

Major Robot Competitions Held Worldwide

| <Field> Name of Competition | Host | Size | Outline |
|--|--|---|--|
| <Manufacturing> | | | |
| EuRoC (European Robotics Challenges) (Started in 2014. Finals to be held in 2017) | EuRoC Consortium (comprised of 9 organizations including universities, colleges, and companies) | More than 100 participating teams from Europe. After 3 stages, 6 teams go to finals. | Teams consisting of researchers, Siers, and end-users compete in 3 categories: 1) reconfigurable interactive manufacturing cell; 2) shop floor logistics and manipulation; and 3) plant inspection. |
| <Life Support> | | | |
| RoboCup@Home | Held as one of the competitions in RoboCup. | 20 teams from 10 countries and regions | Robots compete in diverse tasks around the house such as recognizing faces and names of family members and cleaning the living room. |
| <Disaster Response> | | | |
| DARPA Robotics Challenge (2015 only) | Defense Advanced Research Projects Agency (DARPA) | 23 teams from 5 countries and regions | Robots competed the time and score in completing tasks that were made with the purpose of promoting development of disaster response robots. Trials were held in 2013. |
| RoboCupRescue | Held as one of competitions in RoboCup. | Rescue Robot League : 8 teams from 6 countries and regions Simulation League : 19 teams from 9 countries and regions | Rescue Robot League : The remote operation of and the autonomy of robots were judged in representative disaster environments. Simulation League : Using a simulation software, robots virtually respond to disasters. |
| euRathlon (Held annually from 2013 to 2015. The next event will be held in 2017.) | euRathlon Project (funded by EU) | 16 teams from Europe. | An outdoor robotics challenge for land, sea and air, which could be associated with disaster response. |
| <Autonomous Driving> (for reference) | | | |
| DARPA Grand Challenge (2004, 2005) | Defense Advanced Research Projects Agency (DARPA) | Teams from the US only. 15 teams in 2004, 43 teams in 2005. | Autonomous ground vehicles raced through a course that is more than 200 km long and contains unpaved road. |
| DARPA Urban Challenge (2007) | Defense Advanced Research Projects Agency (DARPA) | 53 teams from the US only. | Autonomous ground vehicles drive through a 96km mock city environment, performing complex maneuvers such as merging, passing, parking and negotiating intersections, while complying traffic regulations of California state. |
| <Not specific to any field > (for reference) | | | |
| ABU Asia-Pacific Robot Contest (ABU Robocon) (Held annually since 2002) | Asia-Pacific Broadcasting Union (ABU) | 18 teams from 17 countries and regions | The competition topics are decided each year by the host country's ABU member broadcasters. The theme was badminton in 2015. |
| RoboSub (Held annually since 1998) | Association for Unmanned Vehicle Systems International (AUVSI) Foundation | 37 teams from 10 countries and regions | High school and university students develop underwater robots and autonomously perform realistic missions in an underwater environment. |
| RoboCup (Held annually since 1997) | The RoboCup Federation | 500 teams from 40 countries and regions | Team of fully autonomous humanoid robot soccer players compete with the goal to win a soccer game against the winner of the most recent FIFA World Cup. The contest has several leagues and subleagues such as Small Size League, Medium Size League, and Simulation League. |
| RoboGames (Held annually since 2004) | Robotics Society of America | 214 teams from 20 countries and regions | This robot competition contains more than 50 categories including micromouse, fighting, and robot-sumo. |