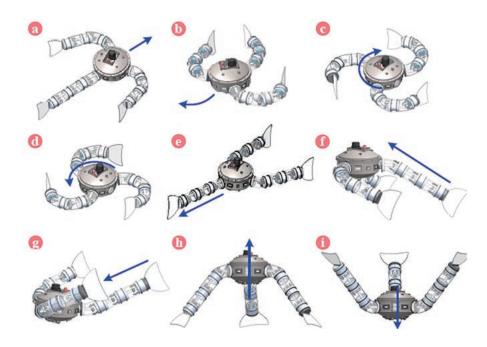
BIO-INSPIRED MULTI-TAIL OMNI-DIRECTIONAL UNDERWATER ROBOT - BIOMOUBOT

Dr. JING Xingjian, Associate Professor, Department of Mechanical Engineering

With a bio-inspired approach, this new-generation underwater robot is innovatively designed by mimicking tadpoles, snakes and octopus with a round head and three or more snake-like tails. The robot can thus mimic different aquatic animal motions like a tadpole, octopus or frog and achieve high omni-directional motion capability in underwater environments. As such, it can be applied in many different underwater missions, such as underwater infrastructure inspection, aquatic animal tracking, coral reef studies and water quality monitoring.

NOVEL FEATURES

- * Capable of diving into or suspending in water without a buoyancy mechanism, turning without a turning radius, and even moving on semi-water environment
- * Its motion produces no engine noise at all











Mr Heyson Young



heyson.young@polyu.edu.hk



(852) 3400 2892



