

# CE205 Data Structures Week-14

Direct File Organization Indexes Binary and B Tree Structures for File

Author: Asst. Prof. Dr. Uğur CORUH

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### 1 CE205 Data Structures

### 2 Week-14

#### 2.0.1 Direct File Organization Indexes Binary and B Tree Structures for File

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#### 2.0.2 Outline

- Indexed Sequential File Organization
- Bits of Information
- Secondary Key Retrieval
  - Multilist File Organization
  - Inverted Files
  - Partial Match Retrieval with Signature Trees
  - Partial Match Retrieval with Page Signatures

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<sup>1</sup>ce205-week-14-direct-file-b-tree.md\_doc.pdf

<sup>2</sup>ce205-week-14-direct-file-b-tree.md\_slide.pdf

<sup>3</sup>ce205-week-14-direct-file-b-tree.md\_slide.pptx

### 2.0.3 Outline

- Bits and Hashing
    - Signature Hashing
    - Bloom Filters
    - Classification Hashing
    - Check Hashing
- 

### 2.0.4 Outline

- Binary Tree Structures
    - Binary Search Trees
    - AVL Trees
    - Internal Path Reduction Trees
- 

### 2.0.5 Outline

- B-Trees and Derivatives
    - B-Trees
    - B#-Trees
    - B+ -Trees
- 

### 2.0.6 Indexed Sequential File Organization

- Bits of Information
  - Secondary Key Retrieval
    - Multilist File Organization
    - Inverted Files
    - Partial Match Retrieval with Signature Trees
    - Partial Match Retrieval with Page Signatures
  - <https://www.amirajcollege.in/wp-content/uploads/2020/06/3130702-chapter-4-hashing-and-file-structure.pdf>
- 

### 2.0.7 Bits and Hashing

- Signature Hashing
    - Unique File Hashing
  - Bloom Filters
    - <https://www.geeksforgeeks.org/bloom-filters-introduction-and-python-implementation/>
  - Classification Hashing
    - [https://en.wikipedia.org/wiki/Feature\\_hashing](https://en.wikipedia.org/wiki/Feature_hashing)
  - Check Hashing
- 

### 2.0.8 Binary Tree Structures

- Binary Search Trees
  - AVL Trees
  - Internal Path Reduction Trees
-

## 2.0.9 B-Trees and Derivatives

- B-Trees
  - <https://www.geeksforgeeks.org/introduction-of-b-tree-2/>
  - <https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture11.pdf>
- B#-Trees
  - .
- B+ -Trees
  - <https://www.geeksforgeeks.org/introduction-of-b-tree/?ref=gcse>

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*End – Of – Week – 14*