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Computer Science : Database ManagementManolopoulos, Y., Nanopoulos, A., Papadopoulos, A.N., Theodoridis, Y., Aristotle University of
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R-Trees: Theory and Applications

- The first comprehensive study on R-trees
- Not limited to a single application
- By presenting the specific application domains that each R-tree variant is applied, the authors help the reader to understand each variation and to select a proper variation according to their needs
- Discussion of various cost models and the implementation details of the methods
- Experimental results included for comparison of the various methods used as well as qualitative comparisons

Space support in databases poses new challenges in every part of a database management system & the capability of spatial support in the physical layer is considered very important. This has led to the design of spatial access methods to enable the effective & efficient management of spatial objects. R-trees have a simplicity of structure & together with their resemblance to the B-tree, allow developers to incorporate them easily into existing database management systems for the support of spatial query processing. This book provides an extensive survey of the R-tree evolution, studying the applicability of the structure & its variations to efficient query processing, accurate proposed cost models, & implementation issues like concurrency control and parallelism. Written for database researchers, designers & programmers as well as graduate students, this comprehensive monograph will be a welcome addition to the field.

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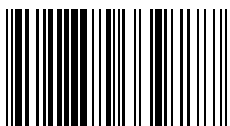
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