


Assistive Technology for Supporting Education and Living for People with Disabilities		
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Research Topics

- Assistive technology for education of children with severe physical disabilities
- Support system for communication development of children with severe physical disabilities

Research Seeds

- ◇ Assistive devices to support education for children with severe physical disabilities

We are developing devices (mainly using microcontrollers) and software to support educational and learning activities at schools for special needs education for children with severe physical disabilities. Figure 1 shows devices supporting the switch activity developed to date. These are provided as kits.



(a) (b)
Fig. 1 Developed AT apparatus.
(a) Switch Latch and Timer
(b) Switch IR learning remote controller

- ◇ Online communication-development-support system for children with severe physical disabilities

For children with severe physical disabilities who can not speak, early communication development support is necessary. We are developing a communication development support system aimed at supporting communication using a communication aide. Figure 2 shows the system overview. The system consists of training contents and a visualization system for learning outcomes. This collaborative research is conducted along with a speech-language-hearing therapist.



Fig. 2 Communication development support system for children with severe physical disabilities.

Related Technology