

Institut für Betriebssysteme und Rechnerverbund Abteilung Distributed and Ubiquitous Systems

Übungen zur Vorlesung

Algorithms for context prediction in ubiquitous systems

Wintersemester 08/09

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Exercise: 25.11.2008, 13:15 - 14:45

2 Exact prediction approaches

2.1 High-level and low-level context prediction

In the lecture we have discussed the IPAM algorithm. Consider the following scenario: Possible Events: A,B,C; $\alpha = 0.8$; Observed Sequence: A-A-B-A-C-···

a) Calculate the prediction of the IPAM algorithm on observing the input sequence.

2.2 Computational complexity of the Boyer-Moore algorithm

a) Derive the computational complexity of the Boyer-Moore algorithm

2.3 Computational complexity of the ONISI algorithm

a) Derive the computational complexity of the ONISI algorithm