



Canadian Centre for Field Robotics

Centre for Vision Research

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The Canadian Centre for Field Robotics provides a national setting for robotics research, allowing collaboration between industry and academia on complex outdoor vehicles. It develops and tests robotic vehicles that operate on the ground, in the air and underwater.



KROY, a six-legged underwater robot, is shown operating in York University's Tait Pool. KROY can operate autonomously and can also be controlled via an underwater operator control unit. This device enables an operator-diver to communicate with the robot at depth.

AQUA 1, an earlier version of the six-legged robot shown above, has been tested in a range of different environments, including Peggy's Cove, Nova Scotia, where a field trial explored its deployment in aquaculture-related tasks.

Controlling a robot in hostile environments requires the development of appropriate technology. The AQUATablet, a novel human-robot communication device developed in the lab, allows divers to safely operate robots.



Working in collaboration with MDA, the RCMP and a number of other police forces, we are developing tools that can collect and manipulate 3D datasets of contaminated crime scenes and similar environments.

