



ACM-R5

AMPHIBIOUS SNAKE-LIKE ROBOT

ACM-R5 is a snake-like robot with extra dust sealing, waterproofing and a rigid structure that allows operation in dry conditions, as well as in environments with dust, water or other liquids. It is composed of several modules with small passive wheels that enable the robot to move smoothly on flat or rough surfaces.

ACM-R5 can also move sinuously in underwater environments. The front unit is equipped with a wireless camera, mounted on a special mechanism that keeps the view orientation always stable.

Whether the objective is research on amphibious locomotion, development of underwater applications, or inspection in extreme environments, ACM-R5 delivers reliable imaging and flexible mobility adapted to the present conditions.

Developed in cooperation with:

TOKYO TECH
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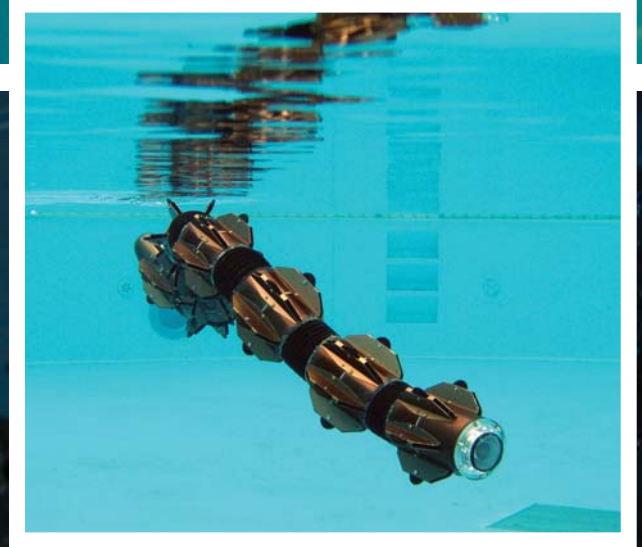
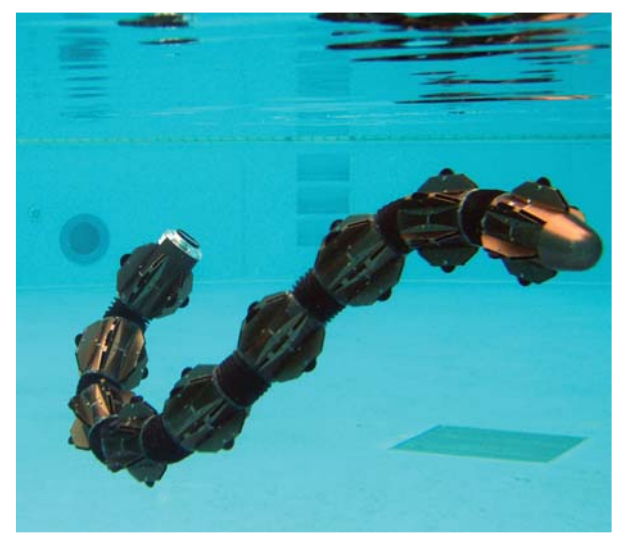
Tokyo Institute of Technology



New Energy and Industrial Technology
Development Organization



ACM-R5

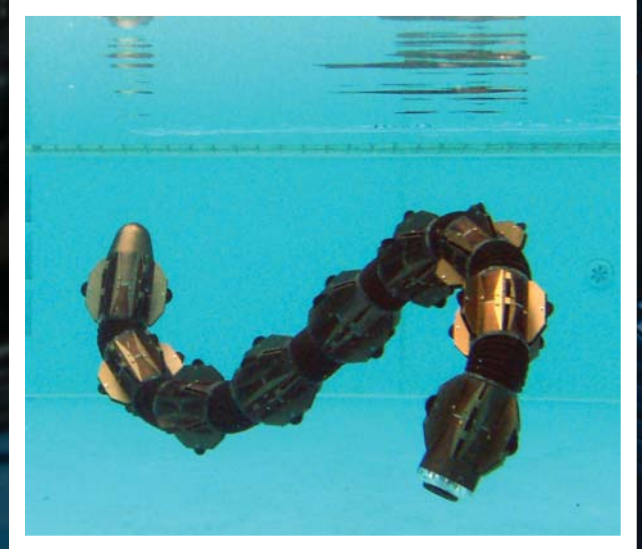


Mechanism

Module dimensions: $\phi 80\text{mm} \times 170\text{mm}$
Length: depends on number of modules connected (1.75m for 9 modules)
Degrees of freedom: 2 per module
Mass: 800g / module (7.95kg for 9 modules)
Maximum torque of joint: 9Nm
Maximum speed of joint: 70 deg/s

Sensing and Control

Video camera: 1, mounted on head module
Other sensors: installed per request
Potentiometer: 2 in each joint, for position control
Communication between modules: CAN Bus
Communication between robot and controller: Wireless LAN



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