

構造データ生成のためのニューラルネットワーク構造の解析
Analysis of Neural Network Architectures for Generation of Structured Data

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研究成果概要

In this study, we used the supercomputer system of the Institute for Chemical Research, Kyoto University, to conduct preliminary experiments on our codes designed to generate similar graphs. Initially, we ran our code on the laboratory server, where it was able to generate graphs with up to $n=60$ vertices. However, for larger values of n , we encountered memory limitations, which were not sufficient for our research objectives.

To address this issue, we executed the code on the supercomputer in an attempt to handle larger graph sizes. However, we were still unable to achieve the desired performance. Consequently, we decided to improve the implementation of our Python code. After optimizing and restructuring several components, we successfully increased the capability of our code to handle graphs with up to $n=1400$ vertices on the laboratory server.

Therefore, we no longer require the use of the supercomputer for this task.