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Team FLA²IR Wins the European Robotics Challenges

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Prize-giving event as part of the world's largest exhibition for robotics / Team FLA²IR with FZI researchers is the overall winner / Closing presentation of the finalists at the EuRoC booth (booth 417, hall B4)

UNDER EMBARGO UNTIL JUNE 19, 2018, 11 AM CEST!

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Karlsruhe, 19.06.2018 – At the European Robotics Challenges (EuRoC), team FLA²IR (Flexible Automotive Assembly with Industrial Co-Workers) prevailed against more than 100 highly qualified, international teams. For more than four years, the FZI Research Center for Information Technology, Opel Automobile GmbH and MRK-Systeme worked as project partners of team FLA²IR on the development of innovative solutions for the European manufacturing industry. On June 19, team FLA²IR was declared the winner of the European robotics challenge at Automatica in Munich. On June 20, the official award ceremony will take place on the stage of the Start-up Arena (hall B4) from 4:00 p.m. until 5:30 p.m., where the most successful concept of the challenge will be awarded.

Team FLA²IR was always at the leading positions during the course of the challenge. Re-searcher Georg Heppner, who is responsible for the project at the FZI, explains: "The FZI has developed the robot as well as the sequence control. The fact that we have achieved the EuRoC overall prize is the result of an optimum interaction of the project partners and a concept tailored to the manufacturing industry that will significantly improve the processes in companies."

During the course of the project, the FZI developed an automated robotic assembly for flexible polymer door sealings on car doors. For this purpose, an external force control was developed that can be used easily and directly also for numerous other robots as a package of the open-source robotic software ROS-Industrial. The CAD-2-PATH software is used for the simple path creation for the robot. This enables a quick adjustment to other door models and does not require any expert knowledge. The CAD-2-PATH application of the FZI was already

ranked second at the “handling award” last year.

The European Robotics Challenges are an EU project of the Framework Programme FP7 for the support of innovative robotics solutions that are application-oriented and strengthen Europe as a business location. The participating teams generally consisted of a research institute, a system integrator and an end user. In the case of team FLA²IR, these were the FZI Research Center for Information Technology as research partner, MRK-Systeme GmbH as system integrator and the Opel Automobile GmbH as end user. The project was launched on April 1, 2014, the challenge ends with the announcement of the winner on June 19, 2018, at the official press conference of Automatica in Munich.
Automatica takes place from June 19 to 22, 2018 at the exhibition centre Messe München. Team FLA²IR presents its work together with other finalists of the challenge at booth 417 in hall B4.

About the FZI Research Center for Information Technology

The FZI Research Center for Information Technology at the Karlsruhe Institute of Technology is a non-profit institution for applied research in information technology and technology transfer. Its task is to provide businesses and public institutions with the latest research findings in information technology. It also qualifies young researchers for their career in academics or business as well as self-employment. Led by professors from different faculties, research teams at the FZI interdisciplinarily develop and prototype concepts, software, hardware and system solutions for their clients. The FZI House of Living Labs provides a unique research environment for applied research. Every department at the FZI operates under a certified quality management system according to DIN EN ISO 9001:2015. The head office is in Karlsruhe.

The FZI has a branch office in Berlin.

Further Information

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Anhang

Press Release as PDF

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