

## Technical University of Munich (TUM)

# MIRMI Newsletter 2022 - August

## Community

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11. August 2022

### [Automation & Robotics: Projects at the TUM](#)

Practical experience can be gained not only in companies but also in the right research projects. HiTech-Campus asked at the Technical University of Munich which projects the students are working on for their career entry in robotics and automation - and why they are so passionate about them.

09. August 2022

### [Longleif Campus: Caritas also on board](#)

The approximately 150 million euro campus project of the non-profit Longleif GaPa GmbH in the district town has taken a decisive step forward: In addition to the Technical University of Munich, the second partner and tenant has now been determined. Caritas wants to operate a large care center on the site near the train station.

09. August 2022

### [Just say the magic word: using language to program robots](#)

Using language to program robots! This is the new research collaboration between Microsoft and MIRMI. Initial findings will be presented at IROS2022 in Japan. Language is the most intuitive way for us to express how we feel and what we want. However, despite recent advancements in artificial intelligence, it is still very hard to control a robot using natural language instructions. Researchers aim to change this reality through the introduction of "LaTTe: Language Trajectory Transformer". LaTTe is a deep machine learning model that lets us send language commands to robots in an intuitive way with ease.

04. August 2022

### [3 Questions for MIRMI doctoral student Kim Kristin Peper](#)

In the "Human Modeling and Rehabilitation Robotics" research group, Kim Kristin Peper conducts research on what is known as early rehabilitation. The Ph.D. student at the Munich Institute of Robotics and Machine Intelligence (MIRMI) bridges the gap between coding, robotics, and physiotherapy in her research.

02. August 2022

### [TUM Publication Guidelines updated](#)

The TUM Publication Guidelines are now available in a new, extended version. Newly included are regulations on how authors indicate their affiliation when belonging to two higher-level units at TUM, e.g. by belonging to a School and an Integrative Research Institute (IRI), Central Institute, or Cluster of Excellence. As a rule, the institution at which the predominant part of the research work for the publication in question was conducted is listed first. The updated publication guidelines have been approved by the TUM Board of Management and are binding for all TUM members as well as for visiting scholars who research and publish at TUM during their

residency. The updated version of the [Publication Guidelines in German and English is available here](#). If you have any questions regarding affiliation designation or the creation and maintenance of author profiles in literature databases and profile services, please contact the [University Library](#).

26. July 2022

## **5G campus network for university research**

O2 Telefónica provides the TUM Chair of Materials Handling Material Flow Logistics with a digital springboard for research. The 5G campus network at TUM provides a closed, secure research and development environment without connection to the public mobile network. It delivers high-performance network coverage in the chair's own research and development labs. The Chair aims to use the latest technology to explore the various functions and possibilities of 5G in the field of technical logistics and to test them in feasibility studies. The focus is particularly on the autonomization of robotics solutions in intralogistics and the collaboration of robots.

22. July 2022

## **Leading European research labs on Artificial Intelligence-driven Robotics join forces in the Network of Excellence euROBIN**

euROBIN is the Network of Excellence that brings together European expertise in Robotics and AI. It establishes a unified pan-European platform for research and development. For the first time, a large number of distinguished research labs across Europe are jointly researching AI-Based Robotics. Goals include both significant scientific advances on core questions of AI-based robotics as well as strengthening the scientific robotics community in Europe by providing an integrative community platform. The network is open to the entire robotics community and provides mechanisms of cascade funding to double its number of members over the next years.

## **Events, Calls, and More**

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28. July 2022

### **Open call for MIRMI Seed-Funds – Round 2 until 15.Oct.2022**

Are you a MIRMI Principal Investigator? Apply for MIRMI Seed Funds by 15.October.2022! The Institute will cover 50% of up to two (post)doctoral researchers for up to 6 months duration. The funding aims to foster further innovative, ambitious research ideas and cooperation within the Institute by supporting the kick-start of proposals in the field of robotics and machine intelligence. Successful applications are expected to result in composing joint publications or acquiring external funding.

