

## CRONOS-2024 AREA 1 (PO:NAKAO)

R&D Project Title: Body-linked Interaction Platform

Principal Investigator:

Seiichiro Katsura (Professor, Department of System Design Engineering, Keio University)



## Grand Challenge and Goal:

Developing fundamental technologies to attain "Body-linked Interaction" that connects bodies, and creating new forms of communication and services through information and communications

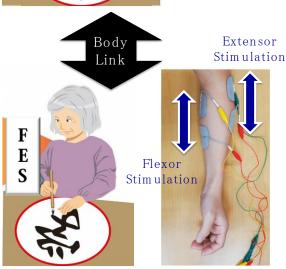
## Summary:

- Developing hardware and software integration technology for a new interaction platform called "Body Link" using FES as an interface
- Developing a motion sensing platform to realize direct body drive through FES
- Developing a high-speed current generator based on FPGA
- Developing a two-degree-of-freedom communication control system that robustly transmits velocity and force control
- Developing a system for increasing the degree of freedom
- Pioneering applications for creating next-generation communication using "Body Links," such as rehabilitation and transferring skills

## Social Impact:

• The "Body Link" interaction platform will not only handle visual and auditory multimedia data, but also connect the body to others in remote locations and enable sharing, which will have a huge impact on society as a whole.





Functional Electrical Stimulation (FES)