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SOUTENANCE DE THÈSE DE YIN CHENGXIN

Yin CHENGXIN soutiendra sa thèse le 24 novembre matin (salle CASIMIR).

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Brief Abstract: My PhD work focuses on developing a methodology on design of the robotic mobility-aid. The main goal is to help the designer to propose the robotic solutions to assist the disabled persons. First, we applied the neuromusculoskeletal modeling and motion-tracking simulation to build the human subject as well as the robotic exoskeleton. Second, predictive simulations can solve the 'what-if' studies that can be used to evaluate the novel movements and adaptions to di erent conditions. Our methods have been validated via a case-study of the human-ESTA system. Results show that our methodology is promising and allowed to specify the human movement for a given task.