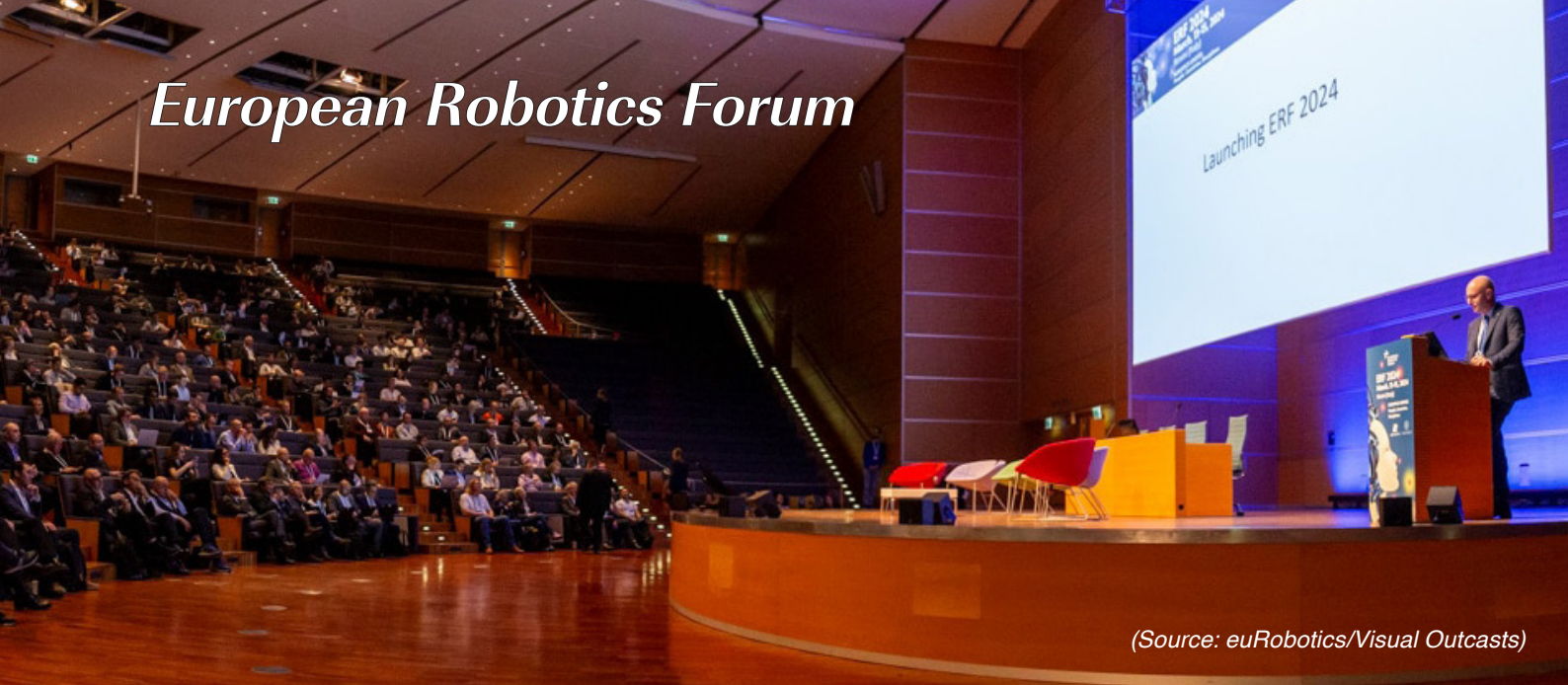


European Robotics Forum



(Source: euRobotics/Visual Outcasts)

From March 25 to 27, the European Robotics Forum (ERF) 2025, takes place in Stuttgart, Germany. Over 1300 attendees are expected. Organizer is the European robotics association euRobotics in cooperation with the Fraunhofer-Gesellschaft with its institutes IPA and IAO, the University of Stuttgart, and Cyber Valley.

For the first time in its 15 years, ERF is coming to Germany. The European robotics community meets in the Liederhalle, located in the heart of Stuttgart. ERF is an event for robotics and artificial intelligence (AI) and this year's theme is "Boosting the synergies between robotics and AI for a stronger Europe". The aim is to bring together research and industry, presenting the current state of robotics and AI. In many robots, embedded CAN-based networks are used to communicate between robot modules. Especially, drives and motion controllers are networked via CAN. CAN-connectable sensors feed the AI-based controllers navigating the robot or controlling the manipulating equipment such as grippers, etc.

"The increasing integration of robotics with artificial intelligence, cognitive systems, and machine learning holds tremendous potential for our economy and society. It is crucial for Germany and Europe to not only use these technologies but also to develop them. This is the only



An exhibition and interactive opportunities bring robotic applications to life (Source: euRobotics/Jon Agirre Ibarbia)

way we can actively set standards and secure a leading position in international competition," said Prof. Holger Hanselka, President of the Fraunhofer-Gesellschaft. "The Fraunhofer-Gesellschaft is making an important contribution by advancing these technologies while also supporting companies and SMEs (small and mid-sized enterprises) in fully exploiting the potential of service and industrial robotics. I am delighted that we are supporting the European Robotics Forum as a research partner."

ERF features a range of event formats, including keynotes, lectures, and workshops. There are more than 50 workshops with topics like application trends in industrial and service robotics, generative AI in robot programming and control, regulatory AI Act, or humanoid robots. In addition, individuals and companies can apply for several euRobotics awards, which will be presented during the event. Networking and professional exchange also play a role, which include two evening events and site visits to the regional robotic ecosystem.

Germany is the country with the highest number of euRobotics members and the highest robot density in Europe, with 429 robots per 10000 employees. This puts Germany in fourth place worldwide, with South Korea in first place with 1012 robots, according to an annual survey by the International Federation of Robotics. AI-based robotics is also a strategic cornerstone of German and European economic and science policy to tackle social challenges such as demographic change and labor shortages. An impetus for this will also come from the conference "AI-based Robotics 2025" (KIRO), which is integrated into ERF and is carried out by the German Federal Ministry of Economic Affairs (BMWK) and of Education and Research (BMBF).

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