

Mounia Lalmas MSc PhD

Visiting Principal Scientist

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Expertise Search and Evaluation

Focus User Engagement, Information Retrieval, Aggregated Search, Social Media, Digital Divide

Skills Research & Management, Editorial & Writing, Design & Data Analysis

1 Education

Ph.D. in Computing Science, University of Glasgow, 1996.

Master of Applied Science in Computing Science, University of Glasgow, 1991.

Diplome d'Ingéniorat d'Etat en Informatique, Université des Sciences et Technologies Houari Boumèdiène, Algiers, 1989.

2 Employment

Visiting Principal Scientist, Yahoo! Research Barcelona, Spain, 2011-present.

Microsoft Research/Royal Academy of Engineering Research Professor of Information Retrieval, Department of Computing Science, University of Glasgow, United Kingdom, 2008-2010.

Professor of Information Retrieval, Department of Computer Science, Queen Mary, University of London, United Kingdom, 2005-2008.

Reader in Information Retrieval, Department of Computer Science, Queen Mary, University of London, United Kingdom, 2001-2005.

Senior Lecturer, Department of Computer Science, Queen Mary, University of London, United Kingdom, 2001.

Lecturer, Department of Computer Science, Queen Mary, University of London, United Kingdom, 1999-2000.

Research Fellow (part-time), Department of Computing Science, University of Glasgow, United Kingdom; and Research Scientist (part-time), Informatik VI, University of Dortmund, Germany, 1997-1998.

Lecturer, Department of Computing Science, University of Glasgow, United Kingdom, 1995-1999.

Lecturer, School of Computer Science, University of Windsor, Canada, 1994-1995.

3 Publications

3.1 Journals

1. I. Arapakis, M. Lalmas, H. Ceylan, P. Donmez. Automatically Embedding Newsworthy Links to Articles: From Implementation to Evaluation, *Journal of the American Society for Information Science and Technology (JASIST)*, 2013.
2. T. Blanke, M. Lalmas and T. Huibers. A Framework for the Theoretical Evaluation of XML Retrieval, Accepted for Publication in *Journal of the American Society for Information Science and Technology (JASIST)*, 63(5):865-888, 2012.
3. M.S. Ali, M.P. Consens and M. Lalmas. Extended Structural Relevance Framework: A Framework for Evaluating Structured Document Retrieval, *Journal of Information Retrieval (IR)*, 15(6):558-590, 2012.
4. Z. Szlavik, A. Tombros and M. Lalmas. Summarisation of the logical structure of XML documents, *Information Processing & Management (IP&M)*, 48(5):956-968, 2012.
5. B. Piwowarski, M.R. Amini and M. Lalmas. On using a Quantum Physics formalism for Multi-document Summarisation, *Journal of the American Society for Information Science and Technology (JASIST)*, 63(5):865-888, 2012.
6. T. Blanke and M. Lalmas. Specificity Aboutness in XML Retrieval, Special Issue of the second international conference on the theory of information retrieval, *Journal of Information Retrieval*, 14(1):68-88, February 2011.
7. M. Frohlich, R. Bhat, M. Jones, M. Lalmas, M. Frank, D. Rachovides, R. Tucker and K. Riga. Democracy, Design, and Development in Community Content Creation: Lessons from the Story-Bank Project, HCI4D Special Issue, *Journal of Information Technologies and International Development*, 5(4):19-36, December 2009.
8. B. Piwowarski, A. Trotman and M. Lalmas. Sound and Complete Relevance Assessment for XML Retrieval. *ACM Transactions on Information Systems*, 27(1), Article 1, 37 pages, December 2008.
9. E. Ashoori, M. Lalmas and T. Tsikrika. Examining Topic Shifts in Content-Oriented XML Retrieval. *International Journal of Digital Libraries*, 8(1):39-60, November 2007.
10. M.R. Amini, A. Tombros, N. Usurier and M. Lalmas. Learning-Based Summarisation of XML Documents. *Journal of Information Retrieval*, 10(3):233-255, June 2007.
11. G. Kazai and M. Lalmas. eXtended Cumulated Gain Measures for the Evaluation of Content-oriented XML Retrieval. *ACM Transactions on Information Systems*, 24(4):503-542, October 2006.
12. N. Goevert, N. Fuhr, M. Lalmas and G. Kazai. Evaluating the effectiveness of content-oriented XML retrieval methods. *Journal of Information Retrieval*, 9(6):699-722, December 2006.
13. S. Amer-Yahia and M. Lalmas. XML Search: Languages, INEX and Scoring, *SIGMOD Record*, 35(4):16-23, December 2006.
14. J. Reid, M. Lalmas, K. Finesilver and M. Hertzum. Best Entry Points for Structured Document Retrieval - Part I: Characteristics. *Information Processing & Management*, 42(1):74-88, January 2006.
15. J. Reid, M. Lalmas, K. Finesilver and M. Hertzum. Best Entry Points for Structured Document Retrieval - Part II: Types, Usage and Effectiveness. *Information Processing & Management*, 42(1):89-105, January 2006.
16. T. Tsikrika and M. Lalmas. Combining evidence from web retrieval using the inference network model - an experimental study. *Information Processing & Management*, Special Issue in Bayesian Networks and Information Retrieval, 40(5):751-772, September 2004.
17. G. Kazai, M. Lalmas, N. Fuhr, and N. Goevert. A Report on the First Year of the INitiative for the Evaluation of XML Retrieval (INEX'02). *European Research Letter, Journal of the American Society for Information Science and Technology*, 55(6):551-556, April 2004.
18. I. Ruthven and M. Lalmas. A survey on the use of relevance feedback for information access systems. *Knowledge Engineering Review*, 18(2):95-145, December 2003.
19. M. Lalmas and T. Roelleke. Four-valued knowledge augmentation for structured document retrieval. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Special issue on Management of Uncertainty and Imprecision in Multimedia Information Systems, 11(1):67-86, February 2003.

20. I. Ruthven, M. Lalmas and C.J. van Rijsbergen. Incorporating User Search Behaviour in Relevance Feedback. *Journal of the American Society of Information Science and Technology*, 54(6):528-548, February 2003.
21. I. Ruthven and M. Lalmas. Combining aspects of information use in relevance feedback. *Journal of Intelligent Information Systems*, 53(5):378-396, November 2002.
22. A. Pearmain, M. Lalmas, E. Moutogianni, D. Papworth, P. Healey and T. Roelleke. Using MPEG7 at the Consumer Terminal in Broadcasting. *EURASIP Journal on Applied Signal Processing*, 2002(4):354-361, April 2002.
23. I. Ruthven, M. Lalmas and C.J. van Rijsbergen. Combining and selecting characteristics of information use. *Journal of the American Society for Information Science and Technology*, 53(5):378-396, February 2002.
24. M. Lalmas. Combining document representations. *International Journal of Cooperative Information Systems*, 9(4):427-447, December 2000.
25. F. Crestani and M. Lalmas. Logical and Uncertainty Models for Information Access: Current Trends. *Knowledge Engineering Review*, 15(2):171-179, June 2000.
26. M. Lalmas. A model for representing and retrieving heterogeneous structured documents based on evidential reasoning. *The Computer Journal*, 42(7):547-568, December 1999.
27. M. Lalmas and I. Ruthven. Representing and Retrieving Structured Documents with Dempster-Shafer's Theory of Evidence: Modelling and Evaluation. *Journal of Documentation*, 54(5):529-565, December 1998.
28. M. Lalmas. Logical Models in Information Retrieval: Introduction and Overview. *Information Processing & Management*, 34(1):19-33, February 1998.
29. M. Lalmas and P.D. Bruza. The use of Logic in Information Retrieval Modelling, *Knowledge Engineering Review*, 13(3):263-295, November 1998.
30. F. Crestani, M. Lalmas, I. Campbell and C.J. van Rijsbergen. Is this document relevant? ... probably. A survey of probabilistic models in Information Retrieval. *ACM Computing Surveys*, 30(4):528-552, 1998.
31. C.J. van Rijsbergen and M. Lalmas. An Information Calculus for Information Retrieval. *Journal of the American Society of Information Science*, 47(5):385-398, April 1996.

