

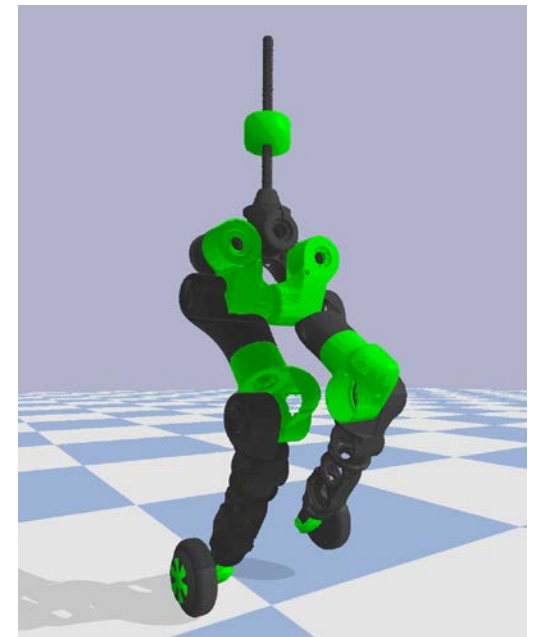
Online Dynamic Motion Planning and Control for Wheeled Biped Robots

Songyan Xin^{1,2}, Sethu Vijayakumar¹,

¹University of Edinburgh, United Kingdom

²AIRS-CUHK(Shenzhen), China

- Wheeled-legged robots combine the efficiency of wheeled robots and the versatility of legged robots.
- Cart-Linear Inverted Pendulum Model (Cart-LIPM) is proposed to generate rolling motion.
- Hybrid motion is generated by combining rolling motion in sagittal plane and walking motion in frontal plane.



Wheeled biped robot in hybrid locomotion.