

**Curriculum Vitae et Studiorum
of
Fabrizio Sebastiani**

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Chapter 1

Brief CV

1.1 Personal data

Born in Cavalese, Northern Italy, in 1960. Lives in Doha, Qatar. Married, one child.

1.2 Degrees and qualifications

- In January 2014 FS has obtained from the Italian Ministry of University and Scientific Research the Italian National Scientific Qualification to University Full Professor for the disciplinary group “01/B1 - Computer Science”.
- In December 2013 FS has obtained from the Italian Ministry of University and Scientific Research the Italian National Scientific Qualification to University Full Professor for the disciplinary group “09/H1 – Information Processing Systems”.
- In April 1986 FS received a “Laurea” in Computer Science, *summa cum laude*, from the Department of Computer Science, University of Pisa, with a thesis in computational linguistics on the semantic interpretation of technical descriptive language.

1.2.1 Proficiency in English

- IELTS (“International English Language Testing System”) certificate, awarded with best marks, issued by the University of Cambridge, UK, 1993.
- “Certificate of Proficiency in English”, issued by the University of Cambridge, UK, 1979.

1.3 Employment history

- (July 2014 - today): Position as a Principal Scientist, Qatar Computing Research Institute, Qatar Foundation, Doha, Qatar (on leave from the Italian National Council of Research).
- (March 2006 - today): Permanent position as a Senior Researcher, Italian National Council of Research (at Istituto di Scienza e Tecnologia dell’Informazione – ISTI-CNR, Pisa, Italy).

- (January 2005 - February 2006): Permanent position as an Associate Professor, Department of Pure and Applied Mathematics, University of Padova, Italy.
- (January 2002 - December 2004): Permanent position as a Senior Researcher, Italian National Council of Research (at Istituto di Scienza e Tecnologia dell'Informazione – ISTI-CNR, Pisa, Italy).
- (April 1988 - December 2001): Permanent position as a Researcher, Italian National Council of Research (at Istituto di Scienza e Tecnologia dell'Informazione – ISTI-CNR, Pisa, Italy, formerly Istituto di Elaborazione dell'Informazione – IEI-CNR).
- (May 1986 – March 1988): Contract Researcher, Department of Linguistics, University of Pisa, Italy.

1.4 Visiting research fellowships and professorships

- (March 2005) Visiting Professor, Department of Computer Science, Université Pierre et Marie Curie (“Paris VI”), Paris, France.
- (September 1999) Visiting Professor, ISISTAN, Universidad Nacional del Centro de la Provincia de Buenos Aires, Tandil, Argentina.
- (April 1998 – June 1998) Visiting Research Fellow, Department of Computer Science, University of Dortmund, Germany.
- (September 1993 – August 1994) Visiting Research Fellow, Department of Computer Science, University of Glasgow, UK.
- (September 1989 – August 1990) Visiting Research Fellow, Department of Computer Science, University of Toronto, Canada.

1.5 Current research interests

Current research interests include themes at the intersection of information retrieval, machine learning, and statistical natural language processing, i.e.

- Distant learning techniques for microblog classification (with Tarek El-Ganainy, Walid Magdy, and Hassan Sajjad)
- Models and learning algorithms for quantification, a variant of classification in which the interest is not in correctly classifying each individual document but in correctly estimating the class distribution (i.e., in correctly estimating the prevalence of each class) in the test data (with Andrea Esuli, Fosca Giannotti, Letizia Milli, Anna Monreale, Dino Pedreschi, and Giulio Rossetti)
- Models and learning algorithms for semi-automated classification, a variant of classification in which the automatically classified documents must be ranked in such a way as to optimize the work of a human assessor who inspects (and corrects where appropriate) some of the documents with the goal of improving the overall accuracy of the automatically classified set (with Giacomo Berardi and Andrea Esuli)

- Models and algorithms for the classification (by topic and by sentiment) of answers to open questions in surveys, and their applications in market research, customer relationship management, and the social sciences (with Andrea Esuli and Marco Pennacchiotti)
- Models and learning algorithms for the cross-lingual classification of websites by industry sector (with Alejandro Moreo Fernandez, Giacomo Berardi, Andrea Esuli, and Tiziano Fagni)
- Models and learning algorithms for information extraction in the medical domain (with Andrea Esuli and Diego Marcheggiani)
- Models and learning algorithms for native language identification (with Felice Dell'Orletta and Tiziano Fagni)
- Models and learning algorithms for social sensing (with Maurizio Tesconi)
- Evaluation measures for binary, multiclass, and ordinal classification

1.6 Projects and grants (recent)

- He has been the **Principal Investigator** for the ISTI-CNR unit of the VCS-Ascribe2 Project (2011- June 2014), funded by the Language Logic LLC company (Cincinnati, US). (Funding for FS's unit: US\$ 450,000)
- He has been the **Leader of an ISTI-CNR sub-unit** for the PSP ASSETS project (2010-2012), funded by the European Union. (Funding for FS's unit: EUR 151,200)
- He has been the **Principal Investigator** for the ISTI-CNR unit of the VCS-T3D project, funded by the The 3rd Degree Inc company (London, UK). (Funding for FS's unit: GBP 90,000)
- He has been the **Principal Investigator** for the ISTI-CNR unit of the MiningForLife project (2009-10), funded by the NoemaLife SpA company (Bologna, IT). (Funding for FS's unit: EUR 52,800)
- He has been the **Principal Investigator** for the ISTI-CNR unit of the Semantic Scouting project (2009), funded by the Head Office of the Italian National Council of Research. (Funding for FS's unit: EUR 8,900)
- He has been the **Principal Investigator** for the ISTI-CNR unit of the VCS-Ascribe project (2007-2011), funded by the Language Logic LLC company (Cincinnati, US). (Funding for FS's unit: US\$ 150,000)
- He has been the **Leader of an ISTI-CNR sub-unit** of the NeP4B project (2006-2009), funded by the Italian Ministry of University and Research. (Funding for FS's unit: EUR 121,000)
- He has been the **Principal Investigator** for the DM-UniPD unit of the project "Techniques for the automatic classification of patents" (2006-2008), funded by the University of Padova. (Funding for FS's unit: EUR 21,148)
- He has been the **Principal Investigator** for the ISTI-CNR unit of the VCS-Egg project (2004-06), funded by the Egg plc company (London, UK). (Funding for FS's unit: EUR 169,695)

- He has been the **Principal Investigator** of the OPTEX project (2004-06), funded by the Head Office of ISTI-CNR. (Funding for FS's unit: EUR 55,000)
- He has been the **Principal Investigator** for the ISTI-CNR unit of the ON-TO-TEXT project (2004-07), funded by the Regional Government of Trentino, IT. (Funding for FS's unit: EUR 126,322)
- He has been the **Principal Investigator** for the ISTI-CNR unit of the WEB-FAQ project (2001-03), funded by the Regional Government of Trentino, IT. (Funding for FS's unit: EUR 24,169)

