Informatik-Kolloquium

Rheinisch-Westfälische Technische Hochschule Aachen
Lehrstuhl für Informatik V

EINLADUNG

Zeit: Freitag ,18. Mai 2001, 14.00 Uhr

Ort: Hörsaal AH III, Ahornstr.55

Referent: Prof. Dr. Evangelos Milios, Dalhousie University,

Thema: Networked Information Spaces in the Small

Abstract:

Large networked information spaces, such as the World Wide Web and the

Citation Graph, are becoming amenable to representation and analysis with desktop computing resources. Search engines have been indexing the WWW for some time now, an exercise that requires substantial computing resources, which are increasing exponentially, just like the WWW does. We are interested in problems involving networked information spaces that can be solved with constant computing

resources, independent of the size of the space, either with or without the help of search engines (indexing and back-link tracing). We will discuss approaches to three problems related to networked information spaces.

1. Characterization of the Citation Graph for Computer Science. We use various techniques from graph theory to study the properties of the citation graph, constructed from ResearchIndex (Citeseer). Results so far have shown that the citation graph is highly connected, and that such connectivity does not depend on particular hub or authority papers.

2. Similarity measure for computer science papers based on the similarity of their neighbourhoods in the citation graph, defined either in terms of the size of a minimum cut to separate the two papers, or in terms of the overlap in authority papers in the two neighbourhoods. The method has been seen to uncover unexpected relations.

3. Construction of a highly connected context graph for focused crawling on the WWW.

Es laden ein: Die Dozenten der Informatik