 2003 the secretariat will be located at the conference site.

Members of the secretariat will try to support participants with all kinds of information and organisational help.

Venue

Hotel Restaurant Lasaretti
Kasarmintie 13, 90100 Oulu, FINLAND
Tel. +358 8 884 8300, Fax +358 8 884 8301
lasaretti@merikoski.fi
http://www.merikoski.fi/lasaretti_eng/

Registration

A form for announcing a paper and for your registration is attached to this programme. If it has been lost, please visit **www.eunite.org** for your online registration or contact the conference secretariat.

The registration includes:

- access to the sessions
- one copy of the proceedings on CD-ROM
- one copy of the booklet containing the abstracts
- coffee during breaks
- lunch during the conference

Registration Fees

	Early Registration until and including 30 April 2003	Late Registration after 1 May 2003
Participants	Industry Rate: Euro 250.- University Rate: Euro 200.-	Industry Rate: Euro 300.- University Rate: Euro 250.-
Members of EUNITE* and Speakers**	Industry Rate: Euro 200.- University Rate: Euro 150.-	Industry Rate: Euro 250.- University Rate: Euro 200.-
Undergraduate Students	Euro 100.-	Euro 100.-

* This is valid for all **Nodes** of the Network, who have submitted the necessary information by 31 March 2003.

**Speakers who have an accepted contribution can participate in the symposium at the condition of EUNITE-Members.

Method of Payment

Delegates are requested to pay their registration fee in advance

- by **bank transfer** to the following account:

Commerzbank Aachen
Account No.: 12 12 703
Bank Code: 390 400 13
S.W.I.F.T.-Code: COBADEFF390

- by **credit card** (Eurocard/Mastercard, VISA or American Express) (3% charges will be added)
- or by sending a **cheque** in € to the conference secretariat.

Please note:

Bank transfers must be made 'free of charge for the beneficiary' (net of bank charges and commission). All bank charges or commissions reducing the amount will have to be paid in cash when registering. To avoid any confusion, participants are requested to indicate clearly their names and addresses on transfer orders and cheques. For early registrations the payments have to be received by 30 April 2003.

Cancellation Policy

If a participation is cancelled until 4 weeks before the conference, an administration fee of Euro 50.- has to be paid. In case of a later cancellation the full registration fee has to be paid.

Accommodation

We offer you to book your accommodation in Hotel Lasaretti, where the symposium will take place.

Hotel Restaurant Lasaretti
Kasarmintie 13, 90100 Oulu, FINLAND
Tel. +358 8 884 8300, Fax +358 8 884 8301
lasaretti@merikoski.fi
http://www.merikoski.fi/lasaretti_eng/



All rooms in Hotel Lasaretti have air-conditioning, shower, toilet, hair-dryer, towels, television, telephone and minibar - some even telecommunications connections. There is also a laundry room, with ironing facilities, available to guests free of charge. Hotel guests can use the sauna every day, and there is also a swimming pool in the sauna section. Our other sauna with a cabinet is also available if booked in advance. The island of Lasaretinsaari is part of an idyllic park situated at the mouth of the River Oulujoki, an area that also houses the Museum of Northern Ostrobothnia, City Art Gallery and Hupisaaret Open-Air Theatre. Science Centre Tietomaa also lies nearby.

Single room: 75 €.- per room and night incl. breakfast
Double room: 95 €.- per room and night incl. breakfast

Important information: As the number of rooms in the hotel is limited, we cannot guarantee your accommodation and recommend early registration. All the registrations will be treated in the order of their receipt. If you like to book a double room, please let us know with whom you would like to share it (accompanying person or one of the participants).

Other Hotels

For information on additional hotels please have a look at <http://www.ouka.fi/matkailu/english/hotellit-frame.html>.

Information about the conference site

The city of Oulu was founded by the order of Kaarle IX at the mouth of the Oulu River in 1605. Oulu, which is located on the shore of the Gulf of Bothnia, has been the province's capital since 1776. Oulu has the sixth largest population amongst Finnish towns. In January 2002 the city had 123 274 inhabitants. The area of Oulu is 411,1 square kilometres.

Oulu is considered northern Europe's most significant centre of competence. A significant amount of high technology ability has been concentrated in the area. The city, which is the largest employer in the region, employs over 8,000 people. The inhabitants are provided with high level health and children's day care services. Oulu has also almost 100 different teaching establishments. The most significant of these is Oulu University (<http://www oulu.fi/english/>) which was founded in 1958.

The history of the internationalization of the city of Oulu began as early as 1605 with the founding of the city. After the trading embargo in the Gulf of Bothnia was removed, trade became free and the sailing fleet of Oulu grew in the 1860's to be largest in Finland. Back then the most important exports from Oulu were furs, salmon and later also tar, which was used throughout the world to protect wooden ships. Today the basic idea behind the city's international activities is to develop Oulu into the leading centre of competence for the entire north of Europe. The "tar" of the city of Oulu today, is internationally competitive high level know-how and ability.

