



Participant Profile

for the
Turkish-German Strategy Workshop 2006
TÜBİTAK Marmara Research Center,
Istanbul- Gebze Turkey
13 – 15 December 2006



International Bureau (IB)
of the Federal Ministry of
Education and Research
(BMBF)

**Expertise,
technologies and
infrastructures
available in your
institution:**

Research activities / expertise/ Methods/ Key technologies:

The activities of the Fraunhofer Institute for Industrial Engineering IAO focus on investigation of current topics in the field of technology management. A holistic approach is applied to the study of commercial success, employees' interests and social consequences. The Institute helps companies to identify the technologies of relevance to them, and draws up a technology strategy aligned to the competitive environment and the market. It plans the deployment of technology for the entire enterprise, in the business sectors and in individual projects. Depending on the requirements of the company, the Institute develops or modifies technical systems. The Fraunhofer IAO plans and organizes future-oriented structures suitable to the needs of people involved in production, as well as in the administrative and technical departments of companies in industry and the service sector. Research focuses on the development of advanced information and communications systems. In keeping with the holistic approach pursued, attention is also given to the individual and social values held by people in their working environment. This not only addresses the task of creating ergonomic solutions, but also the additional qualifications required by employees in coping with the decentralized organization of work and the implementation of new technologies. Research projects are conducted in close collaboration with small and medium-sized companies and industrial corporations under direct contract. The Fraunhofer IAO participates in publicly funded research programs, such as the »Information Technology« and »Work and Technology« programs of the German Federal Ministry of Education and Research, in programs of the European Union, as well as in programs funded by the Land of Baden-Württemberg. Fraunhofer IAO works in close cooperation with the Institute for Human Factors and Technology Management (IAT) of the University of Stuttgart. Both Institutes employ a permanent staff of over 250.

Infrastructures:

More than 10 200 m² of offices, laboratories and technical installations are available to carry out contracted research.

For further information: www.iao.fraunhofer.de



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2. Past and present research collaborations

Are you familiar
with the European
Framework
Programme?

Yes

No

- with Framework Programme 5
- with Framework Programme 6
- with Framework Programme 7

EU-projects you are
involved in:
Past projects

**Programme title / contract number / title / acronym / your function
(coordinator / partner / contractor)**

The FhG-IAO has been involved in more than 50 European R&D projects.
e.g.

- FP4-Brite/EuRam project, BE97-4630, 'ElectSME' - Elimination of end-of-life cost through a standardised simultaneous design methodology for SME supply chains (Technical Coordination)
- FP4-CRAFT project, Craft-1999-70024, 'Spedemam' - SME-Specific Design for Manufacturing and Assembly Methodology (Project Partner)
- FP5-Growth project, GRD1-2000-25761, 'EUROShoE' - Development of the processes and implementation of management tools for the Extended User Oriented Shoe Enterprise, (Project Partner, Leading Research Institute)
- FP5-IST project, IST-2001-32031, 'VOSTER' - Virtual Organisations Cluster (Project Partner)
- FP5-IST project, IST-2001-35104, 'e-MMEDIATE' - Electronic managing of product manufacturing, engineering, design and investment applying information technology for SMEs management for machine manufacturing SMEs, Project Partner
-
- FP6-IST-NMP Integrated Project, 507592-2, '5-DayCar-ILIPT' - Intelligent Logistics for Innovative Product Technologies, Project Partner
- FP6-NMP Integrated Project, 515825-2, 'ManuBuild' - Open Building Manufacturing, Project Partner
- FP6-IST STREP Project, 035229, 'CoVES' - Collaborative Virtual Engineering for SMEs, Project Coordinator

Present projects

Other international
collaborations:

Name(s) and
contact details of
potential partners:

If you would like to suggest the participation of particular partners from the partner country based on existing contacts or collaboration experience, you are welcome to indicate their names and contact details below:

- Already our project partner in the EU funded project CoVES (see above):
Mr. Osman Balkan (General Manager)
Balkan Tekstil Makinalari Sanayi Ltd. Şti.
Aydın Denizli Karayolu Astim Organize Sanayi Bölgesi P.K. 172;
Aydın; Turkey



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3. Presentation at the Workshop

I will give a presentation at the workshop (approx. 10 min.) to present my institution, my expertise, and my collaboration interests. The contents of my presentations is summarised below (max. 1 page).

