Applying Bi-Directional Search Strategy in Selected String Matching Algorithms

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 143

Number 11

Year of Publication: 2016

Authors:

Grishma Pandey, G. L. Prajapati

10.5120/ijca2016910474

Abstract

String matching is an important problem in computer science having several practical applications. In this paper, we apply bi-directional searching mechanism in exact string matching algorithms: Boyer Moore, Brute Force, Knuth-Morris Pratt, and Rabin Karp. Experiments show that this strategy leads to better efficiency of these string matching algorithm.

References

Applying Bi-Directional Search Strategy in Selected String Matching Algorithms

55-64.

Index Terms

Computer Science Algorithm

Keywords

Boyer Moore Algorithm, Brute Force Algorithm, Knuth-Morris Pratt Algorithm, Rabin Karp Algorithm