

ABOUT US: [organisational chart](#) | [committees](#) | [members](#) | [nodes](#)

MAtematics, Computing and Simulation for Industry

MACSI-NET, A NETWORK WITH ACADEMIC AS WELL AS INDUSTRIAL NODES, IS DEVOTED TO PROMOTE THE USE OF MATHEMATICAL MODELS, COMPUTING AND SIMULATION IN INDUSTRY.

TO THIS END IT ORGANISES ACTIVITIES (MEETINGS, WORKSHOPS, ETC) TO INCREASE AWARENESS IN BOTH ACADEMIA AND INDUSTRY OF THE POTENTIAL OF MATHEMATICS AND SIMULATION, AND ALSO TO STIMULATE COOPERATION.

It is apparent that the industry is meeting ever more challenging problems, which should be solved by using state of the art mathematical and computational tools. Academic institutions often have the qualities and expertise to be of great help in this. However, enterprises often do not know how to find the proper academic partners, in particular in mathematical areas. On the other hand academic institutes are still not sufficiently aware of the importance of taking up their role in a joint tackling of both smaller and larger problems that may help Europe's industry to maintain or achieve a competitive edge in a variety of areas.

MACSI-net is therefore set up as a network where both enterprises and university institutions co-operate to solve these problems, to their mutual benefit. In particular the network focuses on strategies to increase the interaction between industry and academia in order to

- **help industry (in particular SME) with advanced mathematical and computational tools**
- **increase awareness of academia of industrial needs.**

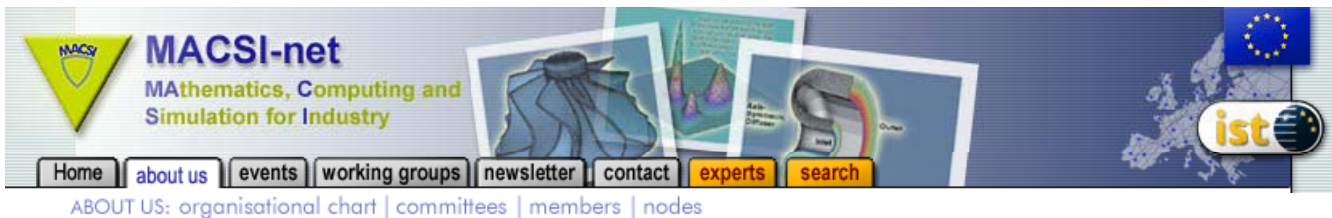
The network is multidisciplinary, combining the power of mathematics, scientific computing and engineering, for modelling and simulation
The network should achieve its goals through

- **Strategic meetings with industries about well specified topics**
- **Summer courses**
- **Workshops**
- **Visits of experts**
- **Foundation of special (interest) groups**
- **Funding and appointment of post docs**
- **Activity committees who actively look for funded proposals from EU or other bodies**

The original network was set up by a joint effort of [ECCOMAS](#) (European Community on Computational Methods in Applied Sciences) and [ECMI](#) (European Consortium for Mathematics in Industry). MACSI-net has successfully applied for support at the EU and is recognised as a "Network of Excellence". It is open by principle ([see Nodes and Members, in about us](#)).

The Network has a Strategy Board for long term objectives, with distinguished people from industry and academia as its members. At the moment it is cochaired by Dr Estola (Nokia, Finland) and prof Neunzert (ITWM, Germany). The daily policy is steered by the executive committee, chaired by the co-ordinator of the network.

The various nodes will each bring in general and specific expertise in areas of mathematics and computing. Their role may be different for different expertise areas. The role of industrial nodes is somewhat complementary to the academic ones. The network is aiming at dissemination of ideas, models and algorithms to their mutual benefit. It may lead to joint research efforts and forging of (often thinly spread) local initiatives. In particular future joint research proposals are expected to make this network attractive for all involved.



