



DOWNLOAD



Amortized Complexity of Data Structures, Vol. 255 (Classic Reprint) (Paperback)

By Rajamani Sundar

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Amortized Complexity of Data Structures, Vol. 255 This thesis investigates the amortized complexity of some fundamental data structure problems and introduces interesting ideas for proving lower bounds on amortized complexity and for performing amortized analysis. The problems are as follows: Dictionary Problem: A dictionary is a dynamic set that supports searches of elements and changes under insertions and deletions of elements. It is open whether there exists a dictionary data structure that takes constant amortized time per operation and uses space polynomial in the dictionary size. We prove that dictionary operations require log-logarithmic amortized time under a multilevel hashing model that is based on Yao's cell probe model. Splay Algorithm's Analysis: Splay is a simple, efficient algorithm for searching binary search trees, devised by Sleator and Tarjan, that uses rotations to reorganize the tree. Tarjan conjectured that Splay takes linear time to process deque operation sequences on a binary tree and proved a special case of this conjecture called the Scanning Theorem. We prove tight bounds on the maximum numbers of various types of right rotations in a sequence...



READ ONLINE
[5.12 MB]

Reviews

I actually began looking at this pdf. It is actually really interesting through reading time period. You will not really feel monotony at any time of your respective time (that's what catalogues are for concerning if you ask me).

-- Brayan Mohr Sr.

A superior quality publication along with the font used was fascinating to learn. I have read through and I am also certain that I am going to go through yet again in the future. Your life period will likely be enhanced the instant you total reading this publication.

-- Donnie Rice