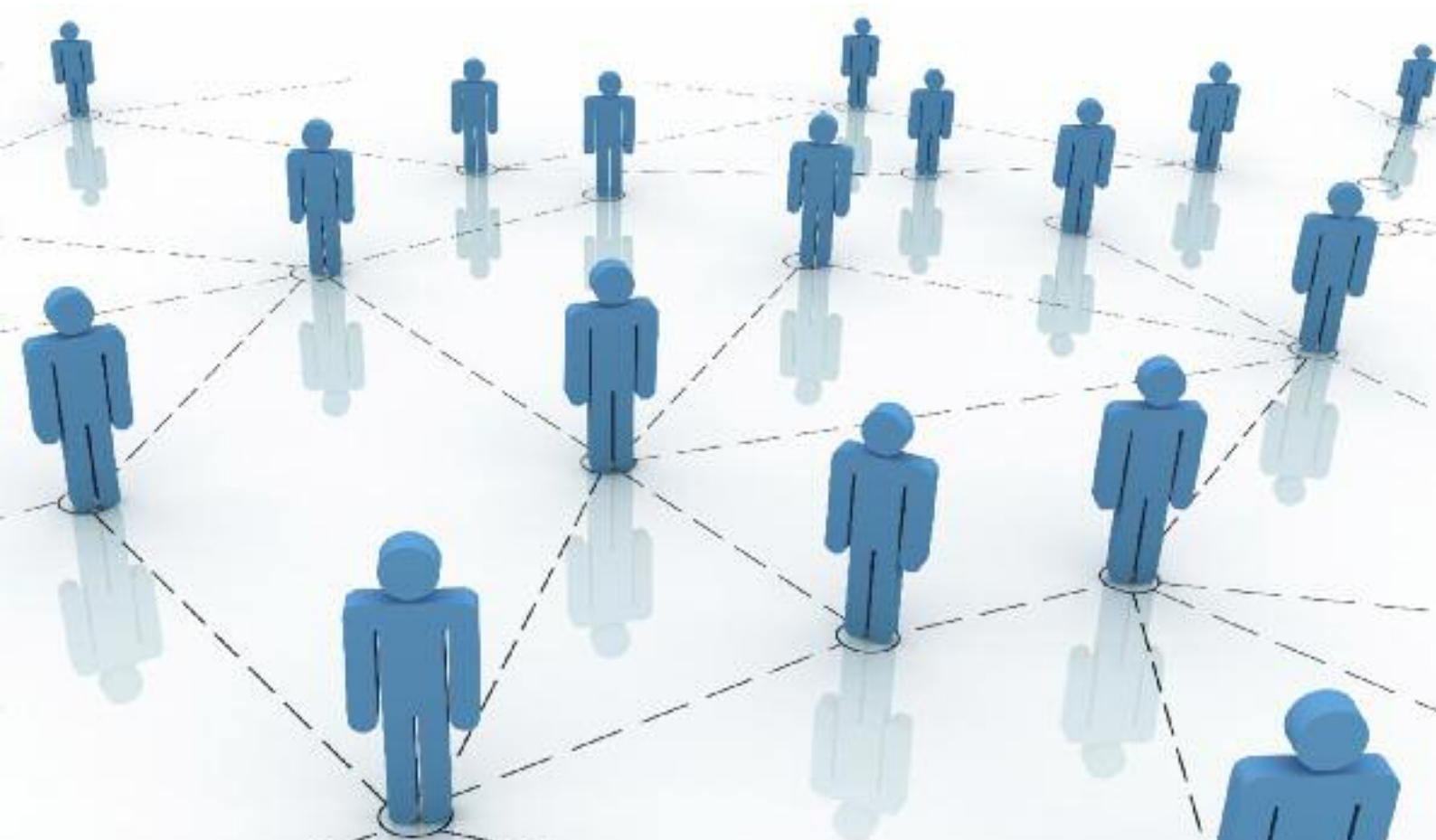


Strategies for Embedded Computing Research

International policy conference
Vienna, March 18 - March 19, 2010



The enormous success of embedded computing has stimulated new research policies and programmes in this thriving area of information technology world-wide. The economic significance of embedded systems is as undoubted as the scientific challenges ahead of us.

The purpose of this conference is to better understand current directions in the field of embedded systems research at a policy level. The conference brings together researchers with strategic decision makers in Embedded Computing, policy makers and RTD managers.

