

# Mining Mistakes from Evaluation Tests Data - From Software Platform to Mathematical Model

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Data gathered from evaluation test papers can be [1],[2] subjected to data association analysis and association rules can be extracted. These represent patterns of mistakes and the rationale is that when a student mistakes some of the items from the frequent item set of an association rule, there is a computable chance [3] that the student will also mistake the rest of the items from that particular item set.

The goal of this paper is to present both a software platform concept and its corresponding mathematical model of mining mistakes from evaluation test papers. One particular item from the test papers can belong to several frequent item sets with a variable and computable membership degree. The software platform will aid in the actual implementation of various algorithms that can be compared with respect to data processing, while the mathematical model will add a layer of abstractness in order to go beyond the implementation details.

## References

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