- The Fraunhofer Institut für Arbeitswirtschaft und Organisation IAO (introduction, research fields, competences, etc.)
- Experiences with European Research Projects (experiences, the reference projects '5-DayCar-ILIPT' (IP) and 'CoVES' (STREP))
- Planned activities in FP7 and our collaboration interests

I agree with the publication of my data on the Workshop website!

PLEASE FILL IN THIS FORM **UNTIL 22 SEPT. 2006 AND RETURN IT TO:**

Internationales Buero des BMBF
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Christian.schache@dlr.de

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Appendix:

Publications of Mehmet Kürümlüoğlu

- Author: Bopp, R. ; Kürümlüoğlu, M.**
Title: Ein Verfahren zur Restwertgenerierung in der Konstruktion
in: Recyclingorientierte Entwicklung technischer Produkte 2000, VDI-Berichte 1570, Seite 313-319, VDI-Verlag: Düsseldorf 2000.
- Author: H.-J. Bullinger; Frank Wagner; Mehmet Kürümlüoğlu; Andreas Bröcker**
Title: Enabling IT for Mass Customization: The IT architecture to support an Extended Enterprise offering mass customized products
in: Conference Proceedings, 2001 World Congress on Mass Customization and Personalization, 1.-2. Oktober 2001, Hong Kong.
- Author: Kürümlüoğlu, M. ; Auwers W. ; Landi, W ; Walachowicz, F**
Title: Elimination of End-of-Life cost through a standardised simultaneous design methodology for SME supply chains (ElectSME)
in: Conference Proceedings, European Conference on Electronics and the Environment: Improving the environmental performance in electronics supply chains, 12./13.November 2001, Oslo, Norway.
- Author: Kürümlüoğlu, M.**
Title: Ein Verfahren zur Restwertgenerierung in der Konstruktion
in: Umweltgerechte Produktentwicklung - Leitfaden für die Entwicklung und Konstruktion, Loseblattsammlung, 3. Ergänzungslieferung, Kapitel 4.6.3.3 - 7 Seiten, Beuth Verlag: Berlin, Januar 2002.
- Author: H.-J. Bullinger; Frank Wagner; Mehmet Kürümlüoğlu; Andreas Bröcker**
Title: Enabling IT for Mass Customization: The IT architecture to support an Extended Enterprise offering mass customized products
in: The Customer Centric Enterprise: Advances in Mass Customization and Personalization; Seite. 451-464, ISBN 3-540-02492-1, Springer: New York/Berlin, 2003
- Author: Dieter Spath, Mehmet Kürümlüoğlu, Rita Nøstdal**
Title: Mass Customisation in der Schuhindustrie:
Der kundenindividuell gefertigte Schuh
In: Marktchance Individualisierung, Beteiligt: Reinhart, Gunther (Hrsg.) , Berlin [u.a.]: Springer, 2003, XVI, 384 S. Ill., graph. Darst. ISBN: 3-540-00594-3
- Author: Joachim Warschat, Mehmet Kürümlüoğlu, Rita Nøstdal**
Title: Enabling IT for Mass Customization: The IT architecture to support an Extended Enterprise offering mass customized products
in: World Congress on Mass Customization and Personalization <2, 2003, München> (2003), 8 Seiten.
- Author: Mehmet Kürümlüoğlu, Rita Nøstdal, Iris Karvonen**
Title: Base Concepts - Concepts and approaches of Virtual Organizations
in: Virtual Organizations - Systems and Practices, Seite 11.-28., ISBN 0-387-23755-0, Springer: New York, 2005.
- Author: Mehmet Kürümlüoğlu**
Title: EuroShoE: Development of the processes and implementation of management tools for the Extended User Oriented Shoe Enterprise
in: Virtual Organizations - Systems and Practices, Seite 297-298, ISBN 0-387-23755-0, Springer: New York, 2005.
- Author: Joachim Warschat, Mehmet Kürümlüoğlu, Rita Nøstdal**
Title: Enabling IT for the support of an Extended Enterprise offering mass customized products
in: International Journal of Mass Customization, Volume1 NOS 2/3, Seite 394-401, ISSN 1742-4208, Inderscience, 2006.



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Author: Dieter Spath, Frank Wagner, Flavius Sturm, Mehmet Kürümlüoğlu
Title: F&E-Konzepte für die Zukunft – Management von Technologie und Engineering
in: Forschung stärken - Produktion sichern, Seite 117-128, ISBN 3-540-32660-X, Springer: Berlin Heidelberg New York, 2006.