

Dr. Fabrizio Silvestri

Researcher in Computer Science

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Professional Experience

Main results at Yahoo

- ♦ Launched a dwell time prediction component deployed to the Gemini Native ad serving platform with a solution based on random survival forest uplifting the measured dwell time by 20%.
- ♦ Launched a solution based on word embedding for query rewriting and query ad matching within Gemini Search resulting in more than 9% uplift in revenue corresponding to XX million of revenue in 2015.
- ♦ Launched a solution based on information retrieval techniques to compute the relevance of an ad to a query in order to reduce the amount of ads considered not relevant resulting in an increase of 6% in CTR; also, filtered out 80% of editorially annotated bad cases.

10/2015 – current

- ♦ Principal Research Scientist at *Yahoo! Labs. London, UK*
Group Leader: Ad Processing and Retrieval
Research theme: Computational Advertising.
Skills acquired: Computational advertising, word embeddings, dwell time prediction, queries-to-ad matching, query-to-ad relevance estimation.

04/2015 – 10/2015

- ♦ Senior Researcher
Yahoo! Labs. London, UK
Leader of the group: Ad Processing and Retrieval
Research theme: Computational Advertising.

10/2013 – 04/2015

- ♦ Senior Researcher
Yahoo! Labs. Barcelona, Catalunya, Spain
Research theme: Computational Advertising and Big Data Analytics.

Main results at ISTI - CNR

- ♦ Built one of the first distributed search engines during Ph.D. thesis work. Conducted research on Search and IR algorithms. Results published in major venues in the respective fields.
- ♦ Participated actively to the design, development, and launch of the Italian search engine Istella (<http://istella.it>) in collaboration with Tiscali.

Professional Experience (cont.)

- ◆ Led EU-funded research network on distributed computing. Coordinated unit with members from several European universities and industries. Managed budget of about 250K Euros.
- 02/2009 – 10/2013 ◆ Researcher
Istituto di Scienza e Tecnologie dell'Informazione (ISTI), Italian National Research Council (CNR), Pisa, Italy
Research theme: Conducting research on high performance computing techniques applied to Web Search Engines, Information Retrieval, and Data Mining, in general.
Skills acquired: Search algorithms and technologies. Query log analysis. Big data analysis science and technologies. Social network analysis.
- 11/2011 – 10/2013 ◆ Visiting Scholar
Yahoo! Research Lab. in Barcelona
Research theme: Analysis of Big Data in Web Search Engines efficiency optimization
Reference: Prof. Ricardo Baeza-Yates
- 01/2004 – 02/2009 ◆ Post Doctoral Fellowship
Istituto di Scienza e Tecnologie dell'Informazione (ISTI), Italian National Research Council (CNR), Pisa, Italy
Research theme: Query Log Mining and Analysis to improve Web Search Engines
Advisor: dr. Raffaele Perego
- 09/2006 - 12/2006 ◆ Visiting Scholar
Yahoo! Research Lab. in Barcelona
Research theme: Analysis of very large query logs for Web Search Engine efficiency optimization
Reference: Prof. Ricardo Baeza-Yates
- 10/2000 – 12/2003 ◆ Ph.D. fellowship
Computer Science Dept. Pisa - Italy
Research theme: High Performance Issues in Web Search Engines: Algorithms and Techniques
Advisor: dr. Raffaele Perego

Education

- 2000 ◆ M.Sc. Computer Science - University of PISA - Graduated magna cum laude (110/110 e lode).
- 2004 ◆ Ph.D. Computer Science - University of PISA.

