Pattern mining from the web log data leads to discovery of usage patterns of the user who navigate the web. Patterns which appear frequently in the web log data are item-sets and sequences. In this paper, a novel algorithm Intelligent Generalized Sequential pattern (IGSP) is designed which shows better results than the Generalized Sequential Pattern (GSP) algorithm. Experiment is conducted with respect to running time and number of patterns discovered from the log data and results has shown that IGSP outperforms the well-known algorithms (GSP) algorithm.

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