1.7 Appointments

1.7.1 Appointments by international research bodies

- Since July 2013 to date FS has been a member of the Steering Committee of the *European Laboratory on Big Data Analytics and Social Mining* (<http://www.sobigdata.eu/>).
- Since January 2013 to date FS has been a member of the Steering Committee of the IIR (Italian Information Retrieval Workshop) workshop series.
- Since October 2011 to date FS has been a member of the Steering Committee of the SPIRE (International Symposium on String Processing and Information Retrieval) conference series.
- Since September 2010 to date FS has been a member of the Steering Committee of the TPDFL (International Conference on the Theory and Practice in Digital Libraries) conference series.
- Since 2008 he has been a member of the Steering Committee of the Forum for Information Retrieval Evaluation (FIRE – <http://www.isical.ac.in/~fire/>)
- Since 2004 to 2006 FS has been a Member of the Advisory Board of Integrated Project SEKT (“Semantically-Enabled Knowledge Technologies”), funded by the 6th Framework Program of the Commission of the European Communities.
- In 2003 FS was elected Vice-Chairman of ACM SIGIR, the Special Interest Group on Information Retrieval of the Association for Computing Machinery, for the term July 2003 - June 2005. This term of office was later extended to the term July 2005 - June 2007.
- Since April 2003 to March 2004 FS has been a Member of the Steering Committee of the *Information Retrieval Specialist Group* of the *British Computer Society*.
- Since September 2002 to June 2003 FS has been the Membership Coordinator of ACM SIGIR, the Special Interest Group on Information Retrieval of the Association for Computing Machinery.
- Since October 1998 to November 2004, when he stepped down, FS has been the Italian representative of the American Society for Information Science and Technology (ASIST).

1.7.2 Member of editorial boards of international journals and series

- Since July 2014 to date FS has been an **Editor for Europe, the Middle East, and Africa** of the “Information Retrieval” book series (Springer Verlag).
- Since January 2012 to date FS has been an Associate Editor and a member of the Editorial Board of the *AI Communications* journal (IOS Press).
- Since August 2007 to date FS has been an Associate Editor and a member of the Editorial Board of the *ACM Transactions on Information Systems* journal (ACM Press).
- He has been the Founding Editor (with Jamie Callan) of *Foundations and Trends in Information Retrieval* (Now Publishers), of which he has been a co-Editor-in-Chief (with Jamie Callan and then with Doug Oard) since October 2004 to May 2012, and of which he is now a member of the Editorial Board.
According to SCIMAGO, *Foundations and Trends in Information Retrieval* is the #3 journal in Computer Science (out of 1,081 listed) by Scimago Journal Rank index (was #1 in 2011 and #3 in 2010).
- Since October 2004 to date FS has been a member of the Editorial Board of the *Information Retrieval* journal (Springer).
- Since September 2002 to March 2014 FS has been a member of the Editorial Board of the *Information Processing & Management* journal (Elsevier).
- Since November 2004 to May 2009 FS has been a member of the Editorial Board of the *Journal of the American Society for Information Science and Technology* (John Wiley & Sons).
- From January 2003 to December 2005 (when he has stepped down) FS has been a member of the Editorial Board (the only non-US member) of *ACM Computing Reviews*, for which he was responsible of the area “H1-H4 Information Systems”.

1.7.3 Chairman of conferences and workshops

He is or he has been the **General Chairman**

1. of the *39th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2016)*, Pisa, IT, 2016
2. of the *4th Italian Information Retrieval Workshop (IIR 2013)*, Pisa, IT, 2013
3. of the *18th International Symposium on String Processing and Information Retrieval (SPIRE 2011)*, Pisa, IT, 2011
4. of the *25th European Conference on Information Retrieval (ECIR 2003)*, Pisa, IT, 2003

He has been the **Program Chairman**

1. of the *6th Italian Information Retrieval Workshop (IIR 2015)*, Cagliari, IT, 2015

2. of the *14th European Conference on Digital Libraries (ECDL 2010)*, Glasgow, UK
3. of the *31st ACM International Conference on Research and Development in Information Retrieval (SIGIR 2008)*, Singapore, SN
4. of the *25th European Conference on Information Retrieval (ECIR 2003)*, Pisa, IT
5. of the *2nd Workshop on Operational Text Classification Systems (OTC 2001)*, co-located with the *25th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2002)*, Tampere, FI
6. of the *1992 ERCIM Workshop on (European Research Consortium for Informatics and Mathematics) Theoretical and Experimental Aspects of Knowledge Representation*, Pisa, IT

He has been a **Vice-Chair / Area Chair / Metareviewer / Member of the Senior Program Committee**

1. of the *37th European Conference on Information Retrieval (ECIR 2015)*, Vienna, AT, 2015
2. (for the area “Human Language Technology Applications”) of the *1st Computational Linguistics Italian Conference (CLIC 2014)*, Pisa, IT, 2014
3. (for the area “Document Representation and Content Analysis”) of the *37th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2014)*, Brisbane, AU, 2014
4. of the *36th European Conference on Information Retrieval (ECIR 2014)*, Amsterdam, NL, 2014
5. of the *35th European Conference on Information Retrieval (ECIR 2013)*, Moscow, RU, 2013
6. of the *34th European Conference on Information Retrieval (ECIR 2012)*, Barcelona, ES, 2012
7. (for the area “Information Retrieval”) of the joint *49th Annual Meeting of the Association for Computational Linguistics and Human Language Technologies Conference (ACL-HLT 2011)*, Portland, US, 2011
8. of the *4th ACM International Conference on Web Search and Data Mining (WSDM 2011)*, Hong Kong, CN, 2011
9. of the *15th International Conference on Theory and Practice of Digital Libraries 2011 (TPDL 2011)*, Berlin, DE, 2011.
10. (for the area “Categorization, Clustering, and Filtering”) of the *32nd ACM International Conference on Research and Development in Information Retrieval (SIGIR 2009)*, Boston, US, 2009
11. of the *8th International Conference on Data Mining (ICDM 2008)*, Pisa, IT
12. of the *30th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2007)*, Amsterdam, NL, 2007
13. (for the area “Text Categorization and Clustering”) of the *28th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2005)*, Salvador de Bahia, BR, 2005

14. (for the area “Machine Learning for IR, Text Data Mining, Clustering, Text Categorization”) of the *27th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2004)*, Sheffield, UK, 2004
15. (for the area “Machine Learning for IR, Text Data Mining, Clustering, Text Categorization”) of the *26th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2003)*, Toronto, CA, 2003

He has been the **Tutorials Chairman** of the *2009 IEEE/WIC/ACM International Conferences on Web Intelligence (WI 2009) and Intelligent Agent Technology (IAT 2009)*, Milano, IT, 2009

He has been the **Workshops Chairman** of the *16th International Conference on Theory and Practice of Digital Libraries (TPDL 2012)*, Paphos, CY, 2012.

