DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
ODENSE UNIVERSITY

COMPUTER SCIENCE COLLOQUIUM

Faster Sorting and Searching in Theory and Practice

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The Seminar Room

Abstract: We give an overview of some recent findings in the area of sorting and searching. In particular, we discuss the relevance of the so-called information theoretic lower bound. Among others, we show that there is a data structure supporting search/update in $O(\sqrt{\log n})$ time which is simple enough to be implemented efficiently.

We will also give a short overview of ongoing work to implement new, practical, sorting algorithms.

Joan F. Boyar