But where exactly is the field going? What are the major challenges that improved policies need to address? What are the trends in recent programmes and what are current opportunities not to be missed by Embedded Computing Research? These are the topics of the conference on "Strategies for Networked Embedded Computing Research".



Existing and planned national initiatives are of particular interest for strategic decision making in the field. These initiatives need to be put in a global context and discussed in relation to other European developments. This conference should mark the starting point for an improved mutual understanding and co-operation of national ES research initiatives.

Chairmen

José COTTA
Head of Unit Embedded Systems and Control, European Commission

Michael Wiesmueller
Austrian Federal Ministry for Transport, Innovation and Technology

Supported by

co-sponsored by the European Commission,
the Austrian Federal Ministry of Transport, Innovation and Technology
ARTEMIS Austria
and the COSINE2 project.

Hosted by

eutema Technology Management GmbH.
The conference is organised in co-operation with ARCADIA, ARTEMISIA.



www.cosine-ist.org

Everyware – Towards Systems of Embedded Systems

New challenges and trends in Embedded Technology

Design Challenges for Cyber Physical Systems
Edward A. Lee, University of California, Berkeley

Towards Systems of (Embedded) Systems
Tom Henzinger, ISTA

Dependable Systems of Systems
Hermann Kopetz, TU Vienna

Embedded Systems: Critical Technology for Systems of Systems,
Michael Winokur, Israel Aerospace Industries

Embedded Support for Policy Makers

Effects of Embedded Technologies in Economy and Society

*Embedded Recovery: Fostering Economic Dynamics by Embedded Technologies
Embedding Assistance and Support for Life*

Energy Efficient Buildings
eDIANA (*)

Factories of the Future
Prof. Andreas Kugi

The Full Electrical Vehicle as Device / Source of the Internet of Energy: V2G+I
Pietro Perlo, FIAT – CRF

Positions and Challenges for EU and National Strategies

ARTEMIS as an industry strategy ... for the next decade?
Giovanni Barontini

Strategies for ES Research: Experiences and Trends

Centres of Innovation (*)
José Cotta, European Commission
Aligning Research Agendas, Sergio Bandinelli, ARCADIA
Rudolf Hagenmüller, ITEA2
The impact of ARTEMIS on national programmes, Erich Prem
ProSE: Standardization in Embedded Systems, Laila Gide

International Practices and Co-operation in Embedded Research

Embedded Systems in Brazil (*)

Australia's Experience
David Skellern, National ICT Australia

H. Gill, U.S. National Science Foundation (*)

Embedded Systems Innovation for SME Clusters in Ireland
K. Delaney

Korea's R&D policy environment
Johng-Ihl Lee

(*) to be confirmed

Strategies for Embedded Computing Research

International conference on Embedded Systems Research Policies and Programmes

March 18 - March 19, 2010

Palais Strudlhof
Strudlhofgasse 10
A 1090 Vienna



Registration information

Registration deadline: March 5, 2010

Please send your registration details by email to Mr. Bruno Woeran, eutema Technology Management, woeran@eutema.com, Tel. +43 1 5245316 or fax to +43 1 5245396.

Participant

First name:
Last name:
Telephone number:
Email:

Invoice recipient

Organisation:
Name (if different from above):
Address:
Telephone number:
Email:
VAT number:

The registration fee of EUR 276,- must be transferred to the following account. The registration fee includes 20% VAT, all coffee breaks, lunches and the conference dinner.

Bank: easybank AG Vienna
Branch address: Quellenstrasse 51-55, A-1100 Vienna, Austria
IBAN: AT 381420020010319570
BIC: EASYATW1
Account Holder: eutema Technology Management GmbH
Account Nr.: 20010319570
Payment reference: ES Conference Vienna

Hotel information: A limited number of rooms has been reserved in the conference hotel.

For any further questions, please do not hesitate to contact Mr. Woeran.

Speakers

Sergio Bandinelli is R&D Projects Area Director at the European Software Institute. Since 1995 he has managed and participated in development and technology transfer projects regarding process improvement, with specific emphasis in component-based development, reuse management, architecture modelling and systems integration. Bandinelli has an extensive research record, having lead and taken part in many European projects.

Giovanni Barontini is Vice President, Civil Products at Finmeccanica Spa. He received the Laurea in Electronics Engineering from La Sapienza University in Rome in 1976 and a Master in Business Administration from the American University in Washington in 1984. Before joining Finmeccanica in 2003, he was with Telecom Italia.

Kieran Delaney is the Manager of the Technologies for Embedded Computing (TEC) Centre at the Cork Institute of Technology. Formed in 2006, the Centre drives industry-led research and technology-transfer programmes for new and established companies in the domain of next generation embedded software and hardware computing technologies.

Rudolf Hagenmüller is Chairman of ITEA 2. He was appointed Professor for Informatics and Mathematics in 1995. After working at Siemens, he became managing director of FAST in 1994. This "Research Institute for Applied Software Technology" was jointly founded by Siemens, BMW and Bayerische Landesbank. In 2008 FAST became Cirquent GmbH where he is now a Member of the Executive Board. He is a member of the IST Advisory Group to the European Commission and of the Board of Directors of the Development Gateway Foundation, Washington, USA.

Tom Henzinger is the President of the new Institute for Science and Technology Austria and professor for Computer Science and EPFL, Lausanne, Switzerland, and Adjunct Professor of Electrical Engineering and Computer Sciences at the University of California, Berkeley. He received his Ph.D. from Stanford University in 1991 and was Director at the Max-Planck Institute for Computer Science in Saarbrücken, Germany.

Helen Gil is the Program Director for the Embedded & Hybrid Systems program of the National Science Foundation's Directorate for Computer and Information Science and Engineering (CISE) Division of Computer and Network Systems (CNS). Previously, she served as a Program Manager in the Information Technology Office of DARPA and was a Principal Scientist with the MITRE Corporation. Dr. Gill received her Ph.D. in Computer Science from Auburn University.

David Skellern is a successful ICT entrepreneur, with a background in scientific research, industrial R&D, and engineering education. In 1997 he co-founded Radiata Inc to build wireless LAN chips based on research he led at Macquarie University, in collaboration with CSIRO. Dr Skellern has BSc, BE and PhD degrees from Sydney University. He has been CEO of National ICT Australia (NICTA) since mid-2005.

Hermann Kopetz received his PhD degree in physics "sub auspiciis praesidentis" from the University of Vienna, Austria in 1968. He was a manager at Voest Alpine in Linz, Austria, before joining the Technical University of Berlin as a professor for Computer Process Control in 1978. Since 1982 he is professor for Real-Time Systems at the Vienna University of Technology, Austria. Dr. Kopetz has published more than 100 papers and patents in the fields real-time computing, distributed computing and fault tolerance.

Edward A. Lee is the Robert S. Pepper Distinguished Professor and former chair of the Electrical Engineering and Computer Sciences (EECS) department at U.C. Berkeley. His bachelors degree is from Yale University, his masters from MIT, and his Ph.D. from U. C. Berkeley. His research interests center on design, modeling, and simulation of embedded, real-time computational systems. He is a director of Chess, the Berkeley Center for Hybrid and Embedded Software Systems, and is the director of the Berkeley Ptolemy project. He is co-author of five books and numerous papers.

Pietro Perlo joined Centro Ricerche Fiat CRF in 1981 where he is Director and Senior Chief Scientist. He is also a lecturer in applied optics with the Institute of Physics of the University of Torino. Pietro is the author of a large number of patents that has lead to a variety of products in lighting, sensors and shape memory actuators. He is the author of a hundred Technical and Scientific papers or chapters on books. His focus is on technologies and building blocks design/integration for Full Electrical Vehicles.

Michael Winokur is the Director of Corporate Engineering and Development at Israel Aerospace Industries Ltd. Dr. Winokur holds a B.S. Summa Cum Laude in Electrical Engineering (1976) and an M.S. in Nuclear Engineering (1979) from the Technion in Haifa Israel, and a Ph.D. in Systems Engineering (1982) from Imperial College, London. He has been Chairman of the Israeli Chapter of IN-COSE and has been chairman of IEEE Computer Society Israeli Chapter. Dr. Winokur is a senior external lecturer in the Computer Science Department at Tel Aviv University and at the MS in Systems Engineering in the Technion in Haifa.

Johng-Ihl Lee is professor at the Department of Trade and Commerce at the Namseoul University, Korea.

José Cotta is the Head of Unit "Embedded Systems and Control", Directorate General for Information Society and Media of the European Commission. He also was the Interim Executive Director of the ARTEMIS Joint Undertaking.