

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

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- 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 Massachusetts)
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 **L U N C H**

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.**