

4TU.AMI Strategic Research Initiatives

In view of its mission to facilitate exchange and collaboration between mathematicians of the four Dutch universities of technology, 4TU.AMI offers support for new research initiatives.

Strategic Research Initiatives (SRIs)

4TU.AMI aims to stimulate and encourage academic collaboration to strengthen the community and increase the impact of our research. Therefore, 4TU.AMI has allocated part of its budget for strategic research initiatives initiated by members of the four mathematical departments of the Dutch universities of technology, replacing the former Strategic Research Orientations (SROs) on the themes Big Data, Energy, Health, Resilience and Water.

4TU.AMI management has observed that collaboration benefits from a focused and well-defined objective including also short- and mid-term goals. The new SRIs are essentially collaborations between university researchers, centered around a central research topic with a concrete goal, and have a timespan of around 2 years. A possible goal could be to initiate the cooperation on a new specific research topic or to write a joint grant proposal. The aim is to start a minimum of 2 SRIs per year. 4TU.AMI encourages a bottom-up approach, so the viability of the SRI depends on the input of the involved researchers. The SRI concept aims to broaden the network of the involved researchers, making this an excellent opportunity for young academic staff members especially. At the end of the agreed timespan, an SRI can apply for an extension of the timespan hereby specifying the concrete remaining topics and the additional goals to be reached.

- 1) 4TU.AMI offers the following support to SRIs:
 - 4TU.AMI facilitates in the organization of events through secretarial and financial support. Examples of possible events include workshops, mini-symposia, colloquia, and summer schools.
 - Researchers may request funding for external guest speakers, visiting professors, short international research visits, and other international activities.
 - For SRIs working towards a joint grant application, 4TU.AMI can arrange support for writing and editing the grant proposal.
 - SRIs may use the 4TU.AMI community, including its partners in industry, to expand their network.

- 2) The following conditions are in place:
 - The SRI is initiated by researchers working at the four mathematics departments of the universities of Delft, Eindhoven, Twente and Wageningen. The SRI preferably involves researchers from all involved universities, but with a minimum of two of these universities. If these connections are not already available, 4TU.AMI can help to build this community.

- The SRI has a clear short-term goal related to the mathematical sciences, and its activities are focused towards this goal. A common period is around two years; SRIs can be extended on request.
- The annual budget of the SRI should not exceed €10.000. This budget can be used for the organization of the events and activities under 1).
- SRIs are expected to regularly report to the 4TU.AMI management about their progress. A brief final report about the results of the SRI is requested.
- For the organization of a larger event (such as a multi-day conference with several international speakers), SRIs can submit a request for additional funding. Applications are assessed according to their scientific merit, visibility in the community and relevance in strengthening collaborations within 4TU.AMI.
- Scientific meetings are expected to acknowledge 4TU.AMI support.

Researchers can contact 4TU.AMI at ami@4tu.nl for more information.

About 4TU.AMI

4TU Applied Mathematics Institute (AMI) is a joint initiative by the four individual mathematics departments of the universities of Delft, Eindhoven, Twente and Wageningen. 4TU.AMI stimulates, supports and inspires innovative mathematics-related education, research as well as collaboration, projects and community initiatives.

4TU.AMI is one of the centers of the 4TU.Federation. This federation accelerates and stimulates innovation by combining and concentrating the strengths of four Dutch universities in research, education, and transfer of knowledge. The universities involved are Delft University of Technology, Eindhoven University of Technology, University of Twente and Wageningen University.