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Legged Robots That Balance : Marc H. Raibert : 9780262681193

It uses sensors in its body and legs to balance and LIDAR and stereo sensors in its head to avoid obstacles, assess the terrain, help with navigation and manipulate objects. ... 9 Advanced Robots

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Legged Robots That Balance Artificial
Legged Robots That Balance (Artificial
Intelligence) Hardcover – March 26, 1986
by Marc Raibert (Author)

Legged Robots That Balance (Artificial
Intelligence): Marc ...

His studies focus on the central issues of balance and dynamic control, while avoiding several problems that have dominated previous research on legged machines. Legged Robots That Balance is fifteenth in the Artificial Intelligence Series, edited by Patrick Winston and Michael Brady.

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An Overview of Legged Robots - Semantic Scholar

The robot proceeds autonomously from these points on, without help from a person. A camera in the hand finds the door handle, cameras on the body determine if the door is open or closed and ...

Legged Robots That Balance (Artificial Intelligence Series ...

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.

Amazon.com: Customer reviews: Legged Robots That Balance ...

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Engineers have developed a method to control balance in a two-legged, teleoperated robot -- an essential step toward enabling a humanoid to carry out high-impact tasks in challenging environments.

Legged Robots that Balance - Marc H. Raibert - Google Books

Scientific American spotlights how MIT researchers have developed a new control method that enables a two-legged human-controlled robot to maintain its balance while responding quickly to the operator's movements. The robot, which is dubbed Little HERMES, "combines the strength and resilience of a robot with the knowledge and adaptability of a human."

Legged Robots That Balance - IEEE
Journals & Magazine

BigDog climbs in the woods, keeps its

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balance when kicked and when slipping on ice, travels through snow and mud, jogs 5 mph, and climbs some rubble.

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ROBOTS OF THE FUTURE!

ARTIFICIAL INTELLIGENCE 2018

Reviewer: Giuseppina Carla Gini This book is really unique in the robotics literature in that it presents, in a unified framework, the problems of designing, modeling, and experimenting with legged robots, a very underdeveloped field in robotics.

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We have built a series of legged robots for

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experiments on active balance in dynamic legged locomotion. Taken collectively, these robots have traversed simple paths, run with several different gaits (hop, run, trot, pace, bound), run fast (13 mph), jumped over obstacles, controlled step length, climbed a simplified stairway, walked over ramps, and performed rudimentary gymnastic maneuvers.

MIT Leg Laboratory

This quadruped, completed in 1966, was the first legged robot to move autonomously under computer control and with electrical actuation. Each leg had two degrees of freedom (dof), being each of its joints actuated through an electrical motor (with external power) and a speed reducer.

BigDog Overview (Updated March 2010)
Legged Robots That Balance. His studies

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focus on the central issues of balance and dynamic control, while avoiding several problems that have dominated previous research on legged machines. Legged Robots That Balance is fifteenth in the Artificial Intelligence Series, edited by Patrick Winston and Michael Brady.

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

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Legged Robots That Balance | The MIT Press

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