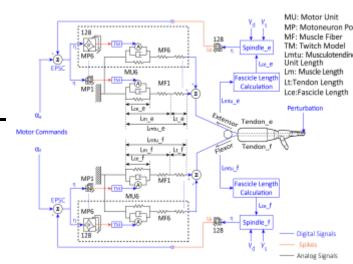
An Integrated Virtual Hand Platform for Evaluation of Model-Based Control of Hand Prosthesis

Zhuo-Zhi Zhang, Jie Zhang, Chuan-Xin M. Niu, and Ning Lan Laboratory of NeuroRehabilitation Engineering, School of Biomedical Engineering, Shanghai Jiao Tong University, China

- Integrate the neuromorphic model of muscles with the ETS-based sensory feedback in the virtual hand platform.
- Explore the compliant properties of the modelbased biomimetic control system using the tendon-driven virtual hand.
- The control mode of the biomimetic controller was automatic switched depending on the external load conditions.



Detailed architecture of the model-based controller.