1.7.4 Member of program committees

He has been a member of the program committee of the following international conferences or workshops:

1. 15th International Conference on Artificial Intelligence and Law (ICAIL 2015), San Diego, US, 2015;
2. 30th ACM Symposium on Applied Computing (SAC 2015) — Information Access and Retrieval Track, Salamanca, ES, 2015;
3. 9th International Conference on Language Resources and Evaluation (LREC 2014), Reykjavik, IL, 2014;
4. 6th International Conference on Bioinformatics and Computational Biology (BICoB 2014), Las Vegas, US, 2014
5. 5th Italian Information Retrieval Workshop (IIR 2014), Roma, IT, 2014
6. 27th ACM Symposium on Applied Computing (SAC 2013), Coimbra, PT, 2013
7. 26th ACM Symposium on Applied Computing (SAC 2012), Riva del Garda, IT, 2012
8. 35th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2012), Portland, US, 2012
9. 8th International Conference on Language Resources and Evaluation (LREC 2012), Istanbul, TR, 2012
10. 3rd Italian Information Retrieval Workshop (IIR 2012), Bari, IT, 2012
11. 25th ACM Symposium on Applied Computing (SAC 2011), Taichung, TW, 2011
12. ECML/PKDD 2011 Workshop on Mining Complex Entities from Network and Biomedical Data (MIND 2011), Athens, GR, 2011
13. 33rd European Conference on Information Retrieval (ECIR 2011), Dublin, IE, 2011
14. 7th International Conference on Language Resources and Evaluation (LREC 2010), Valletta, MT

15. 1st Italian Information Retrieval Workshop (IIR 2010), Padova, IT
16. ECIR 2010 Workshop on Large-Scale Hierarchical Classification, Milton Keynes, UK. 2010
17. 32nd European Conference on Information Retrieval (ECIR 2010), Milton Keynes, UK
18. 5th ACL Workshop on Graph-based Methods for Natural Language Processing (TextGraphs-5), Uppsala, SE, 2010
19. EACL 2009 Workshop on GEometrical Models of Natural Language Semantics (GEMS 2009), Athens, GR, 2009
20. Conference on Empirical Methods in Natural Language Processing (EMNLP 2009), Singapore, SN, 2009
21. Information Retrieval and Access track of the 24th ACM Symposium on Applied Computing (SAC 2009), Honolulu, US, 2009
22. 6th Language Resources and Evaluation Conference (LREC 2008), Marrakech, MA, 2008
23. Information Retrieval and Access track of the 22nd ACM Symposium on Applied Computing (SAC 2007), Seoul, KR, 2007
24. 16th ACM Conference on Information and Knowledge Management (CIKM 2007), Lisbon, PT, 2007
25. Workshop on Semantic Content Acquisition and Representation (SCAR 2007), Tartu, EE, 2007
26. Workshop on Contextual Information in Semantic Space Models (COSMO 2007), Roskilde, DK, 2007
27. 27th European Conference on Information Retrieval (ECIR 2005), Santiago de Compostela, ES, 2005
28. 13th ACM International Conference on Knowledge Management (CIKM 2004), Washington, US, 2004
29. 11th International Symposium on String Processing and Information Retrieval (SPIRE 2004), Padova, IT, 2004
30. 4th International Conference on Language Resources and Evaluation (LREC 2004), Lisbon, PT, 2004
31. 19th Conference of the American Association for Artificial Intelligence (AAAI 2004), San Jose, US, 2004
32. 8th Conference of the International Society for Knowledge Organization (ISKO 2004), London, UK, 2004
33. 26th European Conference on Information Retrieval (ECIR 2004), Sunderland, UK, 2004
34. 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE 2004)
35. 27th ACM International Conference on Research and Development in Information Retrieval, 2004 (SIGIR 2004)

36. 10th International Symposium on String Processing and Information Retrieval, 2003 (SPIRE 2003)
37. 7th European Conference on Principles and Practice of Knowledge Discovery in Databases, Dubrovnik, KR, 2003 (PKDD 2003)
38. 15th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE 2003)
39. 26th ACM International Conference on Research and Development in Information Retrieval, 2003 (SIGIR 2003)
40. 9th International Symposium on String Processing and Information Retrieval (SPIRE 2002), 2002
41. 1st International Workshop in Text Learning, co-located with the 19th International Conference on Machine Learning (ICML 2002), Sydney, AU, July 8, 2002
42. 4th Argentinean Symposium in Artificial Intelligence, 2002 (ASAI 2002)
43. 6th European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD 2002), Helsinki, FI, 2002
44. LREC 2002 Workshop on Linguistic Knowledge Acquisition and Representation, Las Palmas, ES, 2002
45. 19th International Conference on Machine Learning (ICML 2002), Sydney, AU, 2002
46. 6th European Conference on Digital Libraries, 2002 (ECDL 2002)
47. 18th Conference of the American Association for Artificial Intelligence (AAAI 2002), 2002
48. 24th European Colloquium on Information Retrieval, 2002 (ECIR 2002)
49. 15th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE 2002), 2002
50. Workshop on the Management of Uncertainty and Imprecision in Multimedia Information Systems (UIMIS 2001), co-located with ECSQARU 2001, 6th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, 2001
51. Workshop on the Management of uncertainty and imprecision in multimedia information systems (EUROFUSE 2002), 2002
52. 1st Workshop on Operational Text Classification Systems (OTC 2001), co-located with ACM SIGIR 2001, 24th ACM International Conference on Research and Development in Information Retrieval
53. 3rd Argentinean Symposium of Artificial Intelligence (ASAI 2001), 2001
54. 23rd European Colloquium on Information Retrieval (ECIR 2001), 2001
55. 24th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2001), 2001
56. 14th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE 2001), 2001

57. 2nd Argentinean Symposium of Artificial Intelligence (ASAI 2000), 2000
58. 17th International Conference on Machine Learning (ICML 2000), 2000
59. 1st Argentinean Symposium of Artificial Intelligence (ASAI 1999), 1999
60. 5th International Conference “Recherche d’Information Assistee par Ordinateur” (RIAO 1997), 1997
61. 20th ACM International Conference on Research and Development in Information Retrieval (SIGIR 1997), 1997
62. 19th ACM International Conference on Research and Development in Information Retrieval (SIGIR 1996), 1996
63. 18th ACM International Conference on Research and Development in Information Retrieval (SIGIR 1995), 1995
64. IJCAI 1993 Workshop on Object-Based Representation Systems, 1993

He has been a **Member of the Tutorials and Workshops Committee** of the 32nd European Conference on Information Retrieval (ECIR 2010), Milton Keynes, UK.

He has been a **Member of the Organizing Committees** of the:

- 12th Conference on Empirical Methods in Natural Language Processing (EMNLP 2014), Doha, QA, 2014.
- 5th International Workshop on the Discovery of Electronically Stored Information (DESI 2013), co-located with the International Conference on Artificial Intelligence and Law (ICAIL 2013), Roma, IT, 2013.
- 1st International Workshop on Operational Text Classification Systems (OTC 2001), co-located with the 24th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2001), New Orleans, US.
- 7th International Workshop on Description Logics (DL 1998), Trento, IT, 1998.

1.7.5 Referee for international journals

Aside from the journals for which he is / has been a member of the Editorial Board, FS has been a referee for the following international journals:

1. ACM Computing Surveys (ACM Press)
2. ACM Transactions on Internet Technology (ACM Press)
3. ACM Transactions on Speech and Language Processing (ACM Press)
4. Applied Artificial Intelligence (Taylor & Francis)
5. Arabian Journal for Science and Engineering
6. Artificial Intelligence (Elsevier)
7. Artificial Intelligence in Medicine (Elsevier)
8. BMC Bioinformatics (BioMedCentral)

