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Séminaire ISIR

Masato IDHIKAWA

Vendredi 19 Octobre 2012 à 11h

Campus Jussieu, 4 place Jussieu, Paris
Salle de reunion H20, Pyramide ISIR

Title: Locomotion Induced by Rocking and Rolling: biped, triped and quadruped

Abstract: In this talk, we deal with automatic emergence of walking locomotion induced by oscillatory rocking of rigid bodies. We begin with quasi-passive biped walking driven by its lateral rocking, followed by the novel "tripedal" walking robot whose driving force is also the 2-DOF (pitch and yaw) oscillation of the upper body. Finally we talk about quasi-passive quadruped walking robot with spherical feet, followed by its mathematical analysis using nonholonomic kinematic model.

Web site: http://www-dsc.mech.eng.osaka-u.ac.jp/ishikawa/index_e.html

Sous la co-tutelle de