

# UGM is Grand Champion of Indonesian Robot Contest 2017

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Gajah Mada Robotic Team (GMRT) has made another achievement by winning the grand championship of the *Indonesia Robot Contest (KRI) 2017*, held at Uversitas Pendidikan Indonesia from 8-9 July 2017.

The UGM teams won second place awards in five categories. In the event hosted by the Research, Technology and Higher Learning Ministry, they won the first place in Fire Extinguisher category and third place in Dancing Robot category.

In the Dancing Robot category, the GMRT team sent Al-Fan robot, a dancer humanoid that is installed with sound sensors. Manager of GMRT, Dr. Rachmat Sriwijaya, said the Al-Fan robot would dance when detecting the sounds of *Gending Sriwijaya* tunes. If the song stops, the robot will stop dancing, too.

“The Al-Fan robot has smooth motions, very dancy like real dancers,” said Dr. Rachmat on Tuesday(11/7).



The Mechanical and Industrial Engineering lecturer said in the Fire Extinguisher category, the UGM sent Al-Fatih robot. Al-Fatih earned scores of 10.233 that is almost perfect, so the error possibilities of it is very low compared to other robots.

Rachmat explained the Al-Fatih robot was designed with two sensor systems, heat sensor and motion sensor. Heat sensor acts to detect the presence of fire spots. The motion sensor detects the barriers around the robot that has the potential to prevent its tracking the fires.

“The Al-Fatih robot has quick capacity to detect fires, approaching the fire spot, extinguishing it and returning to the initial location while other robots mostly failed to return to the base,” he said.

With the win, the Al-Fatih robot is automatically entitled to represent the state to the US in the Trinity College International Robot Contest. The success is not apart from the support from Mechanical and Industrial Department, Physics Engineering Department, Electronical Engineering and Information Technology Department, and Electronics and Instrumentation Department.

“The success is not made possible without the cooperation and support from related departments and GMRT and the Student Affairs Directorate as well as university leadership,” he said.

UGM Student Affairs Director, Dr.Senawi, M.P., expressed his pride of the achievement. According to Senawi, UGM would continue to support the robot technology development. Senawi said robot was a prospective technology that can help resolve various problems.

“In principle, we will support each potential project, hopefully they not only win contests but also give benefits to the nation,” he said.

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