ACM SIGIR
Workshop on
Mathematical/Formal Methods in Information Retrieval
MF/IR 2003
Toronto, Canada

9.00   Welcome (S. Dominich)
9.00 – 9.30 Invited Talk: „The unified model revisited”
S. Robertson  (Microsoft Research, City University)

SESSION I.: INFORMATION RETRIEVAL MODELS
9.30 – 9.50 Formal models for IR: a review and proposal for keyword assignment
A. M. Ráez (European Organisation for Nuclear Research)
9.50 – 10.10 A general matrix framework for modelling IR
T. Rölleke, T. Tsikrika, G. Kazai (Queen Mary University of London)
10.10 – 10.30 A risk minimisation framework for IR
C. X. Zhai, J. Lafferty (University of Illinois at Urbana-Champaign)
10.30 – 11.00 Coffee Break
11.00 – 11.20 An adaptive local dependency language model: relaxing the naive Bayes assumption
R. Nallapati, J. Allan (University of Massachussetts)
11.20 – 11.40 Dependency structure language model for IR
C. Lee, G. G. Lee (Pohang University of Science and Technology)
11.40 – 12.00 A theoretical study of logical retrieval in terms of a characterisation of knowledge revision
A. Barreiro (University of Coruña), D. E. Losada (University of Santiago de Compostela)
12.00 – 12.20 Computational aspects of connectionist interaction IR
S. Dominich, Zs. Tuza (University of Veszprém)
12.30 – 14.00 LUNCH

SESSION II.: SIMILARITY MEASURES, RETRIEVAL
14.00 – 14.20 An exploration of formalised retrieval heuristics
H. Fang, T. Tao, C. X. Zhai (University of Illinois at Urbana-Champaign)
14.20 – 14.40 Poset representation and similarity comparison of systems in IR
C. Michel (Centre d’Étude des Médias)
14.40 – 15.10 Incrementally ranking ephemeral web documents in search engines
J. Wu, K. Aberer (Swiss Federal Institute of Technology)
15.10 – 15.30 Color retrieval in vector space model
A. Doloc-Mihu, V. V. Raghavan (University of Louisiana at Lafayette)
P. Bollmann-Sdorra (Technical University of Berlin)
15.30 – 16.00 Coffee Break

SESSION III.: LATENT SEMANTIC INDEXING
16.00 – 16.20 A latent semantic structure model for text classification
M. Wang (Jiangxi Normal University), J.-Y. Nie (Université de Montréal)
16.20 – 16.40 A framework for understanding LSI performance
A. Kontostathis, W. M. Pottenger (Lehigh University)
16.40 – 17.30 Panel Discussion
17.30 Closing

N.B.! Each SESSION presentation is allocated 20 min as follows: 20 min = 15 min talk + 5 min questions.