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Call for Contribution



**1st European Land-Robot
Trial 2006**

**15th - 18th May 2006 in
Hammelburg (Germany)**

General :

The German Army would like to invite your institution to participate in the European Land-Robot Trial 2006 (ELROB 2006). ELROB is conducted in order to provide an overview of the European state-of-the-art in the field of Unmanned Ground Vehicles (UGV), with focus on short-term realizable robot systems. With regard to available capabilities, the organisers seek to promote innovative technical approaches that will enable the operation of UGVs. The participants have to cope with predetermined tracks in urban and open terrain. Representatives of military, border patrol, special forces, police, fire brigades, and civil protection agencies from the major European countries will attend. ELROB will be accompanied with a comprehensive exhibition covering a wide variety of robotics aspects.

The event is open to participants from all European Nations. All presentations and discussions will be in English.

For further information, please see <http://www.elrob2006.org/>

Workshop themes and topics

Urban Scenario

Name: Tactical awareness in urban environment
Terrain: Urban, both outdoor and indoor
Task: Drive and explore street, detect building to explore, inspect outside of defined building, enter building, search one room (probably low light and collapsed), report results to commander.
Environment: The maximum route is no longer than 500m. It may include paved roads and unpaved roads. Examples of obstacles include ditches, berms, washboard, standing water, fire, boulders, narrow underpasses, construction equipment, concrete safety rails, power line towers, barbed wire fences, and cattle guards. In addition to the existing natural obstacles, the organisers might place obstacles (e.g. military equipment) on the route that may disable a vehicle if struck. The buildings may be practically collapsed. These obstacles must be detected and circumnavigated for a vehicle to successfully complete the route. To enter the houses and floors there will be stairs and ramps if necessary.

Open Terrain Scenario

Name: Surveillance and reconnaissance in non-urban terrain
Terrain: Outdoor, mixed countryside
Task: Drive pre-designated route, detect points of interest (static and dynamic), identify, locate and record, report results to commander, return to station in timescale.
Environment: The maximum route is no longer than 2000 meters. It may include paved roads, unpaved roads, trails, and off-road desert areas. Examples of obstacles include ditches, berms, washboard, sandy ground, standing water, fire, rocks and boulders, narrow underpasses, construction equipment, concrete safety rails, power line towers, barbed wire fences and cattle guards. In addition to the existing natural obstacles, the organisers might place obstacles (e.g. military equipment) on the route that may disable a vehicle if struck. These obstacles must be detected and circumnavigated by a vehicle to successfully complete the route. The terrain is wide enough for vehicles to bypass these obstacles if necessary.