PARALLEL SEARCHING IN TREES

Frank Recker

FB4 - Theoretische Informatik
Universitt Trier
D-54286 Trier
Germany
recker@ti.uni-trier.de

The search complexity of a sequential search process might be much lower than the search complexity of the corresponding parallel search process. The possibly large difference can be studied by the following modification: All questions have to be asked sequentially in r rounds. All questions in the same round are answered in parallel. This modification is analyzed for the search process "Searching a leaf in a tree".