

From human locomotion to humanoid locomotion

Justin Carpentier

LAAS, Toulouse, France

In this talk, we first focus on the establishment of a centre of locomotion among human beings. This centre of locomotion is related to the notion of invariance inside the whole process of locomotion. We then show how to exploit this relative new concept in order to compute locomotive trajectories in the context of humanoid robots. Several real experiments on the HRP-2 robot conclude the talk.