9. BMC Medical Informatics and Decision Making (BioMedCentral)
10. Computaciòn y Sistemas
11. Computational Intelligence (Blackwell)
12. Computational Linguistics (The MIT Press)
13. Computer Methods and Programs in Biomedicine (Elsevier)
14. Computer Networks (Elsevier)
15. Computer Science Review (Elsevier)
16. Computer Standards and Interfaces (Elsevier)
17. Constraints (Springer)
18. Data and Knowledge Engineering (Elsevier) .
19. Data Mining and Knowledge Discovery (Springer)
20. Electronic Transactions on Artificial Intelligence
21. Engineering Applications of Artificial Intelligence (Elsevier)
22. Expert Systems with Applications (Elsevier)
23. Fuzzy Sets and Systems (Elsevier)
24. IEEE Intelligent Systems (IEEE Computer Society Press)
25. IEEE Internet Computing (IEEE Computer Society Press)
26. IEEE Transactions on Audio, Speech and Language Processing (IEEE Press)
27. IEEE Transactions on Knowledge and Data Engineering (IEEE Computer Society Press)
28. IEEE Transactions on Neural Networks (IEEE Computer Society Press)
29. IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE Computer Society Press)
30. IEEE Transactions on Systems, Man and Cybernetics (IEEE Computer Society Press)
31. IEICE Transactions on Information and Systems (Oxford University Press)
32. Information Processing Letters (Elsevier)
33. Information Sciences (Elsevier)
34. Information Systems (Elsevier)
35. Information Technology and Management (Springer)
36. International Journal of Artificial Intelligence Tools (World Scientific)
37. International Journal of Computer Engineering Research
38. International Journal of Computer Mathematics (Taylor & Francis)
39. International Journal of Digital Libraries (Springer)

40. International Journal of Uncertainty, Fuzziness, and Knowledge Based Systems (World Scientific)
41. Journal of Artificial Intelligence Research (Morgan Kaufmann)
42. Journal of Classification (Springer)
43. Journal of Intelligent Information Systems (Kluwer)
44. Journal of Machine Learning Research (MIT Press)
45. Journal of Official Statistics
46. Journal of the Royal Statistical Society
47. Journal of Web Engineering (Rinton Press)
48. Knowledge and Information Systems (Springer)
49. Knowledge Engineering Review (Cambridge University Press)
50. Language Resources and Evaluation (Springer)
51. Natural Language Engineering (Cambridge University Press)
52. Neural Computation (MIT Press)
53. Neurocomputing (Elsevier)
54. New Generation Computing (Springer)
55. Pattern Analysis and Applications (Springer)
56. Pattern Recognition Letters (Elsevier)
57. PLOS One (Public Library of Science)
58. Software Practice and Experience (Wiley)
59. The Computer Journal (Oxford University Press)
60. Theoretical Computer Science (Elsevier)
61. World Wide Web Journal (Springer)

1.7.6 Other evaluation work

- In 2015 FS has been the external examiner for the PhD thesis of Roberto Pasolini at the University of Bologna, IT.
- In 2015 FS has been a project proposal evaluator for Hasler Foundation, CH.
- In 2014 FS has been an External Examiner for the positions of Assistant Professor, Institute of Information Science, Academia Sinica, Taiwan, TW.
- In 2014 FS has been a project proposal evaluator for the Polish National Science Centre.
- In 2013 FS has been a project proposal evaluator for the Swiss National Science Foundation.
- In 2012 FS has been a project proposal evaluator for the Portuguese Foundation for Science and Technology

- In 2011 and 2012 he has been a reviewer for the Washington Editorial Review Board of the National Institute of Standards and Technology (NIST), Gaithersburg, US
- In 2009 FS has been the external examiner for the PhD thesis of Michael Davy at Trinity College, University of Dublin, IE.
- In 2008 FS has been the external examiner for the MSc thesis of Graham Poulter at the University of Cape Town, SA.
- In 2006 FS has been the external examiner (“opponent”) for the PhD thesis of Magnus Sahlgren at the University of Stockholm, SE.
- In 2006 FS has been a book proposal evaluator for Springer.
- In 2003 and 2004 FS has been a project proposal evaluator for the Research Grants Program of the Research Grants Council of Hong Kong.
- In 1999, 2000, and 2001 FS has been a project proposal evaluator for the 5th Framework Program of the Commission of the European Communities

1.8 Courses taught at summer schools

He has given the following courses at summer schools:

1. Course (half-day) on “Text classification” at the *3rd BiCi International PhD School on Advanced Retrieval and Web Mining (WebBAR 2007)*, Varenna, IT, 2007.
2. Course (2 hours) “Machine Learning and Information Retrieval” at the *5th European Summer School in Information Retrieval (ESSIR 2005)*, Dublin, IE, 2005.
3. Course (7 $\frac{1}{2}$ hours) on “Automated document classification” at the *15th European Summer School on Logic, Language and Information (ESSLI 2003)*, Vienna, AT, 2003.
4. Course (half-day) on “Automated Document Classification” at the *Summer School on Language Technologies and Information Retrieval*, Barcelona, ES, organized by Universitat Internacional Menéndez Pelayo, 2003.
5. Course (half-day) on “Text Categorization and Information Filtering” at the *1st International Summer School on Digital Libraries*, Pisa, IT, 2001.
6. Course (15 hours) on “Retrieval, categorisation and filtering of textual documents” at the *10th Summer School in Computer Science*, Department of Computer Science, University of Buenos Aires, Buenos Aires, AR, 1997.

1.9 Tutorials

He has given the following tutorials:

1. Half-Day Tutorial on “Prevalence Estimation in Information Retrieval, Machine Learning, and Data Mining”, at the *30th ACM Symposium on Applied Computing (SAC 2015)*, Salamanca, ES, April 2015.

2. Half-Day Tutorial on “Quantification in machine learning, data mining, and information retrieval”, at the *XIII AI*IA Symposium on Artificial Intelligence (AI*IA 2014)*, Pisa, IT, December 2014.
3. Half-Day Tutorial on “Text Quantification”, at the *12th Conference on Empirical Methods in Natural Language Processing (EMNLP 2014)*, Doha, QA, October 2014.
4. Half-Day Tutorial on “Quantification”, at the *11th IEEE International Conference on Computer Systems and Applications (AICCSA 2014)*, Doha, QA, November 2014.
5. Half-Day Tutorial on “Text Quantification” at the *36th European Conference on Information Retrieval (ECIR 2014)*, Amsterdam, NL, April 2014.
6. Half-Day Tutorial on “Automated Text Classification” at the *1st International Conference on Digital Libraries (ICDL 2004)*, New Delhi, IN, 2004.
7. Half-Day Tutorial on “Machine Learning for Automated Text Classification” at the *8th Congress of the Italian Association for Artificial Intelligence (AI*IA 2003)*, Pisa, IT, 2003.
8. Full-Day Tutorial “Machine learning and automated document categorisation” at the *5th European Conference on Digital Libraries (ECDL 2001)*, Darmstadt, DE, 2001.
9. Half-Day Tutorial “Machine learning for the categorization of text documents and Web pages” at the *17th International Joint Conference on Artificial Intelligence (IJCAI 2001)*, Seattle, US, 2001 (with A. Sperduti).
10. Full-Day Tutorial “Machine learning and automated document categorisation” at the *4th European Conference on Digital Libraries (ECDL 2000)*, Lisbon, PT, 2000.
11. Full-Day Tutorial “Machine learning and automated document categorisation” at the *18th International Conference on Computational Linguistics (COLING 2000)*, Nancy, FR, 2000.
12. Full-Day Tutorial “Machine learning and automated document categorisation” at the *1st Argentinean Symposium on Artificial Intelligence (ASAI 1999)*, Buenos Aires, AR, 1999.
13. Full-Day Tutorial “Information Retrieval and WWW Search Engines” at the *8th International Conference on the World Wide Web (WWW 1999)*, Toronto, CA, 1999 (with G. Amato).
14. Half-Day Tutorial “Multimedia Information Retrieval, Categorisation and Filtering” at the *17th International Conference on Conceptual Modelling (ER 1998)*, Singapore, SN, 1998.
15. Full-Day Tutorial “Multimedia Information Retrieval, Categorisation and Filtering” at the *2nd European Conference on Digital Libraries (ECDL 1998)*, Heraklion, GR, 1998 (with P. Savino).
16. Half-Day Tutorial “Multimedia Information Retrieval” at the *1st European Conference on Digital Libraries (ECDL 1997)*, Pisa, IT, 1997 (with C. Meghini e P. Savino).

