This course presents principles of data representation, search, and information retrieval. Topics include:
- data types and representations;
- search operations;
- performance and correctness measures for search;
- similarity between entities; indexing;
- query evaluation and optimization;
- basic data mining tasks; search in multi-dimensional data;
- information retrieval techniques;
- search in large graphs; distributed and parallel data management.

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### Pre-requisites:
Mutually exclusive with COMP8101. Students who have taken and passed COMP8101 are not allowed to take COMP9102

### Assessment:
- In-course assessment

### Timetable:

<table>
<thead>
<tr>
<th>Date</th>
<th>Start Time</th>
<th>End Time</th>
<th>Venue</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday - Friday</td>
<td>19:00</td>
<td>21:30</td>
<td>CB308</td>
<td></td>
</tr>
</tbody>
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Teaching Period: Sep 2 - Nov 30, 2024
Reading Week: Oct 14 - 19, 2024

This is a Graduate Course. MPhil/PhD students in the Department of Computer Science should read the Coursework Requirement.

Instructor(s):
Prof. N. MAMOULIS

Instructors' website:
https://i.cs.hku.hk/~nikos/