ABOUT US: [organisational chart](#) | [committees](#) | [members](#) | [nodes](#)

Nodes and Members

NODES: MACSI-NET NODES ARE ACADEMIC INSTITUTIONS OR INDUSTRIAL COMPANIES, WHICH HAVE EXPRESSED INTEREST IN MACSI-NET ACTIVITIES.

MEMBERS: MACSI-NET MEMBERS ARE NODES (INSTITUTIONS, UNIVERSITIES OR COMPANIES) THAT HAVE A FORMAL MEMBERSHIP-CONTRACT WITH MACSI-NET.

NODES: As any network, the Network of Excellence MACSI-net consists of nodes and links between nodes. Any academic or industrial institution in the EU and Associate States may become a node. The eventual admission is up to the Executive Committee. To do this they have to fill in [the application form on the web](#) or write to [the MACSI-net secretariat](#). A node will be represented by a person (or persons) by name.

The benefits of being a node are: receiving all the information of the network (including the newsletter), having the possibility to actively participate in the network (attending workshops and the like), having a possibility to employ the distributional system of the network.

MEMBERS: A member is a node that has signed a membership agreement. At the start of MACSI-net 20 nodes signed such a membership agreement; presently MACSI-net consists of 24 nodes. One of the means of MACSI-net to support the network is funding for visiting MACSI-net activities. Persons belonging to a member are entitled to funding of their travelling, up to a certain amount; this amount may be up for a change. If the funds allow, the Executive Committee may allocate such travel funds to more (than the 20 initial) members in due course.

Full List of Members

Technische Universiteit Eindhoven, Netherlands
Prof. dr. R.M.M. Mattheij, mattheij@win.tue.nl

Johannes Kepler Universität Linz, Austria
Prof. dr. H.W. Engl, engl@indmath.uni-linz.ac.at

Vrije Universiteit Brussel, Belgium
Prof. C. Hirsch, hirsch@stro.vub.ac.be

Denmarks Tekniske Universitet, Lyngby, Denmark
Prof. J.Gravesen, J.Gravesen@math.dtu.dk

Jyväskylän Yliopisto / University of Jyväskylä, Finland
Prof. P. Neittaanmaki, pn@math.jyu.fi

Dassault Aviation, France
Prof. J. Périaux, periaux@rascasse.inria.fr

Institut National de Recherche en Informatique et Automatiques, Sophia Antipolis, France
Prof. J-A Désidéri, Jean-Antoine.Desideri@sophia.inria.fr

Institut für Techno- und Wirtschaftsmathematik, Kaiserslautern, Germany
Prof. dr. H. Neunzert, neunzert@itwm.uni-kl.de

Konrad-Zuse-Zentrum für Informationstechnik Berlin, Germany
Dr. U. Nowak, nowak@zib.de

National Technical University Athens, Greece
Prof. K.D. Papailiou, kpapail@lnt.mech.ntua.gr

MIRIAM, Università degli Studi di Milano, Italy
Prof. V. Capasso, vincenzo.capasso@mat.unimi.it

Università degli Studi di Padova, Italy
Prof. B.A. Schrefler, bas@caronte.dic.unipd.it

Norges Teknisk-Naturvitenskapelige Universitet, Trondheim, Norway
Prof. H. Holden, ecminor@math.ntnu.no

International Center for Numerical Methods in Engineering, Barcelona, Spain
Dr. G. Peffer, gilbert@cimne.upc.es

Universidad de Santiago de Compostella, Spain
Prof. J.M. Viaño Rey, maviano@usc.es

Chalmers University of Technology, Gothenburg, Sweden
Prof. N. Svanstedt, nilss@math.chalmers.se

Ecole Polytechnique Fédérale de Lausanne, Switzerland
Prof. A. Quarteroni, alfio.quarteroni@epfl.ch

*Seminar for Applied Mathematics, Eidgenössische Technische Hochschule
Zürich, Switzerland*
Prof. dr. R. Jeltsch, jeltsch@sam.math.ethz.ch

