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#10995 Summary

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Submission

Authors Arbi Haza Nasution, Yohei Murakami, Toru Ishida
Title Generating similarity cluster of Indonesian languages with semi-supervised clustering
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[10995-14657-1-SP.PDF](#) 2018-01-11
[10995-14658-1-SP.PDF](#) 2018-01-11
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Submission Metadata

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Title and Abstract

Title Generating similarity cluster of Indonesian languages with semi-supervised clustering
Abstract Lexicostatic and language similarity clusters are useful for computational linguistic researches that depends on language similarity or cognate recognition. Nevertheless, there are no published lexicostatic/language similarity cluster of Indonesian ethnic languages available. We formulate an approach of creating language similarity clusters by utilizing ASJP database to generate the language similarity matrix, then generate the hierarchical clusters with complete linkage and mean linkage clustering, and further extract two stable clusters with high language similarities. We introduced an extended k-means clustering semi-supervised learning to evaluate the stability level of the hierarchical stable clusters being grouped together despite of changing the number of cluster. The higher the number of the trial, the more likely we can distinctly find the two hierarchical stable clusters in the generated k-clusters. However, for all five experiments, the stability level of the two hierarchical stable clusters is the highest on 5 clusters. Therefore, we take the 5 clusters as the best clusters of Indonesian ethnic languages. Finally, we plot the generated 5 clusters to a geographical map.

Indexing

Academic discipline and sub-disciplines Computer and Informatics; Computational Linguistics; Artificial Intelligence
Keywords lexicostatic, language similarity, hierarchical clustering, k-means clustering, semi-supervised clustering
Language en

Supporting Agencies

Agencies Japan Society for the Promotion of Science (JSPS); Indonesia Endowment Fund for Education (LPDP)

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References

References —

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#10995 Review

SUMMARY **REVIEW** EDITING

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Title Generating similarity cluster of Indonesian languages with semi-supervised clustering

Section Computer Science and Information Technology

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Editor Decision

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