

METHOD OF CONTROLLING MOVEMENT OF HYBRID ROBOT AND ANIMAL LOCOMOTION STIMULATION SYSTEM THEREOF

Abstract

A method of controlling a movement of a hybrid robot including a locomotion stimulation device carried by an animal includes monitoring, via a positioning component the locomotion stimulation device, a position and an orientation of the hybrid robot; providing, via a stimulator of the locomotion stimulation device, a stimulus to the animal based on an angular difference between the orientation with respect to a direct path from the position to a predetermined destination to control the movement of the hybrid robot; monitoring, via the positioning component, one or a combination of a displacement, a velocity or an acceleration of the hybrid robot in response to the stimulus; ceasing provision of the stimulus to the animal in response to the one or the combination of the displacement, the velocity or the acceleration being below a corresponding pre-defined minimum so as to allow the animal to roam freely.

FIG. 4