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# A development of Smart Dustbin prompts to moral improvement

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An increase in the amount of waste is seen as a problem mainly in developed countries as a cause of serious environmental problems. In Japan, a number of problems have been caused by an increasing amount of waste. Therefore, the need to reduce waste generation in Japan has been advocated.

Previous studies have been trying to reduce the generation of waste by focusing on the stage of purchase and storage of goods. However, there is a problem that cannot be expected like spontaneous waste reduction because consciousness is not facing up to the situation. For that reason, so that each person directs their consciousness to disposal, there is a need to prompt for moral improvement. In this study, we are focusing on the disposal stage, by proposing a Smart Dustbin to visualize the amount of waste. In addition, we carried out a preliminary investigation about the visualization of the waste amount appropriate to improve moral, and what techniques might be a proper visualization of the amount of waste.

In the preliminary investigation, I carried out the presentation of the amount of waste in three different ways over a period of about 2 weeks to 15 subject peoples. Then, we conducted interview, in order to clarify the usefulness of visualization of the amount of waste as well as effective visualization techniques.

Finally, I built a Smart Dustbin system and showed how our proposal system can be implemented.