

Evolving Gaussian Process based Learning of Knee Angle and Velocity

Jiantao Yang¹, Yong He², Chen He¹, and Ping Shi^{1*}

1. Institute of Rehabilitation Engineering and Technology, University of Shanghai for Science and Technology, China

2. CAS Key Laboratory of Human-Machine Intelligence-Synergy Systems, Shenzhen Institutes of Advanced Technology, China

- Dependent Gaussian process is established to fuse multi-source information from each of the human-exoskeleton subsystems.
- Gradient estimation model is then performed to obtain the joint velocity.
- The proposed model can achieve joint angle and velocity learning without velocity measurement .