3.2 Conferences, workshops and symposiums

32. J. Lehmann, C. Castillo, M. Lalmas and E. Zucherman. Finding News Curators in Twitter, WWW Workshop on Social News On the Web (SNOW), 13 May 2013, Rio de Janeiro, Brazil.
33. J. Lehmann, C. Castillo, M. Lalmas and E. Zucherman. Transient News Crowds in Social Media, Seventh International AAAI Conference on Weblogs and Social Media (ICWSM), 8-10 July 2013, Cambridge, Massachusetts.
34. K. Zhou, R. Cummins, M. Lalmas and J. Jose. Which Vertical Search Engines are Relevant? Understanding Vertical Relevance Assessments for Web Queries, International World-Wide Web Conference (WWW), 13-17 May 2013, Rio de Janeiro, Brazil.
35. K. Zhou, S. Whiting, J. Jose and M. Lalmas. The Impact of Temporal Intent Variability on Diversity Evaluation, 35th European Conference on Information Retrieval, Moscow, Russia, 24-27 March 2013 (Short Paper).
36. G. Dupret and M. Lalmas. Absence time and user engagement: Evaluating Ranking Functions, Sixth ACM International Conference on Web Search and Data Mining (WSDM), Rome, Italy, February 6-8, 2013.
37. S. Sushmita, M. Halvey, M. Lalmas and R. Villa. Revisiting User Information Needs in Aggregated Search, 2nd European Workshop on Human-Computer Interaction and Information Retrieval (EuroHCIR 2012), at IiX 2012, Nijmegen, The Netherlands, 24-25th August 2012.
38. H. Ceylan, I. Arapakis, P. Donmez and M. Lalmas. Automatically Embedding Newsworthy Links to Articles, 21st ACM International Conference on Information and Knowledge Management (CIKM), October 29 - November 2, 2012, Maui, Hawaii, USA (Short Paper).
39. A. Zhou, R. Cummins, M. Lalmas and J. Jose. Evaluating Aggregated Search Pages, 35th ACM SIGIR Conference on Research and Development in Information Retrieval, Portland, Oregon, 12-16 August 2012.

40. J. Lehmann, M. Lalmas, E. Yom-Tov and G. Dupret. Models of User Engagement, 20th conference on User Modeling, Adaptation, and Personalization (UMAP 2012), Montreal, 16-20 July 2012.
41. L. McCay-Peet, M. Lalmas and V. Navalpakkam. On Saliency, Affect and Focused Attention, ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), 5-10 May, Austin, Texas, 2012 – **Honorable Mention**.
42. K. Zhou, R. Cummins, M. Lalmas and J. Jose. Evaluating Large-Scale Distributed Vertical Search, CIKM 2011 Workshop on Large-Scale and Distributed Information Retrieval (LSDS-IR 2011), Friday 28 October 2011, Glasgow, Scotland, UK.
43. R. Cummins, M. Lalmas, C. O’Riordan and J. Jose. Navigating the User Query Space, 18th String Processing and Information Retrieval (SPIRE 2011), 17-21 October 2011, Pisa, Italy (Short Paper).
44. N.J. Bidwell, M. Lalmas, G. Marsden, B. Dlutu, S. Ntlangano, A. Manjingolo, W.D. Tucker, M. Jones, S. Robinson, E. Vartiainen and I. Klampanos. Please call ME.N.U.4EVER: Designing for ‘Callback’ in Rural Africa, International Workshop on Internationalisation of Products and Systems (IWIPS 2011), 11-14 July, 2011, Malaysia.
45. S. Attfield, G. Kazai, M. Lalmas and B. Piwowarski. Towards a science of user engagement (Position Paper), WSDM Workshop on User Modelling for Web Applications, Hong Kong, 9 February 2011.
46. A. Caputo, B. Piwowarski and M. Lalmas. A Query Algebra for Quantum Information Retrieval, 2nd Italian Information Retrieval (IIR), University of Milano-Bicocca, Italy, January 26-28, 2011.
47. R. Cummins, M. Lalmas and C. O’Riordan. The Limits of Retrieval Effectiveness, 33rd European Conference on Information Retrieval (ECIR), Dublin, Ireland, 18-21 April (Short Paper).
48. B. Piwowarski, I. Frommholz, M. Lalmas and C.J. van Rijsbergen. What can Quantum Theory Bring to Information Retrieval?, ACM CIKM Nineteenth Conference on Information and Knowledge Management, Toronto, Canada, 26-30 October 2010.
49. S. Sushmita, H. Joho, M. Lalmas and R. Villa. Factors Affecting Click-Through Behavior in Aggregated Search Interfaces, ACM CIKM Nineteenth Conference on Information and Knowledge Management, Toronto, Canada, 26-30 October 2010.
50. R. Cummins, M. Lalmas, C. O’Riordan. Examining the Information Retrieval Process from an Inductive Perspective, ACM CIKM Nineteenth Conference on Information and Knowledge Management, Toronto, Canada, 26-30 October 2010 – **Short-listed for Best Inter-disciplinary Paper Award**.
51. D. Song, M. Lalmas, C.J. van Rijsbergen, I. Frommholz, B. Piwowarski, J. Wang, P. Zhang, G. Zuccon, P.D. Bruza, S. Arafat, L. Azzopardi, E. Di Buccio, A. Huertas-Rosero, Y. Hou, M. Melucci, S. Rueger. How quantum theory is developing the field of information retrieval, AAAI-Fall (QI) Symposium on Quantum Informatics for Cognitive, Social, and Semantic Processes, Washington, DC, November 2010.
52. I. Frommholz, B. Larsen, B. Piwowarski, M. Lalmas, P. Ingwersen, C.J. van Rijsbergen. Supporting Polyrepresentation in a Quantum-inspired Geometrical Retrieval Framework, Information Interaction in Context conference (IIx 2010), New Brunswick NJ USA, August 18-22, 2010 – **Short-listed for Best Paper Award**.
53. C. Ronan, M. Lalmas, C. O’Riordan. Learning Aggregation Functions for Expert Search, 19th European Conference on Artificial Intelligence (ECAI 2010), Lisbon, Portugal, August 16-20, 2010.
54. E. Graf, I. Frommholz, M. Lalmas and C.J. van Rijsbergen. Knowledge Modeling In Prior Art Search, First Information Retrieval Facility (IRF) Conference, Vienna, Austria, 31 May 2010.
55. B. Piwowarski, I. Frommholz, M. Lalmas and C.J. van Rijsbergen. Exploring a Multidimensional Representation of Documents and Queries, 9th international conference on Adaptivity, Personalization and Fusion of Heterogeneous Information (RIAO 2010), Paris, France, 28-30 April 2010 (Short Paper).
56. R. Cummins, C. O’Riordan and M. Lalmas. An Analysis of Learned Proximity Functions, 9th international conference on Adaptivity, Personalization and Fusion of Heterogeneous Information (RIAO 2010), Paris, France, 28-30 April 2010 (Short Paper).
57. E. Di Buccio, M. Lalmas and M. Melucci. From Entities to Geometry: Towards exploiting Multiple Sources to support Relevance Prediction, First Italian Information Retrieval Workshop (IIR 2010), Padova, Italy, 27-28 January 2010.