28. July 2022

### **Sony Research Award Program – Apply until 15. September 2022**

The Sony Research Award Program provides funding for cutting-edge academic research and helps build a collaborative relationship between faculty and Sony researchers. With awards up to USD 150,000 per year for each accepted proposal, both the Faculty Innovation Award and Focused Research Award create new opportunities for university faculties and research institutions to engage in pioneering research that could drive new technologies, industries, and the future. The Award will support research and innovation in 17 European countries, the U.S., Canada, and India. European countries included in the Program are Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, United Kingdom. If you are interested, please consider submitting proposals to Sony within the scope described on the website following the guideline until 15. September 2022.

15. August 2022

## **[The ICRA 2023 paper submission deadline is 15 September 2022](#)**

The 40th IEEE Conference on Robotics and Automation (ICRA 2023) will take place at ExCeL London, from 29. May to 2. June 2023. The ICRA 2023 paper submission deadline is 15. September 2022. Being the flagship conference of the IEEE Robotics and Automation Society, ICRA will bring together the world's top researchers and leading companies to share ideas and advances in Robotics and Automation. The conference will include plenary sessions, contributed paper sessions, workshops and tutorial sessions, forums, videos, exhibitions, and robot competitions.

21. August 2022

## **[Munich Global Impact Sprint \(MGIS\) - Apply until 21.08.2022](#)**

The Munich Global Impact Sprint (MGIS) is an intense biannual six-month program for entrepreneurial talents to support them on their journey through the Munich ecosystem. The MGIS is an initiative led by three Munich-based universities Technical University of Munich (TUM), HM Hochschule München University of Applied Sciences (HM), and Ludwig-Maximilians-Universität Munich (LMU). The Munich Global Impact Sprint aims to be a key hub for innovation and entrepreneurship in the regional Munich ecosystem.

01. September 2022

## **[Robo.innovate hackathon to solve real-world challenges with robotics. Registration from 01. September – 01. October 2022](#)**

Robo.innovate and the MakerSpace will host an exciting opportunity for all robotics enthusiasts to solve real-world challenges in Munich starting in October! From 06. October on, interested students and professionals have the chance to gather in teams and address challenges from renowned companies like Continental and start-ups like Omegga. After a joint kick-off on 06. October, teams get four weeks, hardware and software as well as extensive support from experts to conceptualize and prepare a robotics solution that they can physically implement in a three days hackathon in the Munich Urban Colab from 4. – 6. November. Sounds interesting? Check out our website for more details. Spread the word and register from 01. September!

5. September 2022

## **[Networking event "Robotics in healthcare"](#)**

The networking event "Robotics in Healthcare - Shaping the Future Now" will take place at ZeRIG on 5. September at 15:30. Here you will get an insight into the topic "Robotics in Healthcare" as well as the opportunity to exchange ideas. Attendees will be able to experience on-site how easy working with a robot can be today.

14. – 16. September 2022

## **[AGRICONTROL 2022](#)**

The Organizing Committee has the pleasure of inviting you to participate in the 7th IFAC Conference on Sensing, Control, and Automation Technologies for Agriculture, to take place in Munich, Germany, 14. – 16. September 2022 under the auspices of IFAC, the International Federation of Automatic Control.

## **Recommended Readings, Videos, and Podcasts**

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### **[How sensor technology makes cars autonomous](#)**

By dpa-infocom (06. August 2022)

## **CDTM as a Munich lesson: The secret of spin-off strategy**

By brutkasten / Momcilo Nikolic (02. August 2022)

## **"Thanks to machines, we live in prosperity"**

By Trailer Ruhr (25. July 2022)

## **The future of car insurance: those who activate assistance systems pay less**

By rnd-de / Thomas Magenheim-Hörmann (19. July 2022)

## **PARTI-A Haptic Virtual Reality Control Station for Model-Mediated Robotic Applications - Video**

By Jean Elsner, Gerhard Reinerth, Luis Figueredo, Abdeldjalil Naceri, Ulrich Walter, Sami Haddadin (18. July 2022)

## **Arm wrestling with the robot**

By Süddeutsche Zeitung (17. July 2022)

## **Autonomous Robots transforming the future of Construction | AI FOR GOOD WEBINARS - Video**

By AI for Good (30. June 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)

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