Indexing Highly Dynamic Hierarchical Data
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Challenge: Complex Updates on Hierarchical Data

Problem: Labeling schemes cannot handle complex updates efficiently!

Solution: Order Indexes
Concept: Encode nested intervals by positions in an ordered data structure

Flavors: AO-Tree, BO-Tree, Order List
AO-Tree

BO-Tree

Order List

Efficient Updates
Delete subtree B

Split

Join

Performance

Updates: Complex updates facilitated efficiently

Queries: On a par with labeling schemes