1.10 Teaching and supervision activity

1.10.1 Graduate-level teaching

- In 2010 he has taught a course on “Text Classification via Supervised Learning: Techniques and Trends” (8 hours) for the PhD School in Computer Science of the Universities of Geneva, Lausanne and Neuchâtel, CH.
- In 2004 he has taught a course on “Advanced Models for Text Mining” (6 hours) for the Master in Methods for the Management of Complex Systems, Pavia, IT.
- In 1999 he has taught a course on “Retrieval, filtering and categorisation of text documents” (30 hours) for the PhD School in Computer Science, Facultad de Ciencias Exactas, Universidad Nacional del Centro de la Provincia de Buenos Aires, AR.

1.10.2 Undergraduate-level teaching

From 1987 to 2006 FS has taught more than 15 courses, at BSc and MSc level, at the Universities of Pisa (Italy), Perugia (Italy), L’Aquila (Italy), and Padova (Italy), on the topics of Lisp programming, dynamic data structures and recursive programming, mathematical logic for artificial intelligence, databases, and information retrieval.

1.10.3 Student supervision

FS has been the supervisor of the following PhD students

- Andrea Esuli (University of Pisa, IT, graduated 2008)
- Giacomo Berardi (University of Pisa, IT, graduated 2014)
- Diego Marcheggiani (University of Venezia, IT, graduated 2014)
- Tiziano Fagni (University of Pisa, IT, ongoing, likely completion in 2017)

and of more than 25 MSc students.

1.11 Citation data

- Fabrizio Sebastiani’s H-index is 30, and his works have been cited 10,828 times (Google Citations data on Apr 29, 2014).

1.12 Awards

- The paper “Cracking the Code: What Customers Say, in Their Own Words”, by FS and colleagues (reference 89 in the list of publications), has obtained the “Best New Thinking Award” at the 50th Conference of the Market Research Society, Brighton, UK, 2007.

- FS has been the recipient of the 2006 “Premio Vespucci” award, jointly issued by the Regional Council of Tuscany and by the Tuscan Chapter of the Italian Industrialists Association. The prize is awarded annually to a project that combines research, development, and economic results, and was conferred to FS for his work on the automated coding of open-ended answers in customer relationship management applications.

1.13 Personal interests

International politics; Literature; Sports (favourite ones are ski-mountaineering, of which FS is an Instructor of the Alpine Club of Italy, downhill skiing, cross-country skiing, mountain-biking, summer and winter climbing, sailing, kayaking, swimming, ice-skating).

Chapter 2

PUBLICATIONS

2.1 Manuscripts submitted for publication

1. Diego Marcheggiani and Fabrizio Sebastiani. On the Effects of Low-Quality Training Data on Information Extraction from Clinical Reports. *ACM Journal of Data and Information Quality*. Submitted for publication on March 3, 2015.
2. Tarek El-Ganainy, Walid Magdy, Hassan Sajjad, and Fabrizio Sebastiani. Distant Supervision for Tweet Classification using YouTube Labels. *Proceedings of the 9th International AAAI Conference on Web and Social Media (ICWSM 2015)*, Oxford, UK. Submitted for publication on January 18, 2015.
3. Fosca Giannotti, Letizia Milli, Anna Monreale, Dino Pedreschi, Giulio Rossetti, Fabrizio Sebastiani. Quantification in Social Networks. *Proceedings of the 9th International AAAI Conference on Web and Social Media (ICWSM 2015)*, Oxford, UK. Submitted for publication on January 18, 2015.

2.2 Papers on refereed international journals

4. Giacomo Berardi, Andrea Esuli and Fabrizio Sebastiani. Utility-Theoretic Ranking for Semi-Automated Text Classification. *ACM Transactions on Knowledge Discovery from Data*. ACM Press. Accepted for publication on March 2, 2015.
5. Andrea Esuli and Fabrizio Sebastiani. Optimizing Text Quantifiers for Multivariate Loss Functions. *ACM Transactions on Knowledge Discovery from Data*. ACM Press. Accepted for publication on October 26, 2014.
6. Giacomo Berardi, Andrea Esuli, Fabrizio Sebastiani. Optimising Human Inspection Work in Automated Verbatim Coding. *International Journal of Market Research*, 56(4):489-512, 2014.
7. Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. Feature Selection for Ordinal Text Classification. *Neural Computation*, 26(3):557-591, 2014. The MIT Press.
8. Andrea Esuli and Fabrizio Sebastiani. Improving Text Classification Accuracy by Training Label Cleaning. *ACM Transactions on Information Systems*, 31(4), 2013.

9. Giacomo Berardi, Andrea Esuli, Fabrizio Sebastiani, and Fabrizio Silvestri. Endorsements and Rebuttals in Blog Distillation. *Information Sciences*, 249:38–47, 2013. Elsevier Science Publishers.
10. Andrea Esuli, Diego Marcheggiani, and Fabrizio Sebastiani. An Enhanced CRFs-based System for Information Extraction from Radiology Reports. *Journal of Biomedical Informatics*, 46(3):425–435, 2013. Elsevier Science Publishers.
11. Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. Using Micro-Documents for Feature Selection: The Case of Ordinal Text Classification. *Expert Systems with Applications*, 40(11):4687–4696, 2013. Elsevier Science Publishers.
12. Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. StarTrack: The Next Generation (of Product Review Management Tools). *New Generation Computing*, 31(1):47–70, 2013. Springer Verlag.
13. Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. Variable-Constraint Classification and Quantification of Radiology Reports under the ACR Index. *Expert Systems with Applications*, 40(9):3441–3449, 2013. Elsevier Science Publishers.
14. Tiziano Fagni and Fabrizio Sebastiani. Selecting Negative Examples for Hierarchical Text Classification: An Experimental Comparison. *Journal of the American Society for Information Science and Technology*, 61(11):2256–2265, 2010. Wiley Academic Publishers.
15. Andrea Esuli and Fabrizio Sebastiani. Machines that learn how to code open-ended survey data. *International Journal of Market Research*, 52(6):775–800, 2010.
16. Andrea Esuli and Fabrizio Sebastiani. Sentiment Quantification. *IEEE Intelligent Systems*, 25(4): 72–75, 2010. IEEE Press.
17. Tiziano Fagni, Fabrizio Falchi and Fabrizio Sebastiani. Image Classification via Adaptive Ensembles of Descriptor-Specific Classifiers. *Pattern Recognition and Image Analysis*, 20(1):21–28, 2010.
18. Fabio Aiolli, Riccardo Cardin, Fabrizio Sebastiani, and Alessandro Sperduti. Preferential Text Classification: Learning Algorithms and Evaluation Measures. *Information Retrieval*, 12(5):559–580, 2009. Springer Verlag.
19. Andrea Esuli, Tiziano Fagni, and Fabrizio Sebastiani. Boosting Multi-label Hierarchical Text Categorization *Information Retrieval*, 11(4):287–313, 2008. Springer Verlag.
20. Filippo Geraci, Marco Maggini, Marco Pellegrini and Fabrizio Sebastiani. Cluster Generation and Cluster Labelling for Web Snippets: A fast and accurate hierarchical solution. *Internet Mathematics*, 3(4): 413–444, 2008.
21. Henri Avancini, Alberto Lavelli, Fabrizio Sebastiani and Roberto Zanolli. Automatic Expansion of Domain-Specific Lexicons by Term Categorization. *ACM Transactions on Speech and Language Processing* (now renamed to *IEEE/ACM Transactions on Audio, Speech, and Language Processing*), 3(1):1–30, 2006. ACM Press.

