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Matching Ukrainian Red Links with English Wikipedia's Articles



https://github.com/Katerali/redlinks_linking



<https://doi.org/10.6084/m9.figshare.11550774>

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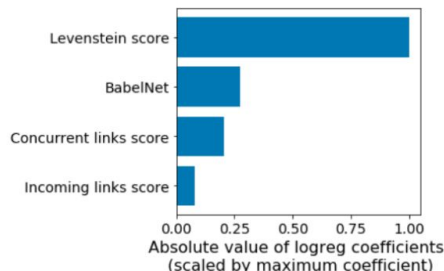
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Results & Contribution

Similarity metrics	fp	tn	tp	fn	P	R	F ₁
BabelNet	4	65	108	456	0.964	0.191	0.32
Incoming links (top1, th=0.26)	385	149	64	37	0.143	0.634	0.233
Concurrent links (top1, th=0.1)	263	360	2	10	0.008	0.167	0.014
Levenshtein (top1, th=0.39)	295	24	41	275	0.122	0.13	0.126
Multi-factored model (top1)	31	1445	339	90	0.92	0.79	0.85

Table 2: Evaluation results on similarity metrics as independent models and on a multi-factored model based on the results of the independent ones.

The best F_1 score is in bold



Dataset of 2 957 927 pairs of red links and the candidate articles in English Wikipedia for the most frequent 3 171 red links from Ukrainian Wikipedia.

Publicly released at

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Code publicly released at

[https://github.com/Katerali/Red links Project for Wiki.](https://github.com/Katerali/Red_links_Project_for_Wiki)