















Fig. 10 An error in which a grasped object is crushed by colliding with a board

yet been developed. We proposed error recovery using task stratification and error classification. In this paper, we described the recovery process carried out after the judgment of error in detail. In particular, we explained how to change the parameters that express various conditions in planning, modeling, and sensing errors when recovery is performed. Then, we changed the process of error recovery based on the size of an error. The technique was derived based on task stratification. If an error is large, the recovery process may move to a higher layer. This implies returning to the previous step. Our recovery method can be applied to various sizes of errors. We explained the possibility of applying AI techniques, such as deep learning, to error recovery. Abundant available data on error recovery contribute to the usefulness of AI. Future studies will include the application of our method to an actual system. Moreover, in error recovery using AI, we will study a technique of modifying system parameters in the case of a small error and a method of constructing the re-execution task in the case of a large error.

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