22. Franca Debole and Fabrizio Sebastiani. An Analysis of the Relative Hardness of Reuters-21578 Subsets. *Journal of the American Society for Information Science and Technology*, 56(6):584–596, 2005. Wiley Academic Publishers.
23. Daniela Giorgetti and Fabrizio Sebastiani. Automating Survey Coding by Multiclass Text Categorization Techniques. *Journal of the American Society for Information Science and Technology*, 54(14):1269–1277, 2003. Wiley Academic Publishers.
24. Fabrizio Sebastiani. Machine learning in automated text categorization. *ACM Computing Surveys*, 34(1):1–47, 2002. ACM Press.
25. Carlo Meghini, Fabrizio Sebastiani and Umberto Straccia. A model of multimedia information retrieval. *Journal of the ACM*, 48(5):907–970, 2001. ACM Press.
26. Fabrizio Sebastiani. Towards a logical reconstruction of information retrieval theory. *Cybernetics and Systems*, 30(5):411–428, 1999. Taylor and Francis Publishers.
27. Fabrizio Sebastiani. Information retrieval, imaging and probabilistic logic. *Computers and Artificial Intelligence* (now renamed to *Computing and Informatics*), 17(1):1–16, 1998.
28. Fabrizio Sebastiani. On the role of logic in information retrieval. *Information Processing and Management*, 34(1):1–18, 1998. Elsevier Science Publishers.
29. Fabrizio Sebastiani and Umberto Straccia. Default reasoning in a terminological logic. *Computers and Artificial Intelligence* (now renamed to *Computing and Informatics*), 14(3):225–251, 1995.
30. Fabrizio Sebastiani and Umberto Straccia. Incremental knowledge acquisition for non-monotonic reasoning. *Computers and Artificial Intelligence* (now renamed to *Computing and Informatics*), 13(4):377–396, 1994.

2.3 Guest-edited special issues of international journals

31. Roberto Grossi, Fabrizio Sebastiani and Fabrizio Silvestri (eds.), Special Issue on the 18th International Symposium on String Processing and Information Retrieval, *Journal of Discrete Algorithms*, 13(1), 2013. Elsevier Science Publishers.
32. Ingo Frommholz, Andreas Rauber and Fabrizio Sebastiani (eds.), Special Issue on the 14th European Conference on Digital Libraries, *International Journal of Digital Libraries*, 11(2), 2010. Springer Verlag.
33. Fabrizio Sebastiani (guest ed.), Special Issue on the 25th European Conference on Information Retrieval, *Information Retrieval*, 7(3/4), 2004. Kluwer Academic Publishers.
34. Thorsten Joachims and Fabrizio Sebastiani (guest eds.), Special Issue on Automated Text Categorization, *Journal of Intelligent Information Systems*, 18(2), 2002. Kluwer Academic Publishers.

2.4 Edited collections

35. Roberto Basili, Fabrizio Sebastiani, and Giovanni Semeraro (eds.), *Proceedings of the 4th Italian Information Retrieval Workshop (IIR 2013)*, Pisa, IT, 2013. Vol. 964, CEUR-WS Proceedings Series.
36. Roberto Grossi, Fabrizio Sebastiani and Fabrizio Silvestri (eds.), *Proceedings of the 18th International Symposium on String Processing and Information Retrieval (SPIRE 2011)*, Pisa, IT, 2011. Lecture Notes in Computer Science 7024, Springer Verlag.
37. Joemon Jose, Mounia Lalmas, Andreas Rauber, Fabrizio Sebastiani, and Ingo Frommholz (eds.), *Proceedings of the 14th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2010)*, Glasgow, UK, 2010. Lecture Notes in Computer Science 6273, Springer Verlag.
38. Sung-Hyon Myaeng, Douglas W. Oard, Fabrizio Sebastiani, Tat-Seng Chua, Mun-Kew Leong (eds.), *Proceedings of the 31st International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2008)*, Singapore, SN, 2008. ACM Press.
39. Fabrizio Sebastiani (ed.), *Proceedings of the 25th European Conference on Information Retrieval (ECIR 2003)*, Pisa, IT, 2003. Lecture Notes in Computer Science 2633, Springer Verlag.
40. Fabrizio Sebastiani (ed.), *Proceedings of the ACM SIGIR Workshop on Operational Text Classification Systems (OTC 2002)*, Tampere, FI, 2002.
41. Carlo Meghini and Fabrizio Sebastiani (eds.), *Proceedings of the ERCIM Workshop on Theoretical and Experimental Aspects of Knowledge Representation*, Pisa, IT, 1992. European Research Consortium for Informatics and Mathematics.

2.5 Keynote talks / Invited talks

42. Fabrizio Sebastiani. Explicit Loss Minimization in Quantification Applications. Keynote Talk, *8th International Workshop on Information Filtering and Retrieval*, Pisa, IT, December 2014.
43. Fabrizio Sebastiani. Machine Learning and Automatic Text Classification: What's Next? Keynote Talk, *Association of Survey Computing Methods Conference*, Winchester, UK, September 2013.
44. Fabrizio Sebastiani. Utility Theory, Minimum Effort, and Predictive Coding. Keynote Talk, *5th International Workshop on the Discovery of Electronically Stored Information (DESI 2013)*, Roma, IT, June 2013.
45. Fabrizio Sebastiani. Automated Verbatim Classification and Quantification via Machine Learning. Invited talk, *Association for Survey Computing Conference on Working with Unconventional Data in Surveys and Research*, London, UK, 2012.
46. Fabrizio Sebastiani. Building Automated Text Classifiers via Machine Learning. Invited talk, *ISKO UK /BCS IRSG Workshop on Classification*, London, UK, 2012.

47. Fabrizio Sebastiani. Machines that Learn how to Code Open-Ended Survey Data: Underlying Principles, Experimental Data, and Methodological Issues. Invited talk, *Conference on Optimal Methods of Coding Open-Ended Survey Data*, Ann Arbor, US, 2008.
48. Fabrizio Sebastiani. Automated Verbatim Coding: State of the Art and Future Perspectives. Keynote Talk, *2nd Language Logic Verbatim Management Conference*, Cincinnati, US, 2007.
49. Fabrizio Sebastiani. Organizing Digital Libraries by Automated Text Categorization. Invited talk, *1st International Conference on Digital Libraries*, New Delhi, IN, 2004.
50. Fabrizio Sebastiani. Supervised Term Weighting for Automated Text Categorization. Invited talk, *1st International Workshop on Text Mining and its Applications*, Patras, GR, 2004.
51. Fabrizio Sebastiani. Text Classification for Web Filtering. Invited talk, *Workshop on the Present and Future of Open-Source Content-Based Web Filtering*, Pisa, IT, 2004.
52. Fabrizio Sebastiani. Research in Automated Text Classification: Trends and Perspectives. Invited talk, *4th International Colloquium on Library and Information Science (ICLIS 2003)*, Salamanca, SP, 2003.
53. Fabrizio Sebastiani. Automated Text Categorization: Tools, Techniques and Applications. Invited talk, *1st International Symposium on Text Indexing*, Rennes, FR, 2002.
54. Fabrizio Sebastiani. Organizing and Using Digital Libraries by Automated Text Categorization. Keynote talk, *AI*IA Workshop on Artificial Intelligence for Cultural Heritage and Digital Libraries*, Bari, IT, 2001.