Honors & Awards

- ◆ Nominated for the Super Star Award at Yahoo. Fewer than 10% of Yahoos are nominated for Super Star each year. Super Stars are Yahoos who go above and beyond expectations, contribute to products that make Yahoo the world's indispensable guide to digital information, and exude positivity that brings out the best in others.
- ◆ Yahoo Tech Pulse 2014 Best Paper Award for the paper What App Are You Going to Open Next? Personalized Mobile App Prediction for Aviate.
- ◆ Yahoo Patent Milestone Award in recognition of my Yahoo! Patent Inventions.
- ◆ Recipient of the Labs Excellence Award Program (LEAP) for my work with the Advertising science team that has been included in production code.
- ◆ One of the recipients of the 2011 Yahoo! Faculty Research and Engagement Program (FREP) for the Computational Advertisement, Machine Learning and Search & Web Mining Category (<http://labs.yahoo.com/node/596>)
- ◆ Young Investigator Award at ISTI-CNR. Most scientifically prolific young scholar in 2010.
- ◆ Best Paper Award Runner Up at 4th ACM Conference on Web Search and Data Mining (WSDM 2011) with the paper "Identifying Task-based Sessions in Search Engine Query Logs". Co-authors: Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Gabriele Tolomei.
- ◆ Best Paper Award at 29th European Conference on Information Retrieval (ECIR 2007) with the paper "Sorting Out the Document Identifier Assignment Problem".
- ◆ Finalist for the ERCIMs Cor Baayen Award: selected as one of the two representatives from Italy for year 2005.
- ◆ Best Paper Award at 2004 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2004) with the paper "An Online Recommender System for Large Web Sites". Co-author: Ranieri Baraglia.
- ◆ Travel award for attending the 27th Annual International ACM SIGIR Conference (SIGIR 2004) with the paper "Assigning Identifiers to Documents to Enhance the Clustering Property of Fulltext Indexes". Co-authors: Salvatore Orlando and Raffaele Perego.

Patents

- US 2009/0089373 A1 ◆ Debora Donato, Aristides Gionis, Vanessa Murdock, Fabrizio Silvestri.
SYSTEM AND METHOD FOR IDENTIFYING SPAM HOSTS USING STACKED GRAPHICAL LEARNING.
Yahoo! Research, Ocata 1, Barcelona 08003, Spain
ISTI - CNR, Via G. Moruzzi 1, 56124 Pisa, Italy.

Patents (cont.)

- US 2009/0089285 A1 ♦ Debora Donato, Aristides Gionis, Vanessa Murdock, Fabrizio Silvestri.
METHOD OF DETECTING SPAM HOSTS BASED ON PROPAGATING PREDICTION LABELS.
Yahoo! Research, Ocata 1, Barcelona 08003, Spain
ISTI - CNR, Via G. Moruzzi 1, 56124 Pisa, Italy.
- US 2009/0089244 A1 ♦ Debora Donato, Aristides Gionis, Vanessa Murdock, Fabrizio Silvestri.
METHOD OF DETECTING SPAM HOSTS BASED ON CLUSTERING THE HOST GRAPH.
Yahoo! Research, Ocata 1, Barcelona 08003, Spain
ISTI - CNR, Via G. Moruzzi 1, 56124 Pisa, Italy.
- US 2013/891854 A1 ♦ Roi Blanco, Gianmarco De Francisci Morales, Fabrizio Silvestri.
METHOD AND SYSTEM FOR DISPLAYING CONTENT RELATING TO A SUBJECT MATTER OF A DISPLAYED MEDIA PROGRAM.
Yahoo! Labs, Avinguda Diagonal 177, 8th Floor, 08018 Barcelona, Catalunya, Spain.
- FILED ♦ Xiao Bai, Barla Cambazoglu, Francesco Gullo, Amin Mantrach, Fabrizio Silvestri.
EXPLOITING SEARCH HISTORY OF USERS FOR NEWS PERSONALIZATION.
Yahoo! Labs, Avinguda Diagonal 177, 8th Floor, 08018 Barcelona, Catalunya, Spain.
- ♦ Fabrizio Silvestri, Mihajlo Grbovic, Narayan Bhamidipati, Vladan Radosavljevic, Nemanja Djuric.
DEEP LEARNING FOR QUERY REWRITING.
Yahoo! Labs, Avinguda Diagonal 177, 8th Floor, 08018 Barcelona, Catalunya, Spain.
- ♦ Fabrizio Silvestri, Ricardo Baeza-Yates, Beverly Harrison, Di Jiang.
PREDICTING THE NEXT APP THAT YOU ARE GOING TO USE ON AVIATE.
Yahoo! Labs, Avinguda Diagonal 177, 8th Floor, 08018 Barcelona, Catalunya, Spain.
- ♦ Fabrizio Silvestri, Gabriele Tolomei, Michele Trevisiol, Nicola Barbieri, Mounia Lalmas, Puneet M. Sangal.
GENERATING ACTIONABLE SUGGESTIONS FOR IMPROVING USER ENGAGEMENT.
Yahoo! Labs.

