

1 Overview

In this lecture, we discuss hashing as a solution to dictionary/membership problem. Various results on hashing are presented with emphasis on static perfect hashing and Cuckoo hashing.

2 Dictionary/Membership Problem

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3 Worst-case Guarantees in Static Hashing

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4 Dynamic Hashing

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References

- [1] M. Dietzfelbinger, F. Meyer auf der Heide, *A New Universal Class of Hash Functions and Dynamic Hashing in Real Time*, 17th ICALP, p. 6-19, 1990.