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Munich Institute of Robotics and Machine Intelligence (MIRMI)  
Technical University Munich



## NEWS ABOUT ROBOTICS AND ARTIFICIAL INTELLIGENCE



### TUM professor develops an energy-saving AI chip

Hussam Amrouch has developed an AI-ready architecture that is twice as powerful as comparable in-memory computing approaches. As reported in the journal *Nature*, the professor at the Technical University of Munich (TUM) applies a new computational paradigm using special circuits known as ferroelectric field effect transistors (FeFETs). Within a few years, this could prove useful for generative AI, deep learning algorithms and robotic applications.

[Read more](#)



### TUM student wins Hackathon

Oliver Hausdörfer won the Sick Solutions Hackathon in the Technological Excellence category. It was the 5th hackathon that the TUM student has won.

[Read more](#)



## Robotics Graduate Program

Doctoral students can now enroll in the Robotics and Artificial Intelligence Graduate Program at TUM for the first time. Registrations are now open.

[Read more](#)



## Tracing Entrepreneurial Genes

Prof. Klaus Diepold was honored as a 'Unipreneur' for his exceptional dedication to entrepreneurs. His aim: to discover entrepreneurial genes in students.

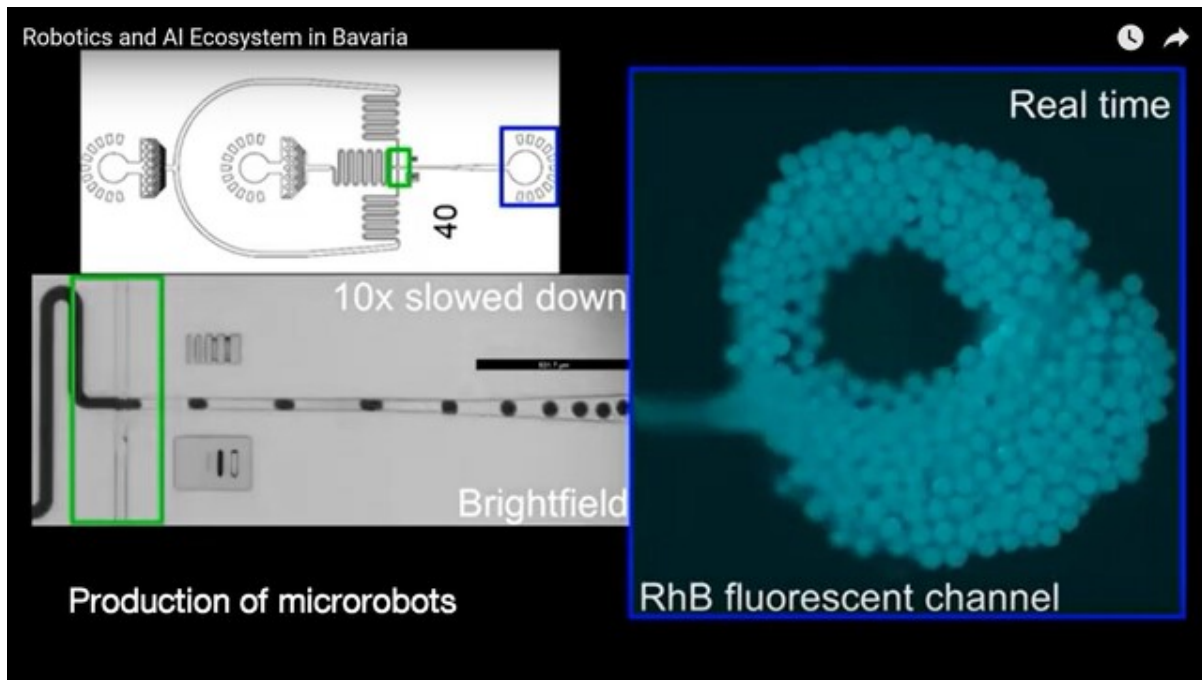
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## NUMBER OF THE MONTH

# #1

TU Munich (and thus MIRMI) currently holds the top position in the robotics category within the AIRankings between 2018 (MIRMI's foundation) and 2023. Publications and the AI Index provide the basis for this ranking.

## VIDEO OF THE MONTH



The Bavaria region is a hotspot for robotics, not least due to various robots from the Technical University (TUM) and the German Aerospace Center (DLR) such as Justin, "The Thing," the care robot GARMi, or the walking robot Lola. Learn more about the robotics and AI ecosystem in Bavaria at the link below.

[Video](#)

## PAPER OF THE MONTH

### IROS 2023: Predicting Human Movement

With the help of historical motion data, researchers are more reliably predicting where people will move. The idea of 'Maps of Dynamics' was presented by researchers from MIRMI at the robotics conference IROS 2023 in Detroit.



[Read more](#)

## LAB OF THE MONTH



## AUTOASSESS: Prof. Stefan Leutenegger with Smart Robotics Lab

In mid-October 2023, partners for the EU-funded research project AUTOASSESS, backed with nine million euros, gathered. Among them: Prof. Stefan Leutenegger with his Smart Robotics Lab.

[Read more](#)

## JOB OFFERS

- [Chief of Engineering](#), MIRMI, TUM in Munich
- [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 Garmisch-Partenkirchen



[All job offers](#)

## EVENTS

- 4. November 2023: [TEDx TUM: Simple complexity](#), Audimax TUM, Munich
- 6. to 9. November 2023: [Conference on Robot Learning CoRL 2023 in Atlanta - TUM will](#)

host CoRL 2024 in Munich!

- 10. to 15. November 2023: [CIRCULAR HACKFEST](#), Munich Urban Colab, Munich
- 18. November 2023: [Open Doors Day](#), [Geriatrics Research Center](#), Garmisch-Partenkirchen
- 05. December 2023: [Lecture Series with Prof. Dr. Wolfram Burgard \(UTN\) on "Probabilistic and Deep Learning Techniques for Robot Navigation and Automated Driving"](#), Nymphenburg Castle

[More events](#)

## IN THE MEDIA



### Lesch's Cosmos: Robots for Later

Robots can contribute to a better way of life and take over tedious tasks. Prof. Dirk Wilhelm and Prof. Achim Lilienthal discuss opportunities and risks.

[Video](#)



### SAT 1: Robotics Hub for the Environment

On land, in the air, and in the water: Mobile robots are intended to contribute to keeping the environment clean in the future. MIRMI's Executive Director Prof. Sami Haddadin explains the concept.

[Video](#)



### DLR: Moon-Mars Testing Ground

On September 26, 2023, the Robotics and Mechatronics Center of DLR in Oberpfaffenhofen inaugurated its Moon-Mars testing ground for robotic missions.

[Article](#)



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Contact to Munich Institute of Robotics and Machine Intelligence (MIRMI) of the Technical University of Munich (TUM)  
Address: Georg-Brauchle-Ring 60/62, 80992 Munich, Germany  
Internet: [www.mirmi.tum.de](http://www.mirmi.tum.de)

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