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MTA SZTAKI

Magyar Tudományos Akadémia
Számítástechnikai és Automatizálási Kutatóintézet

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AZ INTÉZETRŐL

The Computer and Automation Research Institute, Hungarian Academy of Sciences (MTA SZTAKI), the largest and most successful research institute in information science in Hungary, is a member of the research institute net-work governed by the Hungarian Academy of Sciences.

MTA SZTAKI is the base of information science in the broad sense, the national research basis of information technology and computer sciences and related fields. Primarily, the technical-scientific and mathematical issues of information science are investigated, but research comprises areas connected to the fundamental questions. Above pursuing comprehensive basic- and applied research, the application of the acquired particular knowledge and experience in R&D, system design and system integration, consulting, soft-ware development is a major task.

Our basic principles are to establish interwork between basic research of international standard and high-level consulting in information science based on results applicable inland and abroad, to found a center of excellence in a wide research domain, ensuring interesting themes and conditions for talented young researchers in Ph.D. studies, starting their creative activity.

The activity-related philosophy of the Institute is based on the work of the units providing high-level basic research, ensuring

The goodwill of the Institute, both inland and abroad, in certain prominent areas, exploitable results and a problem-solving environment guaranteeing competitive advantage regarding certain products, versus firms specialized in application in the fields of system design and consulting, Initiation of talented youngsters into research and application-based tasks, through university education,

The Institute is a stable, independent partner in R & D and in the field of contract-based applied work, as system planning, system integration, consulting, and turn-key information systems.

Quality is an important issue at the Institute: we have an EN ISO 9001:2000 certification. Through numerous EU FP6 and FP7 projects, researchers of MTA SZTAKI contribute extensively to European scientific cooperation projects.



Basic research

- Computer Science
- Systems- and control theory
- Engineering and business intelligence
- Machine perception and human-computer interaction

R&D Activities

- Vehicles and transportation systems
- Production informatics and logistics
- Energy and sustainable development
- Security and surveillance
- Networks, networking systems and services, distributed computing

External relationships of the Institute

The Institute has wide external relationships in its R&D profile. ERCIM (European Research Consortium of Informatics and Mathematics) granted full membership to the Institute in 1994. The Institute is a member of the (World Wide Web) W3 Consortium led by the Massachusetts Institute of Technology (MIT) and of other international organizations. Our Institute won the title of "Centre of Excellence" of the EU, and the number of EU projects is also impressive.

Virtual Institutes and Research Centers

In the EU the concept of supporting the collaboration of research groups working at different institutions on specific subjects is a new emphasis, called virtual research centers. MTA SZTAKI has joined forces in this pioneering endeavor with a number of research establishments in a Hungary, as well as in the EU.

The Institute participating in Centers:

- In the field of Production and Business Management, the Engineering and Management Intelligence Laboratory has joined forces with Fraunhofer Institute for Manufacturing Engineering and Automation of Germany.
- Twelve establishments, including five universities form the Virtual Research Centre in InfoBionics. One of the founding members is the Analogic & Neural Computing Laboratory of the Institute.
- The Laboratory of Parallel and Distributed Systems is a very active and early member of the (computer) Grid Consortium.

Chairman:

János Csirik, academician

National Members of the Board:

László Pap, academician

Gábor Stépán, academician

International Member of the Board:

Prof. Hendrik van Brussel,
Katholieke Universiteit Leuven

Director:

László Monostori, academician

Director, science:

József Bokor, academician

Director, finance:

Mariann Dörnyei