2.6 Papers in international edited collections

55. Andrea Esuli and Fabrizio Sebastiani. Enhancing Opinion Extraction by Automatically Annotated Lexical Resources (Extended Version). In Hans Uszkoreit and Zygmunt Vetulani (eds.), *Human Language Technology. Challenges of the Information Society*, Revised selected papers from the 4th Language Technology Conference (LTC 2009), Poznan, PL, 2009. Lecture Notes in Computer Science, Springer Verlag, Heidelberg, DE, 2011, pp. 500-511.
56. Shlomo Argamon, Kenneth Bloom, Andrea Esuli and Fabrizio Sebastiani. Automatically Determining Attitude Type and Force for Sentiment Analysis. In Hans Uszkoreit and Zygmunt Vetulani (eds.), *Human Language Technology. Challenges of the Information Society*, Revised selected papers from the 3rd Language Technology Conference (LTC 2007), Poznan, PL, 2007. Lecture Notes in Computer Science 5603, Springer Verlag, Heidelberg, DE, 2009, pp. 218-231.
57. Fabrizio Sebastiani. Text Categorization. In Alessandro Zanasi, editor, *Text Mining and Its Applications to Intelligence, CRM and Knowledge Management*, WIT Press, Southampton, UK, 2005, pp. 109-129.

58. Daniela Giorgetti, Irina Prodanof and Fabrizio Sebastiani. Mapping an Automated Survey Coding Task into a Probabilistic Text Categorization Framework. In Elisabete Ranchhod and Nuno J. Mamede, editors, *Advances in Natural Language Processing*, pp. 115–124. Lecture Notes in Computer Science 2389, Springer Verlag, Heidelberg, DE.
59. Fabrizio Sebastiani. Interactive Query Expansion with Automatically Generated Category-Specific Thesauri. In Amita G. Chin, editor, *Text Databases and Document Management: Theory and Practice*, Idea Group Publishing, Hershey, US, 2001, pp. 103–117.
60. Maria Fernanda Caropreso, Stan Matwin and Fabrizio Sebastiani. A learner-independent evaluation of the usefulness of statistical phrases for automated text categorization. In Amita G. Chin, editor, *Text Databases and Document Management: Theory and Practice*, Idea Group Publishing, Hershey, US, 2001, pp. 78–102.
61. Carlo Meghini and Fabrizio Sebastiani. Conceptual Modelling in Multimedia Information Seeking. In Peter P. Chen, Jacky Akoka, Hannu Kangassalo and Bernhard Thalheim, editors, *Conceptual Modeling: Current Issues and Future Directions*, Springer Verlag, Heidelberg, DE, 1999, pp. 281–286. Lecture Notes in Computer Science 1565.
62. Carlo Meghini, Fabrizio Sebastiani, and Umberto Straccia. Mirlog: a logic for multimedia information retrieval. In Cornelis J. van Rijsbergen, Fabio Crestani and Mounia Lalmas, editors, *Information Retrieval: Uncertainty and Logics. Advanced models for the representation and retrieval of information*, Kluwer Academic Publishers, Dordrecht, NL, 1998, pp. 151–185.

2.7 Entries in encyclopedias

63. Carlo Meghini, Fabrizio Sebastiani, and Umberto Straccia. Multimedia Information Retrieval Model. In Ling Liu and M. Tamer Ozsu (eds.), *Encyclopedia of Database Systems*, Springer Verlag, Heidelberg, DE, 2009, pp. 1820–1824.
64. Fabrizio Sebastiani. Classification of text, automatic. In Keith Brown (ed.), *The Encyclopedia of Language and Linguistics*, Volume 2, 2nd Edition, Elsevier Science Publishers, Amsterdam, NL, 2006, pp. 457–463.
65. Fabrizio Sebastiani. Text Categorization. In Laura C. Rivero, Jorge H. Doorn and Viviana E. Ferraggine (eds.), *The Encyclopedia of Database Technologies and Applications*, Idea Group Publishing, Hershey, US, 2005, pp. 683–687.

2.8 Papers in refereed proceedings of international conferences

66. Giacomo Berardi, Andrea Esuli, Tiziano Fagni and Fabrizio Sebastiani. Multi-Store Metadata-Based Supervised Mobile App Classification. *Proceedings of the 30th ACM Symposium on Applied Computing (SAC 2015)*, Salamanca, ES. Accepted for publication on November 28, 2014.

67. Giacomo Berardi, Andrea Esuli, Tiziano Fagni and Fabrizio Sebastiani. Classifying Websites by Industry Sector: A Study in Feature Design. *Proceedings of the 30th ACM Symposium on Applied Computing (SAC 2015)*, Salamanca, ES. Accepted for publication on November 28, 2014.
68. Fabrizio Sebastiani. Text Quantification (tutorial abstract). *Proceedings of the 36th European Conference on Information Retrieval (ECIR 2014)*, Amsterdam, NL, 2014, pp. 819–822.
69. Andrea Esuli, Diego Marcheggiani, Fabrizio Sebastiani, Oscar Täckström. Hierarchical Multi-label Conditional Random Fields for Aspect-Oriented Opinion Mining. *Proceedings of the 36th European Conference on Information Retrieval (ECIR 2014)*, Amsterdam, NL, 2014, pp. 273–285.
70. Letizia Milli, Anna Monreale, Giulio Rossetti, Fosca Giannotti, Dino Pedreschi, and Fabrizio Sebastiani. Quantification Trees. *Proceedings of the 13th IEEE International Conference on Data Mining (ICDM 2013)*, Dallas, US, 2013, pp. 528–536.
71. Giacomo Berardi, Andrea Esuli, Sergiu Gordea, Diego Marcheggiani, and Fabrizio Sebastiani. Metadata Enrichment Services for the Europeana Digital Library. *Proceedings of the 15th International Conference on the Theory and Practice of Digital Libraries (TPDL 2012)*, Paphos, CY, 2012, pp. 508–511.
72. Giacomo Berardi, Andrea Esuli, and Fabrizio Sebastiani. A Utility-Theoretic Ranking Method for Semi-Automated Text Classification. *Proceedings of the 35th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2012)*, Portland, US, 2012, pp. 961–970.
73. Giacomo Berardi, Andrea Esuli, Fabrizio Sebastiani and Fabrizio Silvestri. Blog Distillation via Sentiment-Sensitive Link Analysis. *Proceedings of the 17th International Conference on Applications of Natural Language Processing to Information Systems (NLDB 2012)*, Groningen, NL, 2012, pp. 228–233.
74. Andrea Esuli and Fabrizio Sebastiani. Evaluating information extraction. *Proceedings of the Conference on Multilingual and Multimodal Information Access Evaluation (CLEF 2010)*, Padova, IT, 2010, pp. 100–111. Lecture Notes in Computer Science 6360, Springer Verlag, Heidelberg, DE.
75. Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. SentiWordNet 3.0: An Enhanced Lexical Resource for Sentiment Analysis and Opinion Mining. *Proceedings of the 7th Conference on Language Resources and Evaluation (LREC 2010)*, Valletta, MT, 2010, pp. 2200–2204.
76. Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. Feature Selection for Ordinal Regression. *Proceedings of the 25th ACM Symposium on Applied Computing (SAC 2010)*, Crans Montana, CH, 2010, pp. 1750–1756.
77. Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. Evaluation Measures for Ordinal Regression. In *Proceedings of the 9th IEEE International Conference on Intelligent Systems Design and Applications (ISDA 2009)*, Pisa, IT, 2009, pp. 283–287.
78. Andrea Esuli and Fabrizio Sebastiani Enhancing Opinion Extraction by Automatically Annotated Lexical Resources. *Proceedings of the 4th Language Technology Conference (LTC 2009)*, Poznan, PL, 2009, pp. 224–228.

