

## Technical University of Munich (TUM)

# MIRMI Newsletter 2022 - May

## Community

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17. May 2022

### [Automation know-how in 23 installments at automatica](#)

Would you like to listen to the world's leading robotics experts or experience hands-on presentations of current robot models? Discuss the outlook of future industrial production or converse with AI specialists? Whatever visitors may be looking for—above and beyond the world's most comprehensive overview of automation technology components and systems: automatica, which will be held in Munich from June 21 to 24, has a supporting program that will live up to their expectations.

12. May 2022

### [Humboldt Professorships for Angela Schoellig and Daniel Rückert](#)

With grants of as much as five million euros, Humboldt Professorships are the best-endowed research prize in Germany. Prof. Angela Schoellig and Prof. Daniel Rückert officially received this honor on May 12, 2022. Both conduct research at TUM in the field of Artificial Intelligence. The article includes an interview about the benefits of their work and their scientific objectives.

09. May 2022

### [MIRMI welcomes new sector leaders to its Science Board](#)

MIRMI announced during the MIRMI General Assembly on 05. May that 7 out of 16 members in its Science Board changed their role as sector leaders. The Science Board is composed of leaders from the Integrative Research Institute's sectors of Health, Work, Environment, Mobility, Robotics, Perception, Artificial Intelligence, and Education. The Science Board membership is an opportunity for various Principal Investigators to lead the development of their sectors by continuing previous projects, launching new initiatives, and setting new priorities and strategies. Former sector leaders' contributions have been critical to the current development of MIRMI, from the initial definition of the sectors and their research agendas to their assistance in establishing Focus Groups and Lighthouse Initiatives. The past and new members of MIRMI's Science Board can be found in this article.

06. May 2022

### [MIRMI Seed Funds were granted to 3 projects](#)

MIRMI will provide seed funding for three projects within the first round of MIRMI Seed Funds. The MIRMI Scientific Advisory Board (SAB), an independent organ of MIRMI composed of leading academics in the field of robotics and artificial intelligence from different universities across the world, reviewed and selected the best proposals. The idea is to foster joint projects at the initial stage to support innovative and ambitious ideas within a broad variety of topics in the field of robotics and machine intelligence. The first round of MIRMI Seed

Funds will cover 50% of up to two (post)doctoral researchers for up to 6 months duration to initiate the new project. Successful projects can start immediately. In the long run, MIRMI plans to support up to 4 projects every 6 months. The next call is planned to be released in Autumn.

06. May 2022

## **The first MIRMI General Assembly activated new forms of collaboration**

MIRMI organized its first General Assembly, to which Principal Investigators, MIRMI Lab coordinators as well as the Institute's administrative team were invited. The forum took place on 05. May in MIRMI's temporary premises at Georg-Brauchle-Ring 58, 80992 Munich. The General Assembly is organized twice a year and provides an opportunity for members to participate in strategic discussions, interact with the MIRMI team, learn about the benefits of MIRMI and discuss the challenges to achieving the ambitious goal of conducting joint research. Highlights of the event included first-hand updates on MIRMI's integrative graduate program, a Digital Lab Tour featuring a Model of Shared Labs and Facilities, and productive discussions in eight Focus Groups.

30. April 2022

## **Using artificial intelligence to treat heart diseases better**

The objective of the Technical University of Munich (TUM) lighthouse project "Digitaler Herz-OP" ("Digital Heart Surgery") is to enable more precise and lower-impact treatment of heart disease. Physicians and engineers at the German Heart Centre Munich (DHM) and the Munich Institute of Robotics and Machine Intelligence (MIRMI) are working together closely in a leading-edge partnership to jointly develop new high-precision instruments for the operating room, the cardiac catheter lab, and the intensive care unit. Oriented toward clinical challenges, innovative sensor data fusion, AI-augmented analyses, and modern information technologies are used to create new digital treatment methods.