58. L. Azzopardi, R. Glassey, M. Lalmas, T. Polajnar and I. Ruthven. PuppyIR: Designing an Open Source Framework for Interactive Information Services for Children, 3rd Annual Workshop on Human-Computer Interaction and Information Retrieval (HCIR 2009), Catholic University of America, Washington DC, USA, 23 October 2009.
59. T. Blanke and M. Lalmas. Specificity Aboutness in XML Retrieval, 2nd International Conference on the Theory of Information Retrieval (ICTIR), Cambridge, UK, 10-12 September 2009 – **Short-listed for Best Paper Award.**
60. B. Piwowarski and M. Lalmas. An Interactive Quantum Perspective for Information Retrieval, 2nd International Conference on the Theory of Information Retrieval (ICTIR), Cambridge, UK, 10-12 September 2009 (Short Paper).
61. J. Kamps, M. Lalmas and B. Larsen. Evaluation in Context, 13th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2009), Corfu, Greece, 27 September - 2 October, 2009.
62. S. Sushmita, H. Joho and M. Lalmas. A Task-Based Evaluation of an Aggregated Search Interface, 16th String Processing and Information Retrieval Symposium (SPIRE), Saariselk, Finland, 25-27 August 2009.
63. S. Sushmita, H. Joho, M. Lalmas and J.M. Jose. Understanding domain “relevance” in web search, WWW 2009 Workshop on Web Search Result Summarization and Presentation, Madrid, Spain, 20 April 2009.
64. B. Piwowarski and M. Lalmas. Structured Information Retrieval and Quantum Theory, 3rd Quantum Interaction Symposium, DFKI, Saarbruecken, pp 289-298, 2009 (Position Paper).
65. S. Ali, M. Consens, G. Kazai, M. Lalmas. Structural Relevance: A Common Basis for the Evaluation of Structured Document Retrieval, 17th ACM Conference on Information and Knowledge Management (CIKM 2008), pages 1153-1162, Napa Valley, California, 2008 – **Runner Up: Best Interdisciplinary Paper Award.**
66. S. Sushmita, M. Lalmas, and A. Tombros. Using digest pages to increase user result space: Preliminary designs, SIGIR 2008 Workshop on Aggregated Search, Singapore, 24 July 2008.
67. Y. Chang, J. Wang, and M. Lalmas. Generation of query-biased concepts using content and structure for query reformulation, 13th International Conference on Applications of Natural Language to Information Systems (NLDB2008), London, pp 136-141, June 2008 (Short Paper).
68. M. Jones, W. Harwood, G. Buchanan, D. Frohlich, D. Rachovides, M. Lalmas and M. Frank. Narrowcast yourself: Designing for Community Storytelling in a Rural Indian Context, ACM Conference on Designing Interactive Systems, Cape Town, South Africa, pp 369-378, February 2008.
69. Z. Szlavik, A. Tombros and M. Lalmas. Content and structure summarisation of XML documents for effective information access. Second DELOS Conference on Digital Libraries, Tirrenia, Pisa, Italy, 5-7 December 2007.
70. M. Lalmas and A. Tombros. INEX 2002 - 2006: Understanding XML Retrieval Evaluation, Digital Libraries: Research and Development, First International DELOS Conference, Pisa, Italy, February 13-14, 2007, Revised Selected Papers.
71. M.S. Ali, M.P. Consens and M. Lalmas. Structural Relevance in XML Retrieval Evaluation, SIGIR 2007 Workshop on Focused Retrieval, Amsterdam, The Netherlands, July 27, 2007.
72. E. Ashoori and M. Lalmas. Using Topic-shifts in XML Retrieval at INEX 2006. In Comparative Evaluation of XML Information Retrieval Systems: Fifth Workshop of the INitiative for the Evaluation of XML Retrieval (INEX 2006), 2007.
73. Z. Kong and M. Lalmas. Using XML Logical Structure to Retrieve (Multimedia) Objects, 11th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2007), Budapest, Hungary, September 2007.
74. M. Jones, W. Harwood, G. Buchanan and M. Lalmas. StoryBank: an Indian Village Community Digital Library, ACM IEEE Joint Conference on Digital Libraries, Vancouver, British Columbia, Canada, pp 257-258, June 2007 (Short Paper).
75. T. Blanke and M. Lalmas. Theoretical Benchmarks of Evaluation Methodologies in XML Retrieval, 7th Dutch-Belgian Information Retrieval Workshop (DIR 2007), K.U.Leuven, Leuven, Belgium, March 2007 – **Best student paper award.**
76. E. Ashoori and M. Lalmas. Using Topic-shift for Focussed Access to XML Repositories, 29th European Conference on Information Retrieval (ECIR), pp 444-455, April 2007.

77. T. Tsirikika and M. Lalmas. Combining evidence for relevance criteria: a framework and experiments in web retrieval, 29th European Conference on Information Retrieval (ECIR), pp 481-493, April 2007.
78. Z. Szlavik, A. Tombros and M. Lalmas. Feature- and query-based table of contents generation for XML documents, 29th European Conference on Information Retrieval (ECIR), pp 456-467, April 2007.
79. P. Ogilvie and M. Lalmas. Investigating the Exhaustivity Dimension in Content-Oriented XML Element Retrieval Evaluation, 15th ACM Conference on Information and Knowledge Management (CIKM), Arlington, Virginia, USA, pp 84-93, November 2006.
80. Y. Raimond, S. Abdallah, M. Sandler and M. Lalmas. A Scalable Framework for Multimedia Knowledge Management, 1st international conference on Semantics And digital Media Technology (SAMT 2006), Athens, Greece, pp 11-25, December 2006.
81. Z. Szlavik, A. Tombros and M. Lalmas. The use of summaries in XML retrieval, 10th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2006), Alicante, Spain, pp 75-86, September 2006.
82. Z. Szlavik, A. Tombros and M Lalmas. Investigating the use of summarisation for interactive XML retrieval. Proceedings of the 21st ACM Symposium on Applied Computing, Information Access and Retrieval Track (SAC-IARS'06), pp 1068-1072, Dijon, France, April 2006.
83. G. Kazai and M. Lalmas. Notes on what to measure in INEX, Proceedings of the INEX 2005 Workshop on Element Retrieval Methodology, Glasgow, July 2005.
84. T. Tsirikika and M. Lalmas. Modelling Good Entry Pages on the Web. 15th International Symposium on Methodologies for Intelligent Systems (ISMIS), pp 257-265, Saratoga Springs, New York, USA, May 2005.
85. G. Durand, G. Kazai, M. Lalmas, U. Rauschenbach, and P. Wolf. A metadata model supporting scalable interactive TV services. 11th International Multimedia Modelling Conference (MMM), pp 386-391, Melbourne, Australia, January 2005.
86. Z. Kong and M. Lalmas. XML Multimedia Retrieval. Symposium on String Processing and Information Retrieval (SPIRE), pp 218-223, Buenos Aires, Argentina, 2005 (Short Paper).
87. B. Piwowarski and M. Lalmas. Ensuring consistent and exhaustive relevance assessments for XML retrieval evaluation. 13th ACM Conference on Information and Knowledge Management (CIKM), pp 361-370, Washington DC, USA, November 2004.
88. M. Lalmas, T. Roelleke, Z. Szlavik and A. Tombros. Accessing XML documents: the INEX initiative, Notes of the DELOS WP7 Workshop on the Evaluation of Digital Libraries, University of Padua, Italy, 4-5 October 2004.
89. G. Kazai, M. Lalmas and A. de Vries. The overlap problem in content-oriented XML retrieval evaluation. ACM SIGIR Conference on Research and Development in Information Retrieval, pp 72-79, Sheffield, UK, July 2004.
90. M. Lalmas and T. Roelleke. Modelling vague content and structure querying in XML retrieval with a probabilistic object-relational framework. 6th International Conference On Flexible Query Answering Systems (FQAS), pp 432-445, Lyon, France, June 2004.
91. A. de Vries, G. Kazai and M. Lalmas. Tolerance to Irrelevance: A User-effort Oriented Evaluation of Retrieval Systems without Predefined Retrieval Unit. RIAO 2004 Conference on Coupling approaches, coupling media and coupling languages for information retrieval, University of Avignon (Vaucluse), pp 463-473, France, April 2004.
92. J. Bywater, M-L Bourguet, G. Kazai, M. Lalmas and A. Pearmain. Scalable and personalised broadcast service. EuroITV 2004 European Conference on Interactive Television: Enhancing the experience, Brighton, U.K, March-April 2004.
93. Z. Kong and M. Lalmas. Integrating XLink and XPath to Retrieve Structured Multimedia Documents in Digital Libraries. RIAO 2004 Conference on Coupling approaches, coupling media and coupling languages for information retrieval, University of Avignon (Vaucluse), France, April 2004.
94. M. Lalmas and P. Vannoorenberghe. Indexation et recherche de documents XML par les fonctions de croyance (Modelling XML retrieval with belief functions). Premiere COnference en Recherche d'Information et Applications (CORIA) Toulouse, France, March 2004 (in French).
95. B. Piwowarski and M. Lalmas. Interface pour l'évaluation de systemes de recherche sur des documents XML (Interface for the evaluation of XML retrieval systems). Premiere COnference en Recherche d'Information et Applications (CORIA), Toulouse, France, March 2004 (in French).

