

RoboCup@Work 2016

Test Competition and Development Workshop 28. April – 1. May 2016, Magdeburg, Germany

Deadline for intention to participate: February 5, 2016

The RoboCup@Work league is the youngest within the family of RoboCup challenges. It is inspired by industrial mobile manipulation scenarios and accordingly covers a large spectrum current research topics related to the Factory of the Future, Smart Production, etc. Hence, this league represents an important bridge between a research-oriented competition and potential industrial applications.

The Workshop provides an evaluation platform under competition conditions. For all RoboCup@Work teams this is especially interesting due to the large number of extensions and adjustments in the rule book. The new challenges and infrastructure components will move the league towards more realistic scenarios, and encompass in particular:

- new tasks and scenarios (round table, conveyor belt),
- additional modules of an automated referee system,
- a new interface to illustrate background information for visitors, and
- additional automated networked devices (automated doors).

The rules of RoboCup@Work 2016 as well as further technical details will be posted on the RoboCup@Work website on the January 15, 2016.

Students and researchers, who have an interest in entering the RoboCup@Work league, are invited to apply for the Workshop. All teams that intend to participate have to prepare a team POSTER (A0) and to send a digital copy to zug@ovgu.de until February 5, 2016 including:

- general information like name of the team, team members, link to the team web site and contact information and
- conceptual information regarding hardware and software, a description of current developments/research interests, including an image of the robot(s).

The RoboCup @Work TC will rank the teams according to the qualification material provided. The participation is free for all teams. Additionally, the organizers offer travel support for up to 4 teams.

The Workshop includes a presentation session in order to offer a possibility to present innovative technologies related to the league. This is a perfect platform e. g. to present and discuss the current state of ongoing (Master-) thesis projects!

The Workshop will held from April 28, 2016 (arrival of teams) until May 1, 2016. This includes one day for robot set-up and preparation (April 28), two days of public demonstration runs, tests and presentations (April 29 and 30) and one day for internal adjustments and discussions (May 1, 2016). The event will take place at MESSE MAGDEBURG co-located with the Final of the German RoboCup Junior competition.

The RoboCup@Work Test Competition and Development Workshop 2016 will be jointly organized by Sebastian Zug (University of Magdeburg, TC @Work), Nico Hochgeschwender (Bonn-Rhein-Sieg University, Exec @Work) and Ansgar Bredenfeld (Dr. Bredenfeld UG).

The event is partially supported by the RoboCup Federation, the City of Magdeburg and the Otto-von-Guericke University Magdeburg.

