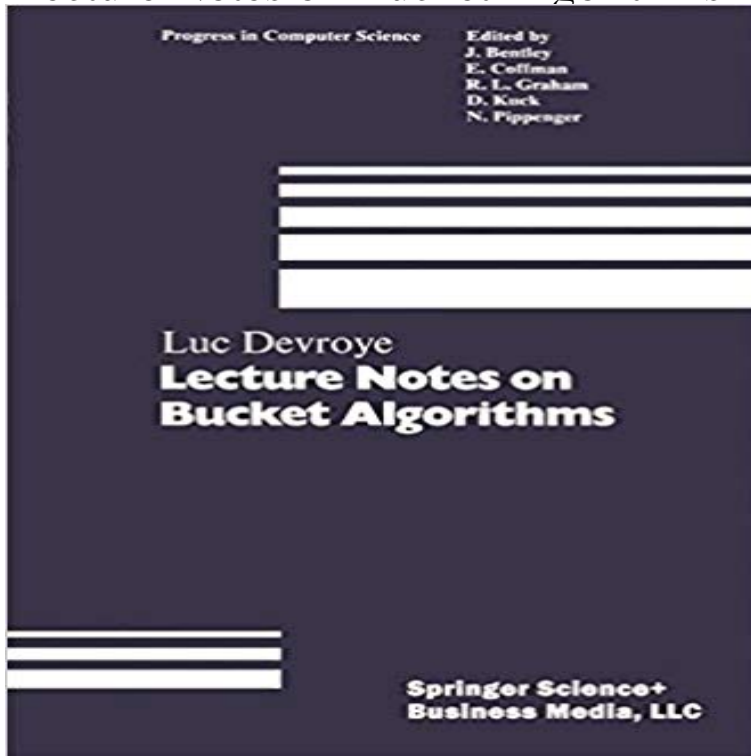


Lecture Notes on Bucket Algorithms



Hashing algorithms scramble data and create pseudo-uniform data distributions. Bucket algorithms operate on raw untransformed data which are partitioned into groups according to membership in equal-sized d -dimensional hyperrectangles, called cells or buckets. The bucket data structure is rather sensitive to the distribution of the data. In these lecture notes, we attempt to explain the connection between the expected time of various bucket algorithms and the distribution of the data. The results are illustrated on standard searching, sorting and selection problems, as well as on a variety of problems in computational geometry and operations research. The notes grew partially from a graduate course on probability theory in computer science. I wish to thank Elizabeth Van Gulick for her help with the manuscript, and David Avis, Hanna A. Yukawa, Vasek Chvatal, Beatrice Devroye, Hossam El Gindy, Duncan McCallum, Magda McCallum, Godfried Toussaint and Sue Whitesides for making the School of Computer Science at McGill University such an enjoyable place. The work was supported by NSERC Grant A3456 and by FCAC Grant EQ-1679.

INTRODUCTION 1 INTRODUCTION

It is not a secret that methods based upon the truncation of data have good expected time performance. For example, for nice distributions of the data, searching is often better done via a hashing data structure instead of via a search tree. The speed one observes in practice is due to the fact that the truncation operation is a constant time operation.

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