



UNIVERSITÄT
BAYREUTH



Informatik-Kolloquium

Das Institut für Informatik lädt ein

ZUM THEMA

An Algebraic Multigrid Solution of Large Hierarchical Markovian Models

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ABSTRACT

In Web information retrieval stochastic link analysis provides important supplementary means to generate a ranking of searched objects. Considering a hierarchical algebraic description of a Web graph with host-oriented clustering of pages or a role-oriented perspective, we propose an efficient computation of the stationary distribution of the underlying homogeneous Markov chain of a random surfer by iterative aggregation/disaggregation procedures and algebraic multigrid methods.

In particular, we discuss the application of an efficient multigrid variant of the multiplicative Schwarz iteration which can be performed on a single machine with limited storage requirements.

Wann:

Mittwoch, 11.6.2014,

13 Uhr s.t.

Wo:

Hörsaal H 34

(AI)