19. April 2022

## **robo.innovate – the new robotics network goes online**

It remains exciting all around robo.innovate. The deep-tech incubator for advanced Bavarian start-ups in the field of robotics and AI, which was launched at the end of 2021, is showing initial success. The new website of robo.innovate recently went online under the address <https://roboinnovate.mirmi.tum.de>. This is the first port of call for robotics enthusiasts who want to take the plunge and start their own company. In addition, there are now 12 robotics teams in the pipeline, which benefit from regular coaching, and access to the robo.innovate workshop area as well as expert support and contact with our startup and investor community. Four teams even made it into the selection for the munich\_i/AI.Society special exhibition area of the automatica trade fair and can present their products and prototypes to the expert audience from 21. – 24. June. In order to draw even more attention to the potential and opportunities of robotics, the robo.innovate team is bringing together experts from research, industry, and politics. Stay tuned!

## **Events and Calls**

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30. May – 02. June 2022

## **TUM/MIRMI will present the TUM Industry Engagement Program (TUM IEP) at Hannover Messe 2022**

At this year's Hannover Messe (May 30 - June 02, 2022), MIRMI will have its booth for the first time. TUM and MIRMI are jointly organizing the trade fair participation to present a new TUM-wide industry program to the

general public there: The TUM Industry Engagement Program (TUM IEP). The pilot of the TUM IEP for the Focus Area "Intelligent Robotics" will be hosted and led by MIRMI. Once this Focus Area has been successfully launched in fall/winter, the program will be expanded to further Focus Areas in the future. You can visit MIRMI at the Hannover Messe at the joint booth of Bayern Innovativ: Hall 2, Stand A52. Interested trade visitors from the MIRMI community can register for a free trade visitor ticket to the Hannover Messe at the following link and download it afterward: <https://www.hannovermesse.de/en/?open=ticketRegistration&code=wV4Yv>

22. June 2022

## [The munich\\_i Hightech Summit: In-person and with a state reception](#)

The munich\_i Hightech Summit is the highlight of the automatica's support program and will be held on June 22, 2022. Under the theme 'intelligence empowering tomorrow', leading international technology drivers along with pioneers from science and industry will present their innovations, findings, and megatrends regarding the interaction between human and artificial intelligence, and responsible technological change. Minister-President Dr. Markus Söder will open the munich\_i Hightech Summit within the framework of a state reception at the Munich Residenz Palace on the previous evening.

21. – 24. June 2022

## [Munich\\_i / AI.Society offers guided tours and live talks at automatica](#)

Around 30 demonstrators from the Technical University of Munich, TUM's Munich Institute of Robotics and Machine Intelligence (MIRMI) as well as selected start-ups and several projects' partners will present their latest innovations in the munich\_i / AI.Society exhibition area during the automatica conference from 21. to 24. June, 2022 in Hall B4 at Messe München. Additionally, 20-minute live talks will take place on the i\_space stage of munich\_i every day from 11:00- to 12:30. During the exhibition, visitors will be able to meet researchers and developers on-site, and exchange ideas for potential collaboration opportunities. To get a free day ticket, in the automatica ticket shop use our promotion code **Aisocietyauto22**. Please note that this free ticket is not valid for admission to the munich\_i Hightech Summit, for which you can purchase tickets [here](#).

30. - 31. May 2022

## [HACK|BAY 2022](#)

The digital start-up center in Nuremberg - the ZOLLHOF Tech Incubator - that works closely together with MIRMI's robo.innovate network, is organizing a Hackathon that will take place online and on-site - in Nürnberg, from 30. to 31. May 2022. There is also a challenge with a robotics platform on the agenda. MIRMI can purchase 5 tickets with a discount for the early movers. If you are interested, please contact [robo.innovate@mirmi.tum.de](mailto:robo.innovate@mirmi.tum.de)

30. May 2022

## [SciFi: From Scientists to Innovators for Industry](#)

Are you ready to transition into the healthcare industry? Then apply to the EIT Health SciFi Programme, a three-month blended learning program giving you the skills you need to work as an innovator in the healthcare industry. The Friedrich-Alexander Universität Erlangen-Nürnberg has teamed up with a large consortium of academic and industry partners (Roche, Philips, Boehringer Ingelheim) to offer a program that will equip participants with crucial skills needed in an industry setting. The program runs from 02. September to 05. December 2022.

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## Give us feedback

Your feedback is important to us. Let us know if you have comments or recommendations at [community@mirmi.tum.de](mailto:community@mirmi.tum.de)

## Looking for a challenge?

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