

## **Description of Additional Supplementary Files**

File Name: Supplementary Video 1

Description: Marker-to-marker translation.

File Name: Supplementary Video 2

Description: Force prediction performance tested with ATI nano17.

File Name: Supplementary Video 3

Description: Dynamic force test compared with ATI nano17.

File Name: Supplementary Video 4

Description: Daily objects grasping with heterogeneous sensors (1).

File Name: Supplementary Video 5

Description: Daily objects grasping with heterogeneous sensors (2).

File Name: Supplementary Video 6

Description: Slip detection and compensation with single-sensor control.

File Name: Supplementary Video 7

Description: Slip detection and compensation with multi-sensor coordination.