Minesweepers
Towards a Landmine-Free World

Indoor Version


November 4 - 5, 2019

The Venetian Macao, Macau, China

landminefree.org/indoor
Explosive remnants of war (ERW) are victim-operated weapons of mass destruction in slow motion that make no distinction between friendly or enemy, children or animals. Humanitarian demining or civilian-purpose demining includes performing two main processes, namely, ERW reconnaissance and mapping and ERW clearance or disposal. Minesweepers: Towards a Landmine-free World is the first international robotic competition on humanitarian demining established in 2012. This competition aims at raising public awareness of the seriousness of landmines and Unexploded Ordnances (UXOs) contamination and fostering robotics research and its applications in the area of humanitarian demining in the world.

In this competition, each participating team builds/uses a tele-operated/autonomous unmanned ground/aerial vehicle to perform the two processes of humanitarian demining: detection and disposal. The robot must be able to search for buried and surface-laid anti-personnel landmines and UXOs. The position and the type of each detected object are visualized and overlaid on a minefield map. The detected surface landmines have to be safely displaced to a built-in container or to a designated area. The robot must be able to navigate through simulated rough terrain in an indoor arena that mimics a real minefield.