

Focused basic research

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

Development and innovation

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

International relations

MTA SZTAKI in the past decade was intensively engaged in international scientific cooperation, for example the institute was involved in 44 projects within the EU FP7 Programme, in 8 cases acting as the head of consortium. This series of success seems to continue also in the Horizon 2020 Programme.

With respect to the research in avionics, the relationships with the University of Minnesota, the US Office of Naval Research (ONR), University of Bordeaux, as well as the German Aerospace Centre (DLR) and the European Space Agency (ESA) should be mentioned. Of special importance is the long standing R&D cooperation between SZTAKI and HITACHI that, going back to nearly a decade, has already resulted in a number of joint patent applications. Most of the Institute's activities pertaining to applied R&D in production informatics and logistics as well as to the industrial deployment thereof are carried out in the framework of the Fraunhofer-SZTAKI Project Centre for Production Management and Informatics established in 2010.

Industrial cooperation

MTA SZTAKI cooperates with significant major enterprises such as GE, Audi, Hungarian Telekom, MOL, Knorr-Bremse, Bosch, Opel. The technology transfer to small enterprises guarantees that the Institute's results keep on spreading in the widest possible spheres. The Hungarian National Technology Platform on Industry 4.0 is led by the Institute.

Participation in higher education

The Institute regards teaching activities as an important ingredient of its research work and also as an indispensable part of building the future. Many researchers at the Institute also fulfil teaching mandates at various Hungarian universities. On average, around 20 PhD students conduct research work at the Institute under the tutorship of our senior researchers.

Chairman:

Prof. János Csirik

Hungarian Members:

Prof. László Pap**Prof. Gábor Stépán**

International Members:

Prof. Jürgen Beyerer**Prof. Hendrik van Brussel****Prof. Paul-M.J. Van den Hop**

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Prof. László Monostori

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