

Dictionaries Revisited

Martin Farach-Colton

Rutgers University, Piscataway, NJ, USA
martin@farach-colton.com

Abstract

Dictionaries are probably the most well studied class of data structures. A dictionary supports insertions, deletions, membership queries, and usually successor, predecessor, and extract-min. Given their centrality to both the theory and practice of data structures, surprisingly basic questions about them remain unsolved and sometimes even unposed. This talk focuses on questions that arise from the disparity between the way large-scale dictionaries are analyzed and the way they are used in practice.

1998 ACM Subject Classification E.1 Data Structures

Keywords and phrases B^c -trees, file system, write optimization

Digital Object Identifier 10.4230/LIPIcs.SEA.2017.2

Category Invited Talk



© Martin Farach-Colton;

licensed under Creative Commons License CC-BY

16th International Symposium on Experimental Algorithms (SEA 2017).

Editors: Costas S. Iliopoulos, Solon P. Pissis, Simon J. Puglisi, and Rajeev Raman; Article No. 2; pp. 2:1–2:1

Leibniz International Proceedings in Informatics



LIPICs Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany