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A development of a new e-book with a physical paging manipulation function

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Key word: Physical paging, sensor, turning over operation, and interface.

The present study develops the sensing device that achieves physical paging operation to solve the operative problem in existing electronic book reader.

Recently, the electronic book reader with a good portability where a large amount of electronic books can be preserved becomes popular. The electronic book reader like IPAD, Kindle (generation 1, generation 2, DX, generation 3), IRIVER and LIBRIE are getting into new, and they are also popular articles in Internet. Each of the commodities has their own advantages. Beautiful character representation ,thin, light, operation by one hand ,dictionary function ,the voice can be reproduced ,the bookmark can be placed ,for longhand and the read posture is free ,it is possible to connect with the Internet.

However, attention in the operative of the electronic book reader is insufficient. Flexibility and simplicity of the paging operation are lost.

Also there are many researches that have done something to improve the reading experience.

The aim of the present study is to develop the sensing device that enables the physical paging operation in the electronic book reader.

We constructed a system that can synchronize with a visual paging expression by perceiving transparent sheet and magnetism sensor on an existing electronic book reader. As a result, readabilities of sentences from the electronic book reader are expected to be improved. And at last we did an experiment to check the usefulness.