Keynotes

- 2015 ♦ **Context- and Content-aware Embeddings for Query Rewriting in Sponsored Search**, November 2015, *Search Solutions 2015*, London, UK
- ♦ **On the Use of Word Embeddings in Query Rewriting for Sponsored Search**, May 2015, *Italian IR Conference*, Cagliari, Italy
- 2013 ♦ **Beyond Query Suggestions: Recommending Tasks to SE Users**, June, 2013, *LP&IIS'13 Conference*, Warsaw, Poland.
- ♦ **Query Recommendations in the Long Tail: Efficient and Effective Techniques**. March 2013, *Abu Dhabi Big Data Conference*, Abu Dhabi, UAE.
- 2008 ♦ **Past Searches Teach Everything: Including the Future!**, October, 2008. *LA-Web 2008*, Vila Velha, Espirito Santo, Brasil.

Publications

Journals

- 2015 ♦ Roi Blanco, Gianmarco De Francisci Morales, Fabrizio Silvestri. **IntoNews: Online News Retrieval using Closed Captions**. *Information Processing & Management*, Volume 51, 1. January 2015, Pages 148 – 162.
- ♦ Cristina Ioana Muntean, Franco Maria Nardini, Fabrizio Silvestri, Ranieri Baraglia. **On Learning Prediction Models for Tourists Paths**. *ACM Trans. on Intelligent Systems and Technology*. 7(1): 8 (2015).
- 2013 ♦ Giacomo Berardi, Andrea Esuli, Fabrizio Sebastiani, Fabrizio Silvestri. **Endorsements and Rebuttals in Blog Distillation**. *Information Sciences*. Volume 249, 10 November 2013, Pages 38 – 47.
- ♦ Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri, Gabriele Tolomei. **Discovering Tasks from Search Engine Query Logs**. *ACM Transactions on Information Systems*. Volume 31 Issue 3, July 2013. Article No. 14.
- 2012 ♦ Daniele Broccolo, Lorenzo Marcon, Franco Maria Nardini, Raffaele Perego, Fabrizio Silvestri. **Generating suggestions for queries in the long tail with an inverted index**. *Inf. Process. Manage.* 48(2): 326-339.
- ♦ Gabriele Capannini, Fabrizio Silvestri, Ranieri Baraglia. **Sorting on GPUs for large scale datasets: A thorough comparison**. *Inf. Process. Manage.* 48(5): 903-917.
- 2011 ♦ Gabriele Capannini, Franco Maria Nardini, Raffaele Perego, Fabrizio Silvestri. **Efficient Diversification of Web Search Results**. *Proceedings of the VLDB Endowment*, Vol. 4, No. 7.

Publications (cont.)

