

Locomotion

Energy Efficiency of Robot Locomotion Increases Proportional to Weight

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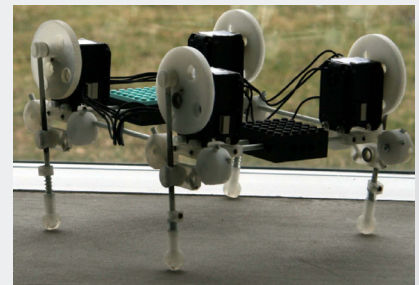
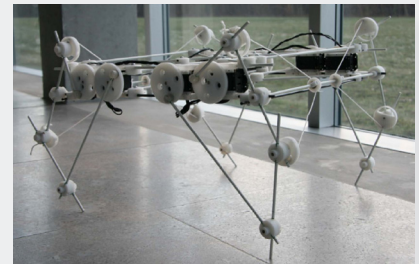
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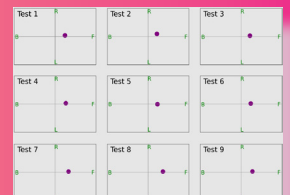
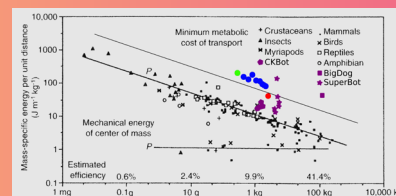
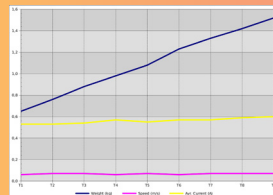
LOCO MOTION

ENERGY EFFICIENCY
OF ROBOT LOCOMOTION INCREASES
PROPORTIONAL TO WEIGHT

- The goal of the Locomorph project is to create novel walking robots able to walk dynamically and run in unknown terrain in part by exploiting morphology and morphosis.
- LocoKit - A heterogeneous modular robotic construction kit for creating dynamically walking robots.
- Experiments using LocoKit show that the placement of the centre of mass (COM) is vital to the walking performance of the robot.
- Robots built with different morphology have comparable performances in terms of energy efficiency.



Experiments:



The Locomorph project is funded by the FET Proactive 'Embodied Intelligence' Initiative within the Information and Communication Technologies (ICT) Work Programme, under the Seventh Framework Program (FP7) of the European Union. The project duration is four years, starting from February 2009. The consortium consists of six universities in five countries.

<http://locomorph.eu/>