96. G. Kazai, M. Lalmas, A. Pearmain and M-L Bourguet. Searching annotated broadcast content on mobile and stationary devices. IADIS International Conference in Applied Computing, pp II: 249-252, Lisbon, Portugal, March 2004.
97. G. Kazai, S. Masood and M. Lalmas. A study of the assessment of relevance for the INEX'02 test collection. 26th European Colloquium on Information Retrieval Research (ECIR), pp 296-310, University of Sunderland, UK, April 2004.
98. M. Lalmas and J. Reid. Automatic Identification of Best Entry Points for Focussed Structured Document Retrieval. Poster, ACM Conference on Information and Knowledge Management (CIKM), pp 540-543, New Orleans, Louisiana, USA, November 2003.
99. I. Ruthven, M. Lalmas and T. Roelleke. Abductive retrieval for multimedia information seeking. 10th International Conference on Human - Computer Interaction, HCI International, Crete, Greece, June 2003.
100. G. Kazai, M. Lalmas, M-L. Bourguet and A. Pearmain. Using Metadata to Provide Scalable Broadcast and Internet Content and Services, Proceedings of WIAMIS 2003, 4th European Workshop on Image Analysis for Multimedia Interactive Services, London, April 2003.
101. G. Kazai, M. Lalmas and J. Reid. Construction of a test collection for the focussed retrieval of structured documents. 25th European Colloquium on Information Retrieval Research (ECIR), pp 88-103, Pisa, Italy, April 2003.
102. M. Lalmas. A formal model for data fusion, 5th International Conference on Flexible Query Answering Systems (FQAS), pp 274-288, Copenhagen, Denmark, October 2002.
103. G. Kazai, M. Lalmas and T. Roelleke. Focussed Structured Document Retrieval. 9th International Symposium on String Processing and Information Retrieval (SPIRE), pp 241-247, Lisbon, Portugal, September 2002.
104. A. Graves and M. Lalmas. Video Retrieval using an MPEG-7 Based Inference Network. ACM SIGIR Conference on Research and Development in Information Retrieval, pp 339-346, Tampere, Finland, August 2002.
105. G. Jeschke and M. Lalmas. Hierarchical Text Categorisation based on Neural Network and Dempster-Shafer's Theory of Evidence, EUROFUSE Workshop on Information Systems, Villa Monastero, Varenna, Italy, 23-25 September 2002.
106. M. Lalmas and T. Roelleke. Four-valued Knowledge Augmentation for Structured Document Retrieval. 13th International Symposium on Methodologies for Intelligent Systems (ISMIS), pp 158-166, Lyon, France, June 2002.
107. I. Ruthven, M. Lalmas and C.J. van Rijsbergen. Ranking expansion terms with partial and ostensive evidence, 4th International Conference on Conceptions of Library and Information Science: Emerging Frameworks and Methods (COLIS), Seattle, WA, USA, July 2002.
108. G. Kazai, A. Pearmain, M-L. Bourguet and M. Lalmas. SAVANT: Synchronised and Scalable AV content Across NeTworks. Position Paper in Usability and Evaluation Issues for Interactive Television: Developing a Research Agenda, Workshop at HCI2002, Southbank University, London, UK, September 2002.
109. T. Tsirikika and M. Lalmas. Combining Web document representations in a Bayesian Inference Network model using Link & Content-based evidence. 24th European Colloquium on Information Retrieval Research, (ECIR), pp 53-72, Glasgow, Scotland, March 2002.
110. T. Roelleke, M. Lalmas G. Kazai, I Ruthven and S. Quicker. The Accessibility Dimension for Structured Document Retrieval. 24th European Colloquium on Information Retrieval Research, (ECIR), pp 284-302, Glasgow, Scotland, March 2002.
111. T. Tsirikika and M. Lalmas. Merging Techniques for Performing Data Fusion on the Web. 10th ACM Conference on Information and Knowledge Management (CIKM), pp 181-189, Atlanta, Georgia, November 2001.
112. G. Kazai, M. Lalmas and T. Roelleke. A Model for the Representation and Focussed Retrieval of Structured Documents based on Fuzzy Aggregation. 8th Symposium on String Processing and Information Retrieval (SPIRE), pp 123-135, Laguna de San Rafael, Chile, November 2001.
113. I. Ruthven, M. Lalmas and C.J. van Rijsbergen. Empirical investigations on query modification using abductive explanations. ACM SIGIR Conference on Research and Development in Information Retrieval, pp 181-189, New Orleans, USA, September 2001.

114. M. Hertzum, M. Lalmas and E. Frokjer. How Are Searching and Reading Intertwined during Retrieval from Hierarchically Structured Documents?. 13th International Conference on Human-Computer Interaction (INTERACT), pp. 537-544, Tokyo, Japan, July 2001.
115. D. Ileperuma, M. Lalmas and T. Roelleke. MPEG7 for an integrated access to broadcast and internet data. International Conference on Media Futures, pp 235-238, Florence, Italy, May 2001.
116. P. Healey, E. Moutogianni, M. Lalmas, Y. Paker, D. Papworth and A. Pearmain. Requirements for Broadcast and Internet Integration. International Conference on Media Futures, pp 129-132, Florence, Italy, May 2001.
117. A. Pearmain, M. Lalmas, E. Moutogianni, D. Papworth, P. Healey and T. Roelleke. Using MPEG7 at the Consumer Terminal in Broadcasting. Proceedings of Workshop on Image Analysis for Multimedia Interactive Services, pp 165-170, Tampere, Finland, 2001.
118. M. Lalmas, T. Roelleke, F. Turra and N Fuhr. Concepts for a Graphical User Interface for Hypermedia Retrieval. 4th International Conference on Flexible Query Answering Systems (FQAS), pp 301-314, Warsaw, Poland, October 2000.
119. M. Lalmas. Uniform representation of content and structure for structured document retrieval. 20th SGES International Conference on Knowledge Based Systems and Applied Artificial Intelligence, pp 215-228, Cambridge, UK, December 2000.
120. P. Healey, M. Lalmas, E. Moutogianni, Y. Paker and A. Pearmain. Integrating internet and digital video broadcast data. 4th World Multiconference on Systemics, Cybernetics and Informatics (SCI), Orlando, Florida, USA, July 2000.
121. M. Lalmas and E. Moutogianni. A Dempster-Shafer indexing for the focussed retrieval of a hierarchically structured document space: Implementation and experiments on a web museum collection. 6th RIAO Conference, Content-Based Multimedia Information Access, pp 442-456, Paris, France, April 2000.
122. I. Ruthven, M. Lalmas and C.J. van Rijsbergen. Retrieval through explanation: Inference approach to relevance feedback. 10th Annual Irish Conference on Artificial Intelligence & Cognitive Science (AICS), Cork, Ireland, September 1999.
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204. K. Zhou, R. Cummins, M. Halvey, M. Lalmas and J. Jose. Assessing and Predicting Vertical Intent for Web Queries, *34th European Conference on Information Retrieval (ECIR 2012)*, Barcelona, Spain, 1-5 April 2012 (Poster).
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4 Awards and Research Grants

1. **LiMoSiNe – Linguistically Motivated Semantic aggregatIon engINes** EU STREP Framework 7, 1 November 2011 - 31 October 2014.

