Thanks Flavie, to make the transition to the article.

On the article "Humanoid Path Planning for Rough Terrain Navigation" presents a trajectory planning approach for humanoid robots to navigate in difficult environments. This approach is a path planner to a balance controller and step planner to allow a robot-like Atlas to move through challenging terrain in a fluid and natural way.

The path planner uses the A* algorithm (based on Dijkstra algorithm) to find an optimal trajectory through difficult to the distribution of the planner uses a height map the state of the sain and calculates the costs to avoid hard-to-cross areas, as a minimize the amount of energy required for movement. The seats is a minimize the amount of energy required for movement. The seats is the path planner are then used to track the path calculated by the path planner. The step planner uses a map of flat regions to determine the best fulcrum points for each step of the robot. This map is generated from a high-resolution point cloud and the path planner path of the step planner are uses the A* algorithm to find the best step sequence to follow the path planner path of the step planner are uses the A* algorithm to find the best step sequence to follow the path planner path of the step planner are uses the A* algorithm to find the best step sequence to follow the path planner path of the step planner are uses the A* algorithm to find the best step sequence to follow the path planner path of the step planner are the path of the sequence to follow the path planner path of the step planner are path of the step plann

So, we can note that the robot will not try to jump over the stairs (as in example A and C) or to step over an obstacle (as in example B), because it would be too expensive in energy. Instead, he uses the

the ground

results show that the proposed path planning allows the robot to move through the results show that the proposed path planning allows the robot to move through the remain in a fluid and natural way. However, it should be noted that the A* algorithm can sometimes encounter "dead end" problems, where the planner spends a lot of time looking for a trajectory to improve the planner spends a lot of time looking a series of simplified metrics to improve the planning.

To conclude, the article trajectory planning approach represents significant advance in the field of challenging terrain robotic navigation. The results obtained on the Atlas robot demonstrations approach feasibility and suggest research avenues to improve trajectory planning in risky terrain for the Atlas robot demonstration.

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(Video)

Thank you for listening. Do you have any questions?

environment has its advantage, as shown in example D.