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Illustration Recommendation and Adjustable Grid Based Reproduction Practice Support System

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In recent years, the proliferation of digital devices has led to a growing number of self-taught digital illustrators. However, there are limited resources available to support beginners in their digital illustration practice. Observation is a crucial aspect of reproduction, which is often used in illustration practice. While many existing reproduction support systems provide guidance by displaying the results of observation, few support the observation process itself.

To address this issue, we propose a framework for reproduction practice support that incorporates a variable grid system for copying and the recommendation of reference illustrations based on rough sketches. Our system takes a rough sketch drawn by the user as input and presents similar illustrations with similar feature values as candidates from the dataset. The user can then select their preferred illustration and reproduce it using a reproduction interface that allows them to adjust the fineness of the grid. The results of our evaluation experiments and a questionnaire survey confirm the effectiveness of the system in supporting the practice of reproduction.