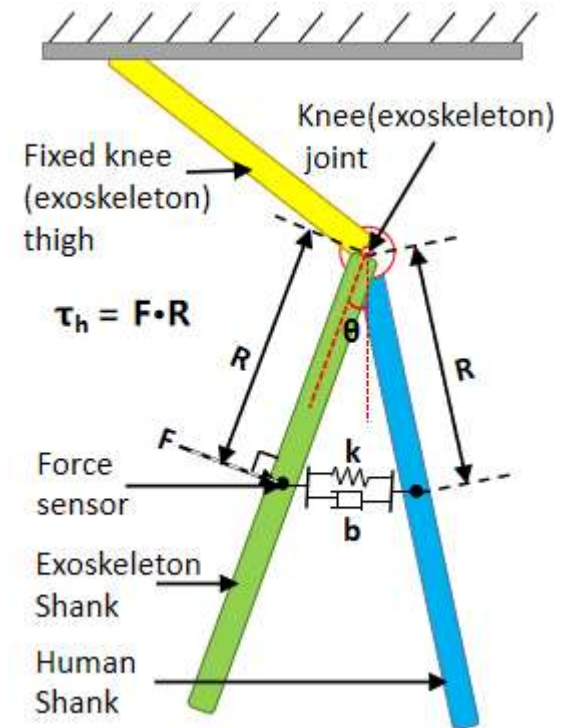# Adaptive Admittance Control of Human-Exoskeleton System Using RNN Optimization

Pengchen Lian, Yong He, Yue Ma, Jingshuai Liu and Xinyu Wu

Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China

- A new adaptive admittance control law is proposed, which provides a harmonious human-exoskeleton interaction.

- The proposed admittance control law is further optimized by Jordan Recurrent Neural Network(JRNN).

- Compared with fixed admittance control, the proposed method significantly improves the interaction level.

Human-exoskeleton interaction model