The LiMoSiNe will develop approaches that will understand a user’s intent, discover and organise facts, identify opinions, experiences and trends, all from inherently multilingual online sources and open knowledge repositories. LiMoSiNe’s aggregation engines will automatically organise search results in semantically meaningful ways. Partners include University of Glasgow, Llorente & Cuenca Madrid SL, Universidad Nacional de Educacion a Distancia (UNED), and University of Amsterdam.

2. **QOntext – Quantum Contextual Information Access and Retrieval** EU Framework 7, Marie Curie International Research Staff Exchange Scheme, 1 January 2010 - 31 December 2010.

This project was hinged on the belief that the dimensions of context in search can be naturally integrated into a generic and fundamental framework. It was proposed that this framework be based into the quantum theory formalism. Partners include Robert Gordon University, Vrije Universiteit Brussel, Tianjin University, Queensland University of Technology, University of Montreal, and University of Padua.

3. **Community-generated media for the next billion** EPSRC Digital Economy - Research in the Wild, 1 September 2010 - 28 February 2011.

This project aimed to provide significant insights into how social-media sharing systems should be designed and deployed to benefit many billions of people beyond the mainstream “developed” world. Working with Transcape, a NPO based in South Africa, the project will explore a series of novel information ecologies for media sharing in a highly populated, but remote, rural development context. Other partners include Universities of Swansea, Surrey and Cape Town.

4. **PuppyIR – An Open Source Environment to construct Information Services for Children** EU STREP, 1 April 2009 - 31 December 2010.

PuppyIR constructed an Open Source Framework that will provide the infrastructure to develop “child-focused” and “child-friendly” components to be deployed within child information services. Partners include Universities of Twente, Delft, Strathclyde, Leuven, and AMC/Emma Kinderziekenhuis, Museon, and Atos Origin.

5. **A flexible framework for modeling result presentation in XML retrieval** Royal Society, 15 May 2009 - 31 December 2010.

This collaboration with the University of Padua developed a flexible framework for modeling the presentation of retrieval results in XML retrieval.

6. **Renaissance – Context-Sensitive Information Retrieval Based on Quantum Theory: With Applications to Cross-media Search and Structured Document Access** Engineering and Physical Sciences Research Council (EPSRC), 1 November 2007 - 31 October 2010.

This project aimed to make a revolutionary shift of the IR paradigm by developing a novel and unified information retrieval theory based on the Quantum Theory framework to address the emerging challenges of context-sensitive and multimodal search. The proposed theory was applied, evaluated, validated in a number of scenarios: ad hoc IR, interactive IR and summarisation. Project partners include Queen Mary University of London, Robert Gordon University and the Open University.

7. **For Billions – User-Generated Content Systems and Services for Developing Country Contexts** Royal Society, 30 June 2008 - 4 July 2008.

A workshop held in Cape Town, and organized by the University of Cape Town and Swansea University examined potential technologies, algorithms and engineering-design practices for digitally “impoverished” communities to take part in the user-generated content revolution. The overall goal was to make progress towards prescriptive design criteria for successful systems that rapidly reach critical mass.

8. **Aggregated search** Yahoo! Research Alliance, 1 March 2007 - 31 December 2010.

The aim of this project was to produce context-aware web search results, made from the intelligent aggregation of standard web search results.

9. **StoryBank – Sharing stories across digital divides** Engineering and Physical Sciences Research Council (EPSRC), 1 September 2006 - 29 February 2008.

The aim of this project was to provide appropriate technology to allow village communities in the developing world to create and share audiovisual information easily, as a means to bridge the digital divide.

10. **Promising research fellowship** I was awarded an HEFCE Promising Research Fellowship to allow me to build strategic collaborations between the information retrieval group and leading UK research groups working on information access, 1 September 2005 - 31 August 2006.

11. **DELOS – Network of Excellence in Digital Library**, which is providing funding (EU FP6) to run INEX, in collaboration with the University of Duisburg-Essen, 1 January 2004 - 31 December 2007.

12. **MMKM – Multimedia Knowledge Management Network** EPSRC network on managing multimedia data. September 2004 - August 2007.

13. **INEX: Evaluation Initiative for XML Document Retrieval** funded by DELOS Network of Excellence (FP5), in collaboration with the University of Dortmund, 1 April 2002 - 31 December 2002.

The Initiative for the Evaluation of XML Retrieval was a collaborative effort aimed to promote the evaluation of content-oriented XML retrieval, by setting up an infrastructure and providing means, in the form of a large-scale XML test collection and uniform scoring procedures.

14. **QUEST – Query reformulation for structured document retrieval** Alliance / British Council Project, in collaboration with Institut de Recherche en Informatique de Toulouse, 1 January 2003 - 31 December 2004.

The objective was to investigate intelligent mechanisms for the automatic reformulation of queries for the effective retrieval of XML documents. The mechanisms combine content, structural, and semantic knowledge to support users in accessing large collections of structured documents.

15. **SAVANT – Synchronised and scalable Audio-Visual content Across NeTworks** EU Framework 5, 1 May 2002 - 30 September 2004.

This project developed integrated broadcast and Internet technologies employing broadcast and telecom networks to deliver personalised multimedia content to end users in order to achieve added-value services to conventional digital and interactive television. We also developed tools to access and retrieve this multimedia content, using MPEG-7, TV-Anytime and MPEG-21 for describing the multimedia content.

16. **FOCUS II – Focussed retrieval of structured documents** British German Academic Research Collaboration Programme, in collaboration with the University of Dortmund, 1 July 2000 - 31 March 2003.

The objective of this research project was to investigate effective and efficient methods for managing large collections of structured documents (e.g., XML, SGML, HTML). We investigated efficient and effective representation and querying techniques, and designed interfaces, combining the content and the structure of XML documents to perform focussed retrieval.

17. **FOCUS – Focussed retrieval of structured document - A large experimental study** Engineering and Physical Sciences Research Council (EPSRC), 1 September 2000 - 31 December 2001.

This research was aimed at developing, implementing and evaluating models for focussed retrieval of structured documents. We investigated representation techniques combining content and structural knowledge to focus retrieval to those document parts that constitute the best entry points to the document structure. Best entry points are relevant document components from where users can browse to access further relevant information.

18. **GRIS – Information seeking behaviours in structured document retrieval** Royal Society ESEP Joint Project Grant, in collaboration with the Centre for Human Machine Interaction, Risø National Laboratory, Denmark, 1 April 2000 - 31 March 2002.

The aim of this project was to investigate the information seeking behaviours of users querying, browsing, and retrieving structured documents. Our research goals were to predict user behaviours and information seeking strategies for structured document retrieval, develop prototype designs for searching and retrieving structured documents, and evaluate these prototype designs with controlled user experiments.

19. **Retrieval through Explanation: An abductive inference approach to relevance feedback** Library and Information Commission Project, in collaboration with the Department of Computer Science, University of Glasgow, 1 November 1999 - 31 October 2001.

In this project we view relevance feedback as a process of explanation based on how information is used within relevant documents. We used abductive logic to produce a set of possible explanations for why a user marked a number of documents relevant. From the set of possible explanations, one explanation, known as the best possible explanation, is selected to reformulate the query. The selection is guided by a number of factors, such as the previous search history.

