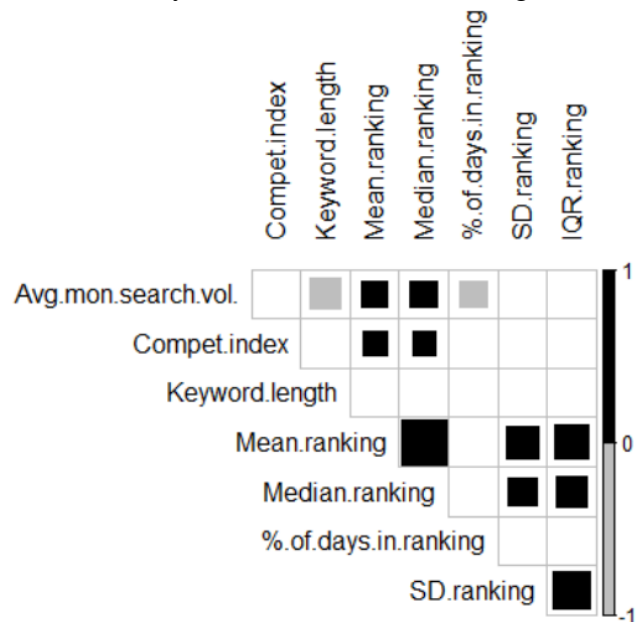


4 Keyword Boundary Conditions

In this section, we investigate possible keyword boundary conditions (e.g., keyword length, competition levels, etc.) on the revised content machine search engine ranking performance using the data and keywords reported in Tables W2.1 (IT service sector) and W3.1 (education sector).

Figure W4 contains a series of Kendall's tau b correlations in which we try to ascertain if factors such as keyword length, search volume, or competition have an effect on the search engine ranking performance of the revised machine content. Figure W4 shows that the machine-generated content does not perform as well (i.e., higher values of mean and median search engine ranking positions) for more popular search terms (higher average monthly search volume and more competition). In addition, a higher average monthly search volume is also associated with a lower percentage of days for which machine-generated content is ranked in the search engine over our observation period. The keyword length does not play an important role.

Figure W4: Keyword Boundary Conditions on Search Engine Ranking Performance



Kendall's tau b correlations: ■ = positive correlation, ■ = negative correlation, □ = statistically non significant correlation (at a 0.05 alpha level), a bigger square represents a higher correlation coefficient;

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