

Overview of HU-MATHS-IN, the Hungarian Service Network of Mathematics for Industry and Innovation

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Inspired by the creation of EU-MATHS-IN, HU-MATHS-IN was established in 2013. Initially, the activities of the Hungarian network were based on the decades-long industrial collaborations of the national mathematical research groups. Since 2017 its activities are intensified by an EU and Hungary-supported project (EFOP 3.6.2-16-2017-00015) in which best practices of the EU-MATHS-IN national networks were analysed and some of them adapted. The main results of the project include, among others, the following ones:

- more than 50 short-term aimed basic research projects with industry,
- two collaborative projects of the HU-MATHS-IN research groups,
- national one-stop-shop for services to industry with mathematical technologies.

HU-MATHS-IN has been participating in the EU-MATHS-IN activities strongly, e.g. with successful research and innovation actions projects within the H2020 framework program.

In this talk an overview of the organization of the network and its activities will be given. In addition, some short-term industrial projects of HU-MATHS-IN will be overviewed from the fields of computational acoustics and model order reduction for compressible fluids, with mathematical details.