

# ADVANCED INTELLIGENT SYSTEMS

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## BIOHYBRID WALKERS

In article number 2000237, Rashid Bashir, Mattia Gazzola, and co-workers present a maneuverable dual-ring biohybrid walker designed and selected through a systematic approach based on modeling, simulation, and fabrication. This dual-ring biobot consists of two tissue-engineered muscle ring actuators and a 3D-printed four-legged scaffold asymmetric in the fore/aft direction. The integration of two independent muscles on a flexible body, combined with external electrical stimulation, provides the dual-ring biobot with directional walking and rotational steering abilities.