

INTERACTION – INPUT (N=116)	Trajectory (N=25)	Two-dimensional Tracking (N=13)	Three-dimensional Tracking (N=8)	Hand Pose Tracking (N=3)					
	One-dimensional Tracking (N=3)	<ul style="list-style-type: none"> Electric field sensing IMU Proximity sensor Infrared signal 	<ul style="list-style-type: none"> Magnetometer + Magnetic Active acoustic sensing 	<ul style="list-style-type: none"> Electric field sensing Active acoustic sensing IMU 					
	Gesture (N=66)	<p>Used sensor type:</p> <ul style="list-style-type: none"> Inertial sensing: Accelerometer, Gyroscope, Magnetometer Electric field sensing Acoustic: Microphone + Speaker Vibration: Microphone + Vibrator, Accelerometer + Transducer Optical: Proximity sensor, Camera Magnetic: Magnetometer + Magnetic 							
OUTPUT (N=29)	Within-hand Gesture (N=26)	Manipulating Ring (N=19) <ul style="list-style-type: none"> Button Touchpad Pressure sensor 							
	Hand-to-body Gesture (N=6)	Discrete Manipulate (N=15) <ul style="list-style-type: none"> Button Touchpad Pressure sensor 							
PASSIVE SENSING – IN-BODY FEATURE (N=46)	Hand-to-surface Gesture (N=9)	Sign Language Recognition (N=5)	Continuous Manipulate (N=4)	Enhancing Human Perception (N=3)					
	Hand-to-object Gesture (N=5)	<ul style="list-style-type: none"> IMU Proximity sensor Displacement sensor 	<ul style="list-style-type: none"> Magnetometer + Magnetic IMU Capacitive touch sensor 	<p>Sensor → Output (ability):</p> <ul style="list-style-type: none"> Microscope → Visual Force sensor → Friction force feedback 					
Haptic (N=26)	Communication (N=3)	Notification (N=14)	Poke	Activity Recognition (N=8)					
	<ul style="list-style-type: none"> Vibration Color light 	<ul style="list-style-type: none"> Vibration Skin-dragging Electric <ul style="list-style-type: none"> Poke Light Audio Heat 		Full-body Activity (N=2) <ul style="list-style-type: none"> IMU Hand Activity (N=8) <ul style="list-style-type: none"> IMU Magnetometer + magnetic 					
Physiological Sensing (N=18)	Blood Oxygen (N=2)	Exercise (N=1)	Fitness Tracking (N=3)	Environment Recognition (N=7)					
	Heart Rate (N=9) <ul style="list-style-type: none"> PPG ECG 	Blood Pressure (N=6) <ul style="list-style-type: none"> Oscillometric PPG Bio-impedance 	Bio-Impedance (N=3) <ul style="list-style-type: none"> Impedance 	Stress (N=1) <ul style="list-style-type: none"> EDA 	Exercise (N=1) <ul style="list-style-type: none"> PPG 	Nerve (N=1) <ul style="list-style-type: none"> Impedance 	<ul style="list-style-type: none"> IMU Magnetometer + magnetic 	Urodynamics (N=1) <ul style="list-style-type: none"> Doppler ultrasound sensor 	Full-body Activity (N=2) <ul style="list-style-type: none"> IMU
Health Tracking (N=17)	Sleep (N=11)	Grip Force (N=2)	Authentication (N=9)	Cross-device Authentication (N=2)					
	<ul style="list-style-type: none"> Oura Ring (PPG, IMU, temperature) 	<ul style="list-style-type: none"> RingConn Wellue O2 ring (PPG) 	<ul style="list-style-type: none"> EDAs 	Behavioral Biometric Authentication (N=2) <ul style="list-style-type: none"> IMU 	Key-based Authentication (N=5) <ul style="list-style-type: none"> IMU 	Cross-device Authentication (N=2) <ul style="list-style-type: none"> IMU 			
Diagnoses and Treatment (N=13)	COVID (N=4)	Urodynamics (N=1)	Environment Information Detection (N=1)						
	<ul style="list-style-type: none"> Oura Ring 	<ul style="list-style-type: none"> Doppler ultrasound sensor 	<ul style="list-style-type: none"> Laser sensing 						
Biometric Authentication (N=2)	Sleep Apnea (N=3)	Grip Force (N=2)							
	<ul style="list-style-type: none"> RingConn Wellue O2 ring (PPG) 	<ul style="list-style-type: none"> Camera Laser sensing 							