Abstract

Many routine formatting tasks are subject to patterns. This is especially true of formatting actions performed by users in Excel. Excel has built-in functionality to perform some of these tasks, however their application requires the user to explicitly define logical rules. We show that by using interactive machine learning techniques, such patterns can be learned automatically by iteratively analyzing actions as they are performed by the user. This decreases the amount of work required of the user, and eliminates the necessity of explicitly defining logical rules. Our results show that many useful formatting patterns can be learned with only a few examples.

Index Terms

Computer Science
Information Sciences

Keywords

Formatting by Demonstration Automatic Task Completion Interactive Machine
Formatting by Demonstration: An Interactive Machine Learning Approach

Learning

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