Oulu has Finland's second largest university and many public and private research institutes. The region is well known for its rapidly growing high technology industry which sells its products throughout the world. The city is thus also an international growth centre.

Oulu is located on the Northern part of the Baltic Sea with good communication links to the largest European centres and its airport is the second busiest in Finland. This means that the city is a natural gateway to the Euroarctic Barents region. The strong and well developed infrastructure of Oulu offers flexible links both to Europe and to the Northern regions of North-West Russia.

Finland's decision to become a member of the European Union in 1994 was significant, both for Finland and for Oulu. To some extent membership has meant adaptation to supranational decision making and to common markets which offer Finnish industry growing production and export possibilities. Over the centuries the operating environment in Oulu has changed but the basic situation has changed only slightly. The city has always been, and remains, a gateway to the North between East and West.

For further information please have a look at www.oulutourism.fi.

How to get to the conference site and transportation in Oulu

Getting to Oulu is quite simple. With an airport on the edge of town and a train station in the city centre, Oulu is well connected to the rest of Finland and indeed the world. Once in Oulu, there are taxis and an extensive bus network.

Air Transportation

Oulunsalo Airport, Tel. 8807950.

For timetables and other information on airlines check out:

Finnair www.finnair.com

SAS www.scandinavian.net/

Rail Transportation

Finnish State Railways (Valtion rautatiet, VR), www.vr.fi/e-index.htm

Oulu Railway Station, Rautatienkatu 11

Local Buses

Koskilinjat Oy, (www.koskilinjat.fi/in_english/)

You can buy a single ticket on the bus. Tickets are also sold in various kiosks around the city.

Long Distance buses

Bus Station (Matkahuolto Oy), Raksila, Tel. 0200-4000.

www.matkahuolto.fi/english/

www.expressbus.com

Taxis

There are taxi ranks all around the city centre. You can find one, for example, at the railway station and bus station. You can also call a taxi to pick you up from your hotel. Tel. 10 041 or 0100-4181 when you call from a mobile phone.

Port of Oulu

Information about the ports of Oulu and general shipping can be found at the Port of Oulu web site

<http://www.ouluport.com>

Conference Secretariat and EUNITE Service Center

For further information please visit www.eunite.org or contact the Service Center at

Conference Secretariat
EUNITE Service Center
c/o ELITE Foundation
Pascalstr. 69
52076 Aachen
Germany
Tel.: +49 (0)2408 6969
Fax: +49 (0)2408 94582
info@eunite.org
www.eunite.org



Registration Form

Telefax: +49 2408 94582

If you want to announce the submission of a paper, be kept informed or register, please return this form to:
EUNITE Service Center, c/o ELITE Foundation, Pascalstr. 69, 52076 Aachen, Germany

Please keep me informed about eunite 2003

I will submit a paper entitled: _____

I propose to organize the following session: _____

A: I register for the Symposium:

Early Registration until and including 30 April 2003

Late Registration After 1 May 2003

Participants

- Industry Rate: Euro 250.-
 University Rate: Euro 200.-

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 University Rate: Euro 200.-

Members of EUNITE* and Speakers*

- Industry Rate: Euro 200.-
 University Rate: Euro 150.-

- Industry Rate: Euro 200.-
 University Rate: Euro 150.-

Undergraduate Students

- Euro 100.-

- Euro 100.-

* This is valid for all **Nodes** of the Network, who have submitted the necessary information by 31 March 2003.

**Speakers who have an accepted contribution can participate in the symposium at the condition of EUNITE-Members.

B: Accommodation in the Hotel Lasaretti:

Date of arrival: _____ Date of departure: _____ Time of arrival: _____

- Single Room (75 €.- per night incl. breakfast)
 Double Room (95€.- per night incl. breakfast) shared with _____

Method of payment (we will send you an official invoice on receipt of your registration)

I pay the amount of EUR _____ (Registration Fee + Accommodation)

by cheque bank transfer Mastercard/Eurocard VISA American Express

Cardholder's name: _____ Credit Card Number: _____

Card Expiration date: _____ Cardholder's Signature: _____

Bank transfers must be made 'free of charge for the beneficiary' (net of bank charges and commission). All bank charges or commissions reducing the amount will have to be paid in cash when registering. If you pay by credit card, 3% charges will be added to the total amount. To avoid any confusion, participants are requested to indicate clearly their names and addresses on transfer orders and cheques.

Title	First Name	Name
Organisation/Company	Department	
Street	ZIP Code/Town	Country
Phone	Fax	E-Mail
Date/Place	Signature/Stamp	