20. **SAMBITS – System for Advanced Multimedia Broadcast and IT Services** EU Framework 5, 1 January 2000- 31 December 2001.

This project was concerned with the development of systems for advanced multimedia broadcast and IT services. We designed access methods and interfaces for navigation and retrieval of complex digital multimedia data annotated with MPEG-7.

21. **OntoWeb – Ontology-based information exchange for knowledge management and electronic commerce** EU Framework 5 - Thematic Network, 2001 - 2004.

The goal of the OntoWeb Network was to bring together researchers and industrials promoting interdisciplinary work and strengthening the European influence on Semantic Web standardisation efforts such as those based on RDF and XML. Our group was involved in the development of search facilities for a Semantic Web educational site.

5 Leadership, Management and Administration

User engagement 2011- now, working with a team based in Yahoo! Labs developing innovative metrics of web user engagement, and measuring engagement not only within sites, but across sites (e.g. Yahoo! network of properties) and accounting for the increasingly multi-tasking behaviours of online users. The metrics are built through the analysis of user behaviour, web analytics, the analysis of users' emotion and attention and mouse movement. The role of social media both in terms of metrics and audience is also investigated, in the context of journalism and news media, and serendipitous search.

Foundation work on Quantum Theory for Information Retrieval 2008-2010, following Van Risbergen seminal book entitled "The Geometry of Information Retrieval", and the awarding of the large EPSRC grant Renaissance, we developed a novel quantum-inspired framework for modelling complex information access processes. We successfully applied our framework to three areas, document ranking (our first major publication about this research), accounting for cognitive aspects through poly-representation (our paper was nominated for a best paper award at IiX 2010), and recently multi-document summarisation (this paper shows our strongest results, in terms of effectiveness, but also explaining the limitations of other approaches, and how to alleviate them.)

Co-leader of INEX 2002-2007, where INEX stands for the initiative for content-oriented XML retrieval, a large-scale project with over 80 participating organisations worldwide. I was responsible for defining the nature of XML retrieval, and how it should be evaluated. In addition to my research on the evaluation of content-oriented XML retrieval, my role included the daily management of the project. This involved strategic decisions, documentations and reports, infrastructure set-up and maintenance, preparation of the annual INEX workshops and editing of the proceedings, published in LNCS, Springer. Furthermore, I led around 20 researchers on various tasks and activities in INEX, where it should be noted that all these researchers contributing to INEX on a voluntary basis. INEX has promoted extensive collaboration between researchers and institutions, and most of the research on XML retrieval was made possible because of INEX.

Deputy director of research 2004-2008, whose role was to assist the Director of Research making my then department a centre of excellence in research, to promote a research culture in the department, with a strong focus on interdisciplinary research. For instance, I organised departmental events such as "how to write grant proposals", managed the set-up of the department research infrastructure, e.g. grant databases, and was actively involved in the planning and development of QMedia and QMath, two interdisciplinary research centres between the computer science, electronic engineering and mathematics departments.

Head of the Maths/EE/CS interdisciplinary consortium 2007-2008, whose role was to assist my then college in its strategy to promote interdisciplinary research. I was responsible for interdisciplinary research and activities between the Department of Computer Science, the Department of Electronic Engineering, and the School of Mathematical Sciences.

Head of the Queen Mary Information Retrieval (QMIR) research group, 2003-2008. Through my work and that of my colleagues, QMIR became one of the leading IR groups in Europe, with four full academic staff. We had a broad portfolio including foundational work on structured document retrieval, knowledge-based uncertain reasoning, formal models, integration of database and retrieval technologies, machine translation and cross-lingual retrieval, personalisation, document clustering and summarisation, evaluation of retrieval systems, and information seeking.

6 Scholarly and professional activities

6.1 Editorial boards

- Member of the Editorial Board for The Computer Journal, 2013-present.
- Information Retrieval (IR), 2008-present.
- Information Processing & Management (IP&M), 2004-present.
- International Journal of Digital Libraries (IJDL), 2011-present.
- International Journal of Digital Library Systems (IJDS), 2010-present.
- ACM Transactions on Information Systems (TOIS), 2007-2011.

6.2 Additional appointments

1. Member of the Steering Committee of the RepLab evaluation forum (Access technologies for Online Reputation Management), 2012-present.
2. Honorary Research Fellow, University of Glasgow, 2011-2013.
3. INEX Steering Committee, 2008-present.
4. William Evans Visiting Fellow, University of Otago, New Zealand, Spring 2008.
5. Visiting Professor at the Informatics Research Institute, University of Salford, 2006-2007.
6. Visiting Professor at the School of Informatics, University of Edinburgh, May 2006.
7. Visiting Professor at the Dpto. de Tecnologia, Universitat Pompeu Fabra, Barcelona, Spain, February-March 2006.
8. Visiting Researcher, Microsoft Research Cambridge, October 2005.
9. Visiting Professor at LIP6, Laboratoire d'Informatique de Paris 6, Paris, France, 2003-2004.
10. Adjunct Lecturer in the Faculty of Engineering and Computing, at the University of Technology, Jamaica, 2002-2006.
11. Honorary lecturer, Department of Computing Science, University of Glasgow, 1999-2001.

6.3 Chairs, organisers and other senior roles

1. Co-organiser of Workshop on Benchmarking Adaptive Retrieval and Recommender Systems, to be held at SIGIR 2013, Dublin (with P. Castells, F. Hopfgartner, M. Lalmas and A. Said).
2. Doctoral Consortium co-chair for 36th ACM SIGIR Conference on Research and Development in Information Retrieval, Dublin, Ireland, 28 July-1 August, 2013 (with G. Hui Yang & J. Salvador Arguello).
3. Workshop co-chair of International Conference on Theory and Practice of Digital Libraries (TPDL), Valletta, Malta, September 22-26, 2013 (with Lszl Kovcs).
4. Area Chair "Web IR and Social Media Search" for the 36th ACM SIGIR Conference on Research and Development in Information Retrieval, Dublin, Ireland, 28 July-1 August, 2013.
5. Member of the Senior Programme Committee for Conference on Information Retrieval (ECIR), Moscow, Russia, 24-27 March 2013.
6. Member of the Senior Program Committee (IR track) for 21st ACM International Conference on Information and Knowledge Management (CIKM 2012), Maui, USA, 29 October-2 November 2012.
7. Area Chair "Users and Interactive IR" for the 35th ACM SIGIR Conference on Research and Development in Information Retrieval, Portland, Oregon, USA August 12-16, 2012.
8. Doctoral Consortium Co-Chair for 35th ACM SIGIR Conference on Research and Development in Information Retrieval, Portland, Oregon, USA, 12-16 August 2012 (with M. de Rijke).
9. Student Mentoring Chair for 34th European Conference on Information Retrieval (ECIR), Barcelona, Spain, 1-5 April 2012.
10. Doctoral Consortium Co-Chair for ACM/IEEE Joint Conference on Digital Libraries (JCDL), June 10-14, 2012, Washington DC, USA (with L. Freund).
11. Member of the Senior Programme Committee for Fifth ACM International Conference on Web Search and Data Mining (WSDM), Seattle, Washington February 9-12, 2012.

