



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

19 - 21 September 2002
Albufeira, Portugal

Invitation Programme – General Information

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A form for your registration is attached to this Invitation programme. 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 eunite2002

eunite2002 is the second symposium organised by the European Network of Excellence EUNITE from 19 -21 September 2002. 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 2002 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 eunite2002 please contact us)

During eunite2002 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?

eunite2002 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

Programme Committee:

Adlassnig, Klaus-Peter; University of Vienna, Austria
 Anguita, Davide; Università degli Studi di Genova, Italy
 Azvine, Ben; BTEXACT, UK
 Babuska, Robert; Delft University of Technology, The Netherlands
 Carlsson, Christer; Abo Akademi University, Finland
 Gabrys, Bogdan; University of Paisley, UK
 Garibaldi, Jon, De Montfort University, UK
 Hernandez, Josefa; University of Madrid, Spain
 Jantzen, Jan; Technical University of Denmark, Denmark

Juuso, Esko; University of Oulu, Finland
 Kaymak, Uzay; Erasmus University Rotterdam, The Netherlands
 Leiviskä, Kauko; University of Oulu, Finland
 Linkens, Derek Arthur; University of Sheffield, UK
 Nauck, Detlef; BTEXACT, Uni UK
 Niittymäki, Jarkko; Helsinki University of Technology, Finland
 Pitsillides, Andreas; University of Cyprus, Greece
 Strackeljan, Jens; Technische Universität Clausthal, Germany
 Thuillard, Marc; BELIMO Automation AG, Switzerland

Organization Committee:

Chairman:

Lieven, Karl; EUNITE Administrator, Germany

Members:

Faust, Sabina; EUNITE Service Center, Germany
 Lieven, Sabine; EUNITE Service Center, Germany
 Tselentis, Georgios; EUNITE Service Center, Germany

Conference Secretariat:

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 info@eunite.org
 www.eunite.org

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 September 19-21, 2002 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.

Dates and deadlines

15 July 2002 Deadline for early registration

31 July 2002 Deadline for submission of revised papers and abstracts

19-21 September 2002 Symposium

Venue

Falesia Hotel Albufeira
Pinhal do Concelho, Apart.785, Praia da Falesia
8200-911 Albufeira, Algarve
Portugal
Phone: +351 289 50 12 37
Fax: +351 289 50 12 70
http://www.falesia.com/main_uk.htm

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 15 July 2002	Late Registration after 15 July 2002
Participants	Industry Rate: Euro 200.- University Rate: Euro 150.-	Industry Rate: Euro 250.- University Rate: Euro 200.-
Members of EUNITE* and Speakers**	Industry Rate: Euro 150.- University Rate: Euro 100.-	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 30 April 2002.

**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 July 15, 2002.

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 FALÉSIA HOTEL, where the symposium will take place. We have received an option for the period from 18-22 September 2002. If your date(s) of arrival and/or departure are not in the period mentioned before, we will first have to check if accommodation is available.

Situated in the pineforest close to Albufeira, this modern hotel offers excellent facilities and is within easy reach of Pine Cliffs golf course. Each of the 169 rooms has air-conditioning, balcony, satellite TV, hairdryer and radio. The Falésia beach is just a 450 metre walk away and is served by a daily courtesy bus.

The hotel offers excellent sports facilities including indoor and outdoor swimming pools, tennis courts, table tennis, and a games room. The hotel also offers a babysitting service, laundry, sauna, jacuzzi and massage. For further details please see http://www.falesia.com/hotel_uk.html. There are also many more attractions within easy reach of the hotel such as watersports, horse riding, the Loulé Castle and Estoi Palace.

Single room: € 75.- per room and night incl. breakfast
Double room: € 90.- 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 the website of the tourist association of Albufeira at <http://www.cm-albufeira.pt/>.

Social Programme

Reception

19 September 2002, 18:30 h

Nothing is easier than to get to know each other while having a drink! Therefore, everyone is welcome to meet the other participants and the organisers at the reception. Participation is free of charge.

Information about the conference site

The **Algarve**, the southern coastal region of Portugal is a popular tourist centre, being chosen as a holiday destination both by foreigners and the portuguese themselves. A warm climate throughout the year, a coastline of splendid beaches bathed by the Mediterranean and all types of accommodations and diversions for visitors account for this, but you can still avoid the crowds and visit picturesque fishing villages or the ranges of hills in the inland, with its rural way of live and wild vegetation.

Located in the center of the **Algarve** in Portugal's southernmost region, **Albufeira** is the seat of the county and belongs to the administrative district of Faro which is located 39 km away. Amounting to an area of 14,800 hectares, and with a population of approximately 40,000 residents, this county is divided into five parishes: Albufeira, Ferreiras, Guia, Olhos d'Água and Paderne. The cliff-lined coast is punctuated with beaches of a Mediterranean climate. The summers are hot and the winters are mild with limited rainfall mainly between the months of October through March, giving an average yearly temperature of 17.5°C. Albufeira is acknowledged as one of the main tourist regions of the country. Once a peaceful fishing village, it keeps its narrow streets in the old town and whitewashed houses perched over a charming beach where you can walk amidst colourful fishing boats ornamented with eyes, animals and stars. A picturesque drive is leaving Albufeira and visiting the village of Alte, perched on a hill and with its 16th century church of Nossa Senhora da Assunção and the beautiful decorated tiles of the chapel of São Sebastião. Albufeira has everything for a marvellous stay in order for you to enjoy its golden beaches and clear, warm waters, or else just relax or rest or look for adventure. It



has 23 beaches for you to choose from covering 30 km of coast. Look for the blue flags posted on the beaches which signify pure ocean water. If you are looking for more restful activities you may enjoy one of the many boat rides which are available and witness the spectacular wonders of the Albufeira coast seen from the ocean. On the other hand, if you want to take advantage of your holiday to keep in shape, nothing better than to go to the beach and enjoy some thrilling moments while fishing on the high sea, practicing windsurfing, diving, sailing or jet-skiing. A good opportunity for fun and relaxation will be found at the ZOOMARINE where you may examine various species of marine mammals, fish and aquatic birds on display. The aquariums are excellent replicas of the beautiful and modern aquariums found in all World Tourism Centers. On exhibition you may find dolphins, seals, marine lions, sharks, crocodiles, turtles, ducks, flamingos, parrots and cockatoos which are meticulously cared for and displayed in very natural surroundings. This oceanographic center has concentrated on providing visitors with moments and activities of relaxation, education and scientific investigation, being an Albufeira and Algarve symbol, it is definitely worth a visit. For further information please have a look at the website of the tourist association of Albufeira at <http://www.cm-albufeira.pt/> or at <http://viajar.clix.pt>.

How to reach the conference site

Faro Airport (<http://www.ana-aeroportos.pt/eng/>) is 6 km away from Faro and 39 km from Albufeira. Passengers arriving at Faro Airport, bound for any point in the Algarve and in need of a means of transportation, can do the following:

- Catch a taxi right outside the Terminal.
- Catch a bus to Faro. Several town busses operate between Faro Airport and various points in downtown Faro. There is also a free service from 1 June to 31 October, except tuesdays, on submission of a plane ticket (every hour from 08:00 am to 20:00 pm, but please check the timetable posted near the Information Desk, at the Meeting Point).
- From Faro you can take a train to Albufeira (duration between 25 and 40 minutes). The homepage of the Portuguese Railways is <http://www.cp.pt>
- Rent a car. Car rental counters are located in the Airport's arrival area. For further information contact the Information Service at the Meeting Point.

Conference Secretariat and EUNITE Service Center

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



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