

Application-Specific Multi-Processor SoC

SUMMER SCHOOL

9 - 13 July 2001, Hotel Le Manoir, Aix-les-Bains, France

Sponsored by **IEEE Circuits & Systems Society** and **EDAA**

Organized by **Ahmed A. Jerraya, TIMA Laboratory, Grenoble, France**

and **Wayne H. Wolf, Princeton University, Princeton, USA**

FOCUS

The principal objective of this course is to study the emerging areas of Application-Specific Multi-Processor System On Chip. The main idea is to gather key R & D people from the different domains required to master this new kind of systems where designers have to integrate more than one instruction set processor on a single chip, these may include DSPs and microcontrollers. Typical applications are wireless, image processing, XDSL, networking processors and game computers. Four main problems make the design of application-specific Multi-Processor System On Chip very hard and expensive:

- system architecture with an on-chip communication network
- software targeting and executive code generation using (or not) an Operating System (OS)
- system validation at the functional level and the cycle-accurate level where multiple ISSs may be required
- testing the overall system.

CONTENTS

The 5-day course is organized as a set of 9 half-day sessions including, each, a tutorial that gives a comprehensive presentation of a specific area. The sessions will also include invited talks describing state-of-the-arts research in academia and advanced practices

from industry:

Session 1: EMBEDDED SYSTEM SPECIFICATION

- Ahmed Jerraya, TIMA Laboratory, France
- Wolfgang Rosenstiel, University of Tuebingen & FZI, Germany

Session 2: MULTI-PROCESSOR SoC

- Kees Vissers, TriMedia Technologies Inc., USA
- Peter Pirsch, University of Hannover, Germany
- Giovanni De Micheli, Stanford University, USA

Session 3: SYSTEM-LEVEL ARCHITECTURE

- Trevor Mudge, The University of Michigan, USA
- Rolf Ernst, University of Braunschweig, Germany
- Bob Rau, Hewlett-Packard Laboratories, USA

Session 4: RTOS FOR EMBEDDED SYSTEMS

- Ivo Bolsens, IMEC, Belgium
- Eric Verhulst, CEO, Eonic Systems, Belgium

Session 5: RTOS FOR EMBEDDED SYSTEMS

- Miodrag Potkonjac, University of California, Los Angeles, USA

- Takada Hiroaki, Toyohashi Univ. of Technology, Japan

Session 6: EMBEDDED RT-SW

- Pierre G. Paulin, STMicroelectronics, Canada
- Faraydon Karim, STMicroelectronics, USA
- Krishna Palem, New York University, USA

Session 7: EMBEDDED RT-SW

- Wayne Wolf, Princeton University, USA
- Oz Levia, Improv Systems Inc., USA
- Luciano Lavagno, University of Udine, Italy

Session 8: SYSTEM-LEVEL ARCHITECTURE

- Philip Koopman, Carnegie Mellon University, USA
- Jef Van Meerbergen, Philips, The Netherlands
- Mark Genoe, Alcatel, Belgium

Session 9: SYSTEM-ON-CHIP VALIDATION & TEST

- Yervant Zorian, LogicVision, USA
- Santanu Dutta, Philips Semiconductors, USA
- Sujit Dey, University of California, San Diego, USA

REGISTRATION ACCOMMODATION, VENUE, and FURTHER INFORMATION

All information is available via www: <http://tima.imag.fr/MPSOC>

You may also contact: Dr. Ahmed A. Jerraya

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Fax: +33 476 47 38 14

Phone: +33 476 57 48 64

Email: Ahmed.Jerraya@imag.fr

Application-Specific Multi-Processor SoC Summer School

Registration & Hotel Reservation form

REGISTRATION

To be completed in block letters & returned **before May 15, 2001** to:

*MP-SoC Summer School (Attn: Sonja Amadou)
TIMA Laboratory, 46 Avenue Félix Viallet
38031 GRENOBLE CEDEX, France
Fax: +33-476-47-38-14 Phone: +33-476-57-48-64
Email: Sonja.Amadou@imag.fr*

Family Name:
First Name:
Organization:
Address:
.....
Country:
Phone:
Fax:
E-Mail:

The fee covers accommodation, full board including three meals, refreshments and the use of hotel facilities for the 5 days. Students can benefit from a reduced fee with accommodation in a double room. The attendance will be limited to 55 persons. It is necessary to register in advance. Registration will be handled on a first-come-first-served basis.

Please register me for the MP-SOC Summer School:

- Regular registration fee 9500 FRF
 IEEE/EDAA members reduced registration fee 8000 FRF
 Reduced registration fee 5500 FRF (please join copy of student card)

There are 2 ways to pay the registration fee (tick one):

payment by Cheque or Bank Transfer to:

Madame l'Agent Comptable Secondaire du CNRS
Délégation Alpes, CNRS, 25 Avenue des Martyrs,
BP 166X, 38042 GRENOBLE CEDEX, FRANCE

Bank Account Number:

Tresor Public Grenoble 10071-38000-00003000056-07,
mentioning MPSOC/910706

**by VISAcard/ Mastercard/ Eurocard/Diners/
American Express (SA UNIVAL):**

I authorize the charge of FRF

Credit Card Number:

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Expiry Date:

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Date/ Signature:

Name of Card holder:

VENUE & ACCOMMODATION

The location of the course is the **Hotel LE MANOIR**, located in the heart of Aix-les-Bains, France.

Transportation

* By plane

Aix-les-Bains is 65 min. by car and 80 min. by shuttle from Lyon-Saint-Exupéry international airport. The airport of Lyon provides direct flights to 30 French cities, 16 European cities, 14 African cities and to New York. Aix-les-Bains is 60 minutes from Geneva-Cointrin international airport.

* By road

Aix-les-Bains is conveniently reached by the Chambéry-Geneva motorway A41 and the Lyon-Turin axis A43.

* By rail

It takes 3 hours to come from Paris on the high-speed direct link (TGV-Train à Grande Vitesse).

Hotel reservation

2 blocks of rooms have been reserved in **Le Manoir** and its annexe **l'Agora**

HOTEL LE MANOIR

37 Rue Georges 1er., 73100 AIX LES BAINS

Tél : (33) (0)4.79.61.44.00 - Fax : (33) (0)4.79.35.67.67

For the room reservation, please provide following details:

Date of arrival:

Date of departure:

Special requests (vegetarian, non smoking, ...):
.....

In case you want to stay longer than the period foreseen by the Summer School package (from 8th July evening till 13th July afternoon) as well as for attendees who wish to bring their family with them, we will make the reservation on your behalf. An extra day costs 700 FRF/person for course attendees. The extra cost for accompanying persons sharing your room amounts to 500 FRF/day/person - free for children under 3.

Number of accompanying persons :

Adults:

Children:

Children under 3:

All extra hotel expenses have to be paid on-site. No reservation can be made without valid credit card information and signature. You will receive a confirmation along with all necessary details. All cancellations must be made in writing. Cancellations may induce expenses due to administrative handling.

Credit Card Number:

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Expiry Date:

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