Computational Information Retrieval Workshop

CIR00

October 22, 2000
Jane S. McKimmon Center
North Carolina State University
Raleigh, North Carolina

Workshop Sponsors

Boeing
M-CAM, Inc.
Society of Industrial and Applied Mathematics (SIAM)
Telcordia Technologies

Organizing Committee

Michael W. Berry, *University of Tennessee (chair)*
Rick Thursby, *University of Tennessee (registration)*
Donna Bodenheimer, *University of Tennessee (local arrangements)*

Publication of Papers

Invited and contributed papers selected for CIR00 will be published in a special proceedings of the workshop to be published by SIAM (editor: M.W. Berry). Full papers (gzip-compressed postscript) should be submitted by November 30, 2000 to berry@cs.utk.edu.

Workshop Schedule

October 22, 2000: CIR00 Workshop

7:30	-	8:30	Continental Breakfast and Registration
8:30	-	8:45	Welcome (M.W. Berry)
8:45	-	10:15	Invited Talks Session 1
10:15	-	10:30	Coffee Break
10:30	-	12:00	Invited Talks Session 2
12:00	-	13:30	Lunch
13:30	-	15:00	Invited Talks Session 3
15:00	-	15:15	Coffee Break
15:15	-	16:45	Contributed Talks Session
16:45	-	17:30	Panel Discussion
17:30	-	17:45	Wrapup/Adjourn

Invited Talks Session 1 — Sunday 8:45-10:15

Dimension Reduction in Vector Space Based Information Retrieval Using Least Norm.
Haesun Park

Information Retrieval Using Short Krylov Subspaces
Axel Ruhe and Katarina Blom

Information Retrieval and Classification with Subspace Representations
Fred Holt and Jason Wu

Invited Talks Session 2 — Sunday 10:30-12:00

Applications of Incremental Dominant Subspaces
Kyle Gallivan and Paul Van Dooren

Concept Decompositions for Large-Scale Information Retrieval
Inderjit Dhillon

Applications of Orthogonal Decomposition in Information Retrieval
Liz Jessup and Jim Martin

Invited Talks Session 3	Sunday 13:30-15:00

Detecting Emerging Conceptual Contexts in Data Mining
Bill Pottenger

Symbolic Preprocessing Techniques for Information Retrieval Using Vector Space Models
Padma Raghavan and Michael Berry

A Probabilistic Model for LSI/SVD in Information Retrieval
Chris Ding

Contributed Talks Session	Sunday 15:15-16:45

Clustering Large Unstructured Document Sets
Jacob Kogan

Dynamic Load Balancing Model: Design and Validation of a Biological Model for a Parallel Pseudo-Search
Reginald Walker

On the Use of the Singular Value Decomposition for Text Retrieval
Parry Husbands

Applying LSA to Online Customer Support: A Trial Study
John Caron

A Comparative Analysis of LSI Strategies
Flavio Sartoretto

Panel Discussion	Sunday 16:45-17:30

Potential Discussion Questions
What are the current limitations to IR algorithm development?
What alternatives to Vector Space Models should be investigated?
How can industry and academic collaborate on IR system designs?
What backgrounds/courses should students have to pursue careers/theses in computational IR?