Component selection based on fuzzy clustering analysis

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ABSTRACT.

Component Based Software Engineering (CBSE) is concerned with the assembly of pre-existing software components. Component selection is a crucial problem in CBSE.
The problem of selecting the best candidate from a set of available components is discussed in this paper. Fuzzy clustering analysis is used to classify the components into different groups based on the values of metrics that measure different attributes of the components. The choice of the best component is based on the obtained classifications.

1. ACKNOWLEDGEMENT

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