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



6-2024 NEWS ABOUT ROBOTICS AND ARTIFICIAL INTELLIGENCE



MIRMI Professors Collaborate at Siemens Technology Center

At the Siemens Technology Center (STC) on the TUM Campus Garching, TUM researchers will collaborate with Siemens to develop new robotics and AI solutions. MIRMI experts are well represented, including Prof. Angela Schoellig, Prof. Alin Albu-Schaeffer, and Prof. Sami Haddadin. TUM President Prof. Thomas Hofmann (top right) inaugurated the building.

[Read more](#)



Autonomous Ultrasound is Coming

Through studies of blood vessels, Prof. Nassir Navab has demonstrated that autonomous ultrasound is possible. The goal is to ease the burden of everyday medical practice.

[Read more](#)



How robots learn to make decisions

Majid Khadiv aims to develop robots to perform dangerous tasks like firefighting, using machine learning. Learn more in the latest episode of NewIn.

[Read More](#)



Care Robot GARMI Becomes a Universal Assistant

With the integration of ChatGPT, the care assistant GARMI now combines all its acquired skills. Now performs various tasks, examinations, and exercises on command.

[Read more](#)

NUMBER OF THE MONTH

3rd Place

With over 260 publications, TUM ranks as the most successful European university and third worldwide at the robotics conference ICRA 2024 in Yokohama, behind Carnegie Mellon and Berkeley. [More information.](#)

VIDEO OF THE MONTH



Prof. Angela Schoellig from TUM uses ChatGPT to develop drone swarm choreographies to music within minutes. A safety filter prevents collisions. This demonstrates that large language models like ChatGPT can be used in robotics.

[To the video](#)

[To the press release](#)

PAPER OF THE MONTH

ICRA 2024: Best Paper Award for MIRMI Researchers

For the paper "Energy Transfer in Elastic Joints," a MIRMI research team led by Edmundo Fortunic (second from left) and Prof. Sami Haddadin (left) received one of the 5 Best Paper Awards out of 1,200 submissions in the IEEE Robotics and Automation Letters.



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LAB OF THE MONTH



Robot Performance and Safety Center by MIRMI

Recently, experts gathered at the AI Robot Performance & Safety Center of MIRMI in Garching-Hochbrück near Munich to discuss safety and innovation in robotics. Researchers there analyze robot safety and conduct benchmark experiments.

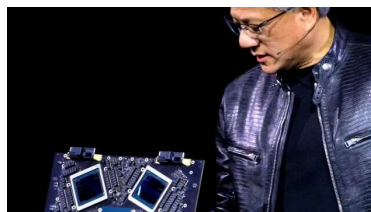
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EVENTS

- 09. July: [Geriatronics Summit](#), Garmisch-Partenkirchen
- 14. October 2024: [IROS 2024](#), Abu Dhabi, United Arab Emirates.
- 25. October 2024: [Cybathlon](#), Zürich, Switzerland.

[More events](#)

IN DEN MEDIEN



BR: How Well Can Machines Smell?

BR explores how machines recognize odors in the show "Good to Know," featuring Prof. Achim Lilienthal from MIRMI.

[To the video](#)

ZEIT: The AI Chip of the Future

Prof. Hussam Amrouch explains what the AI chip of the future will look like and assesses the latest developments.

[Article](#)

SPIEGEL: AI and Robotics

Medical ethicist Prof. Marcello lenca of TUM discusses neuroethics, especially the ethical challenges of the human-machine interface .

[Article](#)



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