12. Programme co-Chair for Conference on Multilingual and Multimodal Information Access Evaluation (CLEF 2011), 19-22 September 2011, Amsterdam (with J. Kekalainen).
13. Member of the Senior Programme Committee for a 20th ACM Conference on Information and Knowledge Management (CIKM), Glasgow, Scotland, UK, 24th-28th October 2011.
14. Area Chair “IR and Structured Data” for 34th ACM SIGIR Conference on Research and Development in Information Retrieval, Beijing, China, 24-28 July 2011.
15. Programme co-chair for First International Workshop on Social Media Engagement (SoME 2011), WWW 2011 Workshop, March 28 or 29, 2011, Hyderabad, India (with A. Jaimes and Y. Volkovich).
16. Member of the Senior Programme Committee for for The Fourth ACM International Conference on Web Search and Data Mining (WSDM), Hong Kong, 2011.
17. General co-chair for 14th European Conference on Research and Advanced Technology for Digital Libraries, University of Glasgow, September 2010 (with J. Jose).
18. Workshop chair for 19th ACM Conference on Information and Knowledge Management (CIKM 2010), Toronto, 25-29 October 2010.
19. Tutorial co-chair for 2010 IEEE / WIC / ACM International Conferences, 31 August - 3 September 2010, Toronro, Canada (with Sourav Saha Bhowmick).
20. Member of the Programme Committee for International Academic Research Conference, ACM-BCS Visions of Computer Science 2010, 13-16 April 2010, The University of Edinburgh, UK.
21. Mentoring Chair for for 32 ACM SIGIR Conference on Research and Development in Information Retrieval, 19-23 July 2009, Boston, Massachusetts, USA.
22. Vice Chair for the XML and Web Data track at the World Wide Web (WWW) conference, Madrid, Spain, 20-24 April 2009.
23. Publicity Chair for 17th ACM Conference on Information and Knowledge Management, Napa Valley Marriott Hotel & Spa: Napa Valley, California 26-30 October, 2008.
24. Co-chair for the ACM SIGIR 2008 Workshop on Aggregated Search, Singapore, 24 July 2008 (with V. Murdock).
25. Area Chair on “Experimentation” at the 4th Asia Information Retrieval Symposium (AIRS 2008), Harbin, China, 16-18 January 2008 (with N. Kando).
26. Member of the Senior Programme Committee for the 30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Amsterdam, The Netherlands, 23-27 July 2007.
27. Co-leader of INEX, the Evaluation initiative for XML retrieval, 2002-2007 (with N. Fuhr).
28. General co-chair for IiX 2008, Second Symposium on Information Interaction in Context, London, October 2008 (with A. Tombros).
29. Programme chair for the 28th European Conference on Information Retrieval Research (ECIR), Imperial College, UK, London, 10-12 April 2006.
30. Workshops co-chair for 29th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), Seattle, WA, August 6-11, 2006 (with P. Anick).
31. Poster co-chair for the 28th ACM SIGIR Conference on Research and Development in Information Retrieval, Salvador, Brazil, 15-19 August, 2005 (with D. Kelly and G. Navarro).
32. Co-organiser of the INEX 2005 Workshop on Element Retrieval Methodology, held as part of the Information Retrieval research festival at the University of Glasgow, UK, 30 July 2005 (with N. Fuhr and A. Trotman).
33. Co-organiser of the London 2004, 2006, and 2007 London Hopper Colloquiums, a regional event of the women@CL project.
34. Workshops Chair for 27th ACM SIGIR Conference on Research and Development in Information Retrieval, Sheffield, UK, 25 - 29 July 2004
35. Co-organiser of ACM SIGIR Workshop on Formal/Mathematical Methods for Information Retrieval (MF/IR), Athens, Greece, 2000, New Orleans, Louisiana, USA, 2001, Tampere, Finland, 2002, Toronto, Canada, 2003 (with D. Sandor and C.J. van Rijsbergen).
36. Co-organiser of the Workshop on Logical and Uncertainty Models for Information Systems (LUMIS), London, UK, 1999, Greenwich, UK, 2000 and Munich, Germany, 2001.
37. Co-organiser of the Workshop on Evaluation of Information Management Systems, Queen Mary University of London, UK, 15 September 2000 (with J. Reid).

38. Co-organiser of the Text Retrieval conference, UK, London, UK, 1999, Ipswich, UK, 2001.
39. Co-organiser of the IEE event on Searching information: Information retrieval and artificial intelligence approaches, Glasgow, UK, 11-12 November 1999 (with A. Cawsey and C.J. van Rijsbergen).
40. Co-organiser of the Workshop on Information Retrieval, Logic and Uncertainty (WIRUL), Glasgow, UK, 1995, Glasgow, UK, 1996.

6.4 Programme committees

I am or have been a programme committee member of most conferences and workshops on information retrieval research and related areas. These include ACM Conference on Research and Development in Information Retrieval (SIGIR); ACM Conference on Information and Knowledge Management (CIKM); BCS IRSG European Conference on Information Retrieval Research (ECIR); Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT); International Conference On Flexible Query Answering Systems (FQAS); Conference en Recherche d'Information et Applications (CORIA); European Conference on Research and Advanced Technology for Digital Libraries (ECDL); Symposium on String Processing and Information Retrieval (SPIRE); Conference on Music Information Retrieval (ISMIR); ACM Symposium in Applied Computing (SAC) Track on Information Access and Retrieval; Symposium on Information Interaction in Context (IIX); IEEE International Conference on Intelligent Systems; Open research Areas in Information Retrieval (RIO, OAIR); International Conference on Scalable Information Systems (INFOSCALE); International Conference on Applications of Natural Language to Information Systems (NLDB); International Conference on Scalable Uncertainty Management (SUM); Symposium on Future Directions in Information Access (FDIA); Asia Information Retrieval Symposium (AIRS); International Conference on Theory of Information Retrieval (ICTIR); International Semantic Web Conference (ISWC); International Workshop on Evaluating Information Access (EVIA); World Wide Web (WWW); Conference on Knowledge Discovery and Data Mining (KDD); International Semantic Web Conference (ISWC); ACM International Conference on Web Search and Data Mining (WSDM); Interaction and Information Retrieval (HCIR); Russian Summer School in Information Retrieval (RuSSIR); VLDB (Very Large Databases Conference); IEEE International Conference on Big Data (IEEE BigData); Computational Linguistics (COLING).

6.5 Presentations, Seminars, and Tutorials

1. To be or not be engaged: What is the question (to ask)? Keynote speaker at 17th International conference on Applications of Natural Language Processing to Information Systems (NLDB), Manchester, June 2013.
2. Tutorial on Measuring User Engagement, International World-Wide Web Conference (WWW), 13-17 May 2013, Rio de Janeiro, Brazil (with H. O'Brien & E. Yom-Tov).
3. Speaker "Measuring Web User Engagement: a melting pot of web analytics, focus attention, positive affect, user interest, saliency, mouse movement and online multitasking" at Women in Science and Engineering Workshop, Edinburgh, 28 March 2013.
4. Measuring Web User Engagement: a melting pot of web analytics, focus attention, positive affect, user interest, mouse, gaze, sentimentality, saliency, etc. Keynote at WSDM 2013 Workshop on Web Search Click Data, Rome, 4 February 2014.
5. Invited seminars "Measuring Web User Engagement: a melting pot of web analytics, focus attention, positive affect, user interest, saliency, mouse movement and online multitasking" at Royal Holloway University (12 February 2013), University of Duisburg-Essen (5 April 2013).
6. User engagement in the digital world, Opening keynote speaker at Theory and Practice of Digital Libraries (TPDL) – former ECDL – Pafos, Cyprus, 23-27 September 2012.
7. Session, Focus, and Engagement, Opening keynote at ECIR 2012 Workshop on Information Retrieval Over Query Sessions, 1 April 2012, Barcelona, Spain.
8. User Engagement: A Scientific Challenge, Invited Seminar at UNED, Madrid, Spain, 12 April 2012, Seminars at the Faculty of Informatics, University of Lugano, 21 March 2012, University of Texas in Austin iSchool Seminar series, 21 February 2012.
9. Lectures (Introduction to IR and IR Models) at IR Summer School organised by Yahoo! and IISC in Bangalore, 20-25 June, Bangalore, India.