79. Andrea Esuli and Fabrizio Sebastiani. Training Data Cleaning for Text Classification. In *Proceedings of the 2nd International Conference on the Theory of Information Retrieval (ICTIR 2009)*, Cambridge, UK, 2009, pp. 29–41. Lecture Notes in Computer Science 5766, Springer Verlag, Heidelberg, DE.
80. Andrea Esuli and Fabrizio Sebastiani. Encoding Ordinal Features into Binary Features for Text Classification. In *Proceedings of the 31st European Conference on Information Retrieval (ECIR 2009)*, Toulouse, FR, 2009, pp. 771–775. Lecture Notes in Computer Science 5478, Springer Verlag, Heidelberg, DE.
81. Andrea Esuli and Fabrizio Sebastiani. Active Learning Strategies for Multi-Label Text Classification. In *Proceedings of the 31st European Conference on Information Retrieval (ECIR 2009)*, Toulouse, FR, 2009, pp. 102–113. Lecture Notes in Computer Science 5478, Springer Verlag, Heidelberg, DE.
82. Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. Multi-Facet Rating of Product Reviews. In *Proceedings of the 31st European Conference on Information Retrieval (ECIR 2009)*, Toulouse, FR, 2009, pp. 461–472. Lecture Notes in Computer Science 5478, Springer Verlag, Heidelberg, DE.
83. Andrea Esuli, Fabrizio Sebastiani, and Ilaria C. Urciuoli. Annotating Expressions of Opinion and Emotion in the Italian Content Annotation Bank. In *Proceedings of the 6th Conference on Language Resources and Evaluation (LREC 2008)*, Marrakech, MA, 2008.
84. Andrea Esuli and Fabrizio Sebastiani. PageRanking WordNet Synsets: An Application to Opinion Mining. In *Proceedings of the 45th Annual Meeting of the Association for Computational Linguistics (ACL 2007)*, Prague, CZ, pp. 424–431.
85. Andrea Esuli and Fabrizio Sebastiani. Random-Walk Models of Term Semantics: An Application to Opinion-Related Properties. In *Proceedings of the 3rd Language Technology Conference (LTC 2007)*, Poznan, PL, pp. 221–225.
86. Tiziano Fagni and Fabrizio Sebastiani. On the Selection of Negative Examples for Hierarchical Text Categorization In *Proceedings of the 3rd Language Technology Conference (LTC 2007)*, Poznan, PL, pp. 24–28.
87. Shlomo Argamon, Kenneth Bloom, Andrea Esuli and Fabrizio Sebastiani. Automatically Determining Attitude Type and Force for Sentiment Analysis In *Proceedings of the 3rd Language Technology Conference (LTC 2007)*, Poznan, PL, pp. 369–373.
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90. Andrea Esuli, Tiziano Fagni, and Fabrizio Sebastiani. MP-Boost: A Multiple-Pivot Boosting Algorithm and its Application to Text Categorization. In *Proceedings of the 13th International Symposium on String Processing and Information Retrieval (SPIRE 2006)*, Glasgow, UK, 2006, pp. 1–12. Lecture Notes in Computer Science 4209, Springer Verlag, Heidelberg, DE.

91. Andrea Esuli, Tiziano Fagni, and Fabrizio Sebastiani. TreeBoost.MH: A Boosting Algorithm for Multi-label Hierarchical Text Categorization. In *Proceedings of the 13th International Symposium on String Processing and Information Retrieval (SPIRE 2006)*, Glasgow, UK, 2006, pp. 13–24. Lecture Notes in Computer Science 4209, Springer Verlag, Heidelberg, DE.
92. Filippo Geraci, Marco Maggini, Marco Pellegrini and Fabrizio Sebastiani. Cluster Generation and Cluster Labelling for Web Snippets: A Fast and Accurate Hierarchical Solution. In *Proceedings of the 13th International Symposium on String Processing and Information Retrieval (SPIRE 2006)*, Glasgow, UK, 2006, pp. 25–36. Lecture Notes in Computer Science 4209, Springer Verlag, Heidelberg, DE.
93. Andrea Esuli and Fabrizio Sebastiani. SENTIWORDNET: A Publicly Available Lexical Resource for Opinion Mining. In *Proceedings of the 5th Conference on Language Resources and Evaluation (LREC 2006)*, Genova, IT, 2006, pp. 417–422.
94. Filippo Geraci, Marco Pellegrini, Paolo Pisati and Fabrizio Sebastiani. A Scalable Algorithm for High-Quality Clustering of Web Snippets. In *Proceedings of the 21st ACM Symposium on Applied Computing (SAC 2006)*, Dijon, FR, 2006, pp. 1058–1062.
95. Andrea Esuli and Fabrizio Sebastiani. Determining Term Subjectivity and Term Orientation for Opinion Mining. In *Proceedings of the 11th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2006)*, Trento, IT, 2006, pp. 193–200.
96. Andrea Esuli and Fabrizio Sebastiani. Determining the semantic orientation of terms through gloss analysis. In *Proceedings of the 14th ACM International Conference on Information and Knowledge Management (CIKM 2005)*, Bremen, DE, 2005, pp. 617–624.
97. Alberto Lavelli, Fabrizio Sebastiani and Roberto Zanolì. Distributional Term Representations: An Experimental Comparison. In *Proceedings of the 13th ACM International Conference on Information and Knowledge Management (CIKM 2004)*, Washington, US, 2004, pp. 615–624.
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102. Franca Debole and Fabrizio Sebastiani. Supervised Term Weighting for Automated Text Categorization. In *Proceedings of the 18th ACM Symposium on Applied Computing (SAC 2003)*, Melbourne, US, 2003, pp. 784–788. ACM Press, New York, US.
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104. Daniela Giorgetti, Irina Prodanof and Fabrizio Sebastiani. Automated Coding of Open-ended Surveys: Technical and Ethical Issues. In *Proceedings of the International Conference on Universal Knowledge and Language (ICUKL 2002)*, Goa, IN, pp.
105. Alberto Lavelli, Bernardo Magnini, and Fabrizio Sebastiani. Building Thematic Lexical Resources by Term Categorization. In *Proceedings of the 25th ACM International Conference on Research and Development in Information Retrieval (SIGIR 2002)*, Tampere, FI, 2002, pp. 415–416.
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