OCIAM, University of Oxford, United Kingdom
Dr. H. Ockendon, ociam@maths.ox.ac.uk

University of Wales at Swansea, United Kingdom
Prof. K. Morgan, k.morgan@swansea.ac.uk

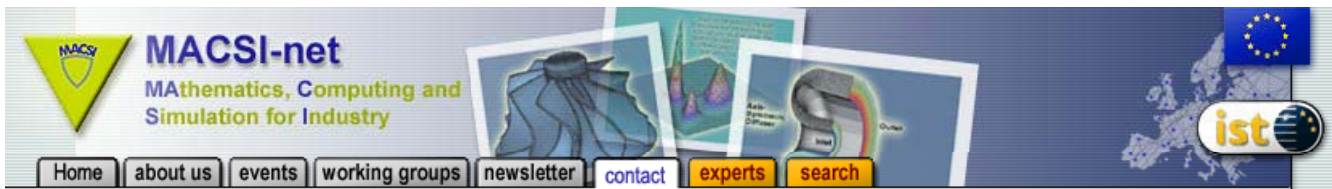
University of Innsbruck, Austria
Prof. O. Scherzer, otmar.scherzer@uibk.ac.at

University of Bayreuth, Germany
Prof. K. Schittkowski, klaus.schittkowski@uni-bayreuth.de

International Centre for Mechanical Sciences, Udine, Italy
Prof. C. Tasso, tasso@dimi.uniud.it

*Weierstrass-Institut für Angewandte Analysis und Stochastik im
Forschungsverbund, Berlin, Germany*
Dr. D. Hömberg, hoemberg@wias-berlin.de

MACSI-net, a European Network of Excellence to further interaction of mathematics and industry in Europe
© MACSI-net 2002



Registration Form

SECRETARY MACSI-NET:

MRS. M.L. DE HOOG

TECHNICAL UNIVERSITY
EINDHOVEN P.O. BOX 513
5600 MB EINDHOVEN
THE NETHERLANDS
PHONE : +31 40 2472812
FAX : + 31 40 2442489
EMAIL :
MACSI.WIN@TUE.NL

WEBEDITOR:

MR. P. Omero

COMPUTER SCIENCE
DEPARTMENT, UNIVERSITY
OF UDINE
VIA DELLE SCIENZE 206,
33100 UDINE, ITALY
PHONE: +39 0432 558446
EMAIL:
OMERO@DIMI.UNIUD.IT

**MACSI-NET
NEWSLETTER:**

FRAUNHOFER-INSTITUT FÜR
TECHNO- UND
WIRTSCHAFTSMATHEMATIK
GOTTLIEB-DAIMLER-STR.,
GEB. 49 D-67663
KAISERSLAUTERN GERMANY

EMAIL :

MACSI@ITWM.FHG.DE

Title:	<input type="radio"/> Prof. <input type="radio"/> Dr. <input type="radio"/> Mr. <input type="radio"/> Ms.
Full name:	<input type="text"/>
Working for	<input type="radio"/> Academic Institution <input type="radio"/> Industry
Name of institute/industry	<input type="text"/>
Mailing Address:	<input type="text"/>
Zip Code:	<input type="text"/>
City:	<input type="text"/>
Country:	<input type="text"/>
E-mail Address:	<input type="text"/>
Tel:	<input type="text"/>
Fax:	<input type="text"/>
Areas of interest of your organization ? (Select five options at most)	<input type="radio"/> Aeronautics <input type="radio"/> Transports <input type="radio"/> Material processes <input type="radio"/> Chemistry <input type="radio"/> Environment <input type="radio"/> Bioengineering and Medicine <input type="radio"/> Telecommunication <input type="radio"/> Energy
Own Specialisations	<input type="text"/>
Remarks/Suggestions:	<input type="text"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	