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Legged Robots That Balance Artificial

Legged Robots That Balance is fifteenth in the Artificial Intelligence Series, edited by Patrick Winston and Michael Brady. This book, by a leading authority on legged locomotion, presents exciting engineering and science, along with fascinating implications for theories of human motor control.

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It lays fundamental groundwork in legged locomotion, one of the least developed areas of robotics, addressing the possibility of building useful legged robots that run and balance. The book describes the study of physical machines that run and balance on just one leg, including analysis, computer simulation, and laboratory experiments.

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Legged Robots That Balance | Semantic Scholar

The team engineered the robot as simply a torso and two legs, and designed the system specifically to test lower-body tasks, such as locomotion and balance. As with its full-body counterpart, Little HERMES is designed for teleoperation, with an operator suited up in a vest to control the robot's actions.

Two-legged robot mimics human balance while running and ...

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Locomotion over different terrain types, whether flat or uneven, is very important for a wide range of service operations in robotics. Potential applications range from surveillance, rescue, or hospital assistance. Wheeled-legged hexapod robots have been designed to solve these locomotion tasks. Given the wide range of feasible operations, one of the key operation planning issues is related to ...

Static Balancing of Wheeled-legged Hexapod Robots

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Line Walking and Balancing for Legged Robots with Point Feet Carlos Gonzalez 1, Victor Barasuol , Marco Frigerio2, Roy Featherstone3, Darwin G. Caldwell13, Claudio Semini1 Abstract—The ability of legged systems to traverse highly-constrained environments depends by and large on the performance of their motion and balance controllers. This paper

Line Walking and Balancing for Legged Robots with Point Feet

Two-legged robot mimics human balance while running and jumping. 6. November 2019. Worldwide Spending on Artificial Intelligence Is Expected to Double in Four Years, Reaching \$110 Billion in 2024, According to New IDC Spending Guide - Business Wire ... MC.AI - Aggregated news about artificial intelligence.

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