10. Lecture on Aggregation for Searching Complex Information Spaces, Leuven ICT (LICT) center Distinguished Lecture Program, 10th May 2011.
11. Towards a Science of User Engagement, Invited talk at SIKS seminar: Something on Search and Searchers, Amsterdam, 15 April 2011.
12. Aggregation for searching complex information spaces, Invited Talk at Harvey Mudd College, 9 February 2011.
13. Member of the panel on “The 4 Ladies of Experimental Evaluation” at the Conference on Multilingual and Multimodal Information Access Evaluation, 20-23 September 2010, Padua.
14. XML Retrieval. Course at the 4th Russian Summer School in Information Retrieval, September 13-18, 2010, Voronezh, Russia.
15. From federated to aggregated search. Tutorial at 33rd ACM SIGIR Conference on Research and Development in Information Retrieval, 19-23 July 2010, Geneva, Switzerland (with F. Diaz and M. Shokouhi).
16. Aggregation for searching complex information spaces. Invited talk at 5th IEEE International Conference on Intelligent Systems (IS), 2010, University of Westminster, London 7-9 July 2010.
17. Building for interaction and measuring for engagement. Seminar at Yahoo! Research Barcelona, 10 June 2010.
18. Understanding aggregated search. Yahoo! Research Barcelona, May 2009; University of Swansea, May 2010.
19. Semi-structured Data. Lecture at the 7th European Summer School in Information Retrieval, ESSIR2009, University of Padua, Italy, August 31 - September 4, 2009.
20. TrebleCLEF Panel on Evaluation in Information Retrieval, ESSIR2009, University of Padua, Italy, 2 September, 2009.
21. Speaker at the Computer Science 2008: student research conference, on Digital Divide, Cambridge, 15-17 December, 2008 (with Matt Jones).
22. Information Retrieval: from focused to aggregated answers. University of Otago, New Zealand, April 2008; CSIRO, Canberra, Australia, April 2008; University of Lugano, May 2008; National Centre for Text Mining, University of Manchester, June 2008.
23. Accessing XML content - An information retrieval perspective. Invited tutorial at the 3rd cycle (PhD) students) from the French speaking part of Switzerland on Information technology on the Web, Champéry, 28 January - 1 February 2008.
24. Focusing the search process to segments. Invited presentation at the Information Retrieval Facility (IRF) Symposium, Science Meets Industry, Vienna, Marriott Hotel, 8-9 November 2007.
25. XML Retrieval: IR and DB Challenges. Tutorial at the 16th ACM Conference on Information and Knowledge Management (CIKM), Lisboa, Portugal, November 2007 (with S. Amer-Yahia, R. Baeza-Yates, and M.P. Consens).
26. XML Retrieval: DB/IR in Theory, Web in practice. Tutorial at the 33rd International Conference on Very Large Data Bases, Vienna, Austria, 23-28 September 23-28, 2007 (with S. Amer-Yahia, R. Baeza-Yates, and M.P. Consens).
27. Structure/XML retrieval. Invited tutorial at the 6th European Summer School in Information Retrieval (ESSIR), Glasgow 27-31 August, 2007.
28. XML Retrieval: Integrated IR-DB Challenges and Solutions, Tutorial at the 30th Annual International ACM SIGIR Conference on Research & Development on Information Retrieval, Amsterdam, 2007 (with S. Amer-Yahia, R. Baeza-Yates and M.P. Consens).
29. Panel member at SIGIR 2007 Workshop on Focused Retrieval (Question Answering, Passage Retrieval, Element Retrieval), Amsterdam, The Netherlands, 27 July 2007.
30. Beyond XML Retrieval, Invited talk on the Future of Web Search, University Residential Center, Bertinoro (Forl-Cesena), Italy, June 18-20, 2007.
31. Content-oriented XML Retrieval: What have we learned? Invited talk, School of Computing Sciences, University of East Anglia, 26 April 2007.
32. Panel member at IiX - First Symposium on Information Interaction in Context, 2006.
33. XML Information Retrieval, Tutorial at the 29th Annual International ACM SIGIR Conference on Research & Development on Information Retrieval, Seattle 2006 (with R. Baeza-Yates).

34. Invited seminar on XML Retrieval and Evaluation, Open University, October 2005; University of Edinburgh, December 2005; University of Granada, February 2006.
35. Invited presentation, Information Retrieval, Motherhood and Belly Dancing, BCS Equalitec Workshop on Internet Computing, 4 May 2006.
36. Seminar on New Trends on Intelligent Systems and Soft Computing, PhD Program Design, Analysis and Applications of Intelligent Systems, "XML retrieval: A content-oriented perspective", University of Granada, 16-17 February 2006.
37. Accessing XML Content: From DB and IR Perspectives, Tutorial at the 14th Conference on Information and Knowledge Management (CIKM), Bremen, Germany, 31 October - 5 November, 2005 (with S. Amer-Yahia)
38. Structure/XML retrieval. Invited tutorial at the 5th European Summer School in Information Retrieval (ESSIR), Dublin, 5-9 September 2005.
39. XML retrieval and evaluation: Where are we? Invited Talk at the 5th Dutch-Belgian Information Retrieval Workshop (DIR), Utrecht, The Netherlands, 10-11 January 2005.
40. INEX: Evaluating content-oriented XML retrieval. Invited Talk, Department of Computing Science, University of Glasgow, Scotland, UK, 22 March 2004.
41. Evaluating XML retrieval: The INEX initiative. Invited Talk, School of Computer Science and Information Systems, Birkbeck University of London, England, UK, 16 March 2004.
42. XML retrieval: from modelling to evaluation. Invited Talk at the Premiere Conference en Recherche d'Information et Applications (CORIA), Toulouse, France, 10-12 March 2004.
43. Evaluating content-oriented XML retrieval: The INEX initiative. Invited Talk, University of Rouen, France, 12 February 2004.
44. Seeking Information: Methods from Information Retrieval and Artificial Intelligence, Tutorial at the European Conference on Intelligence Artificial (ECAI), Lyon, France, 21-26 July 2002 (with A. Cawsey and T. Roelleke).
45. Lecture on Information Retrieval and Logics, 3rd European Summer School in Information Retrieval (ESSIR), Varenna, Lago di Como, 11-15 September 2000 (with F. Crestani).
46. Seeking Information: Methods from Information Retrieval and Artificial Intelligence, Tutorial at the European Conference on Intelligence Artificial (ECAI), Berlin, Germany, 20-21 August 2000 (with D. Fensel).
47. Guest lectures in Information Retrieval and Structured Document Retrieval at: University of Concordia, Quebec, October 1993; University of Dortmund, February 1998; University of Salford, January 1999, January 2000, University of Glasgow, March 1999.
48. The use of Logic in Information Retrieval Modelling, Tutorial at the ACM SIGIR Conference on Research and Development in Information Retrieval, Zurich, Switzerland, August 1996 (with P.D. Bruza).
49. Lecture series in Montague Semantics, Department of Computing Science, University of Glasgow, April 1991.

6.6 Professional services

1. Chartered Fellow of the British Computer Society (BCS), 2005-present.
2. Member of ACM, 2006-present.
3. Member of the EPSRC College, 2003-2011.
4. ACM SIGIR (elected) Vice Chair, 2007-2010.
5. ACM SIGIR Information Director, 2005-2007.
6. Vice-chair of the BCS IRSG 1999-2000.
7. Member of ACM SIGIR, 2004-present.
8. Member of BCS IRSG, 1995-present.
9. Member of EPSRC network Women@CL promoting women in computing research, 2004-2006.
10. Member of the BCS IRSG committee with responsibilities for overseeing the organisation of one-day meetings, 1997-2002.
11. Member and co-founder of the London Knowledge Management Network, 2000-2006. (<http://km.doc.ic.ac.uk/london/>).
12. Member of the IEE Professional Group Committee A4 (Artificial Intelligence), 1998-2000.

7 References

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