



Munich Institute of Robotics and Machine Intelligence (MIRMI)  
Technische Universität München



## 12-2023 NEWS ABOUT ROBOTICS AND ARTIFICIAL INTELLIGENCE



### Top 10: Highlights of the Robotics Year 2023

KI.Fabrik introduced, Robotics Graduate Program launched, demos showcased at Automatica, and AI experimentation space approved: 2023 reveals the potential embedded in robotics for the region and beyond.

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### TUM is part of the AI Alliance

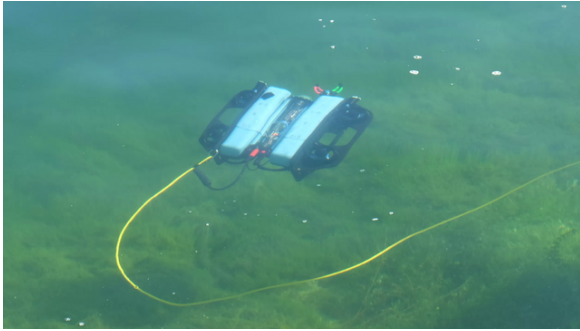
With the AI Alliance, the initiators IBM and Meta aim to create responsible artificial intelligence that serves society. Included in this initiative is TUM

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**AI makes gripping more intuitive**  
New research by Prof. Cristina Piazza is based on activity patterns of muscles in the forearm. This makes natural grasping possible.

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**€400,000 for a new Innovative Educational Project**

"Research-based learning" is at the center of the teaching project "EnviroBotics," which the Foundation for Innovation in Higher Education is supporting with 400,000 euros for two years.

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NUMBER OF THE MONTH

# 10 Projects

MIRMI has invested 200,000 euros in seed fund projects so far. Ten innovative approaches have been funded to date. The fourth 'call' is currently in preparation. You can find information about it [here](#).

VIDEO OF THE MONTH



A research team from the Technical University of Munich (TUM) is reinventing care to some extent using robotic applications. Dr. Abdeldjalil Naceri (see image) from MIRMI in Garmisch is leading the developments at the Geriatrics Research Center.

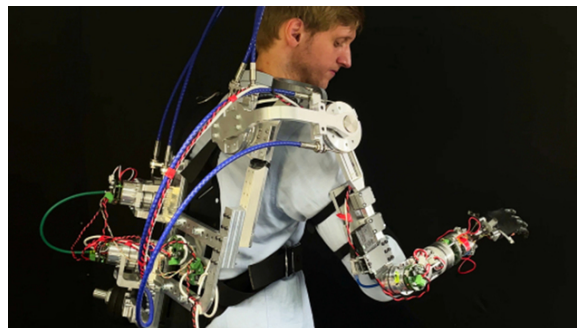
[Video](#)

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## PAPER OF THE MONTH

### Prosthetics Mimic Human Muscular System

Researchers at MIRMI have developed a prosthetic that mimics the mechanical behavior of the human neuromuscular system. Dr. Alexander Tödtheide explains what makes it so special.



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## LAB OF THE MONTH



## MITI at the Klinikum rechts der Isar: Operating Room as a Robotics Lab

The research group for minimally invasive interdisciplinary therapeutic intervention (MITI) at the Klinikum rechts der Isar is developing robotics side by side with doctors and nurses. This allows research to move directly from the laboratory to the clinic.

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## JOB OFFERS

- [Senior Scientist](#) for Service-Robotics and Human Robot Interaction, MIRMI, TUM in Munich.
- [Senior Scientist](#) for Service-Robotics and Human Robot Interaction and Safety, MIRMI, TUM in Munich
- [Postdoctoral Researcher](#), MIRMI, TUM in Munich and Garmisch-Partenkirchen



[All job offers](#)

## EVENTS

- 13. May 2024: [ICRA 2024](#), Yokohama, Japan.
- 14. October 2024: [IROS 2024](#), Abu Dhabi, United Arab Emirates.
- 25. October 2024: [Cybathlon](#), Zürich, Switzerland.

## IN THE MEDIA



### Ingenieur.de: E-Tractor in the Field

Trucks and agricultural machinery for the era of electric vehicles: Researchers at TUM now demonstrate what a development kit for E-tractors could look like.

[Article](#)

### Süddeutsche Zeitung: AI, Open Yourself

The largest Artificial Intelligence based systems are in the hands of a few companies. An initiative aims to foster more trust with open source.

[Article](#)

### Ärztliche Anzeigen: Robotics for People with Disabilities

Artificial intelligence and robotics can assist people with disabilities. A conversation including Prof. Sami Haddadin.

[Article](#)

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