- 2010 ♦ Theodora Varvarigou, Konstantinos Tserpes, Dimosthenis Kyriazis, Fabrizio Silvestri and Nikolaos Psimogiannos. **A study on the effect of application and resource characteristics on the QoS in service provisioning environments.** *International Journal of Distributed Systems and Technologies (IJDST)*. 1(1).
- ♦ Diego Puppini, Fabrizio Silvestri, Raffaele Perego, Ricardo A. Baeza-Yates. **Tuning the capacity of search engines: Load-driven routing and incremental caching to reduce and balance the load.** *ACM Trans. Inf. Syst.* 28(2).
- ♦ Fabrizio Silvestri. **Mining Query Logs: Turning Search Usage Data into Knowledge.** *Foundations and Trends in Information Retrieval* 4(1-2): 1-174.
- 2008 ♦ Ricardo A. Baeza-Yates, Aristides Gionis, Flavio Junqueira, Vanessa Murdock, Vassilis Plachouras, Fabrizio Silvestri. **Design trade-offs for search engine caching.** *Acm Trans. on the WEB* 2(4).
- 2007 ♦ Ranieri Baraglia, Fabrizio Silvestri. **Dynamic personalization of web sites without user intervention.** *Commun. ACM* 50(2): 63-67.
- 2006 ♦ Tiziano Fagni, Raffaele Perego, Fabrizio Silvestri, Salvatore Orlando. **Boosting the performance of Web search engines: Caching and prefetching query results by exploiting historical usage data.** *ACM Trans. Inf. Syst.* 24(1): 51-78.
- ♦ Fabrizio Silvestri, Diego Puppini, Domenico Laforenza, Salvatore Orlando. **Toward a search architecture for software components.** *Concurrency and Computation: Practice and Experience* 18(10): 1317-1331.
- 2004 ♦ Fabrizio Silvestri, Ranieri Baraglia, Paolo Palmerini. **On-line Generation of Suggestions for Web Users.** *Journal Of Digital Information Management (JDIM)*, Vol. 2(2), June 2004, pp. 104-108.

Selected Conference Papers

- 2016 ♦ Nicola Barbieri, Mounia Lalmas, Fabrizio Silvestri. **Improving Post-Click User's Engagement on Native Ads via Survival Analysis.** WWW 2016.
- 2015 ♦ Ricardo Baeza-Yates, Di Jiang, Fabrizio Silvestri, Beverly Harrison. **Predicting The Next App That You Are Going To Use.** WSDM 2015.
- ♦ Carlos A. Colmenares, Marina Litvak, Amin Mantrach, Fabrizio Silvestri. **HEADS: Headline Generation as Sequence Prediction Using an Abstract Feature-Rich Space.** NAACL 2015.

Publications (cont.)

- ◆ Mihajlo Grbovic, Nemanja Djuric, Vladan Radosavljevic, Fabrizio Silvestri, Narayan Bhamidipati. **Context- and Content-aware Embeddings for Query Rewriting in Sponsored Search.** Full paper to appear at SIGIR 2015.
- ◆ Janette Lehmann, Mounia Lalmas, Guy Shaked, Fabrizio Silvestri, Gabriele Tolomei. **Promoting Positive Post-click Experience for In-Stream Yahoo Gemini Users.** *Industry Track at KDD 2015.*
- 2013
 - ◆ Daniele Broccolo, Craig Macdonald, Salvatore Orlando, Iadh Ounis, Raffaele Perego, Fabrizio Silvestri and Nicola Tonellotto. **Load-Sensitive Selective Pruning for Distributed Search.** CIKM 2013.
 - ◆ Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri, Gabriele Tolomei. **Modeling and Predicting the Task-by-Task Behavior of Search Engine Users.** *OAIR 2013.*
- 2012
 - ◆ Claudio Lucchese, Raffaele Perego, Fabrizio Silvestri, Hossein Vahabi, Rossano Venturini. **How Random Walks Can Help Tourism.** *ECIR 2012*: 195-206.
 - ◆ Berkant Barla Cambazoglu, Simon Jonassen, Fabrizio Silvestri. **Prefetching Query Results and its Impact on Search Engines.** *SIGIR 2012*: 631-640.
 - ◆ Francesco Bonchi, Raffaele Perego, Fabrizio Silvestri, Hossein Vahabi, and Rossano Venturini. **Efficient Query Recommendations in the Long Tail via Center-Piece Subgraphs.** *SIGIR 2012*: 345-354.
 - ◆ Marco Pennacchiotti, Fabrizio Silvestri, Hossein Vahabi, Rossano Venturini. **Making your interests follow you on twitter.** *CIKM 2012*: 165-174.
- 2011
 - ◆ Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri, Gabriele Tolomei. **Identifying Task-based Sessions in Search