

## Snake robot based on McKibben Pneumatic Artificial Muscles

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*Abstract:* This paper presents novel design of a snake robot based on McKibben Pneumatic Artificial Muscles. The construction is created of serially connected McKibben PAMs in order to create long muscle line, which can be instantly inflated with compressed air. The innovative construction allows an achievement of efficient snake-type movement beside of the robot length. This pneumatically-driven robot features a long range and a much smaller diameter than conventional solutions, enabling control by an external control system. The paper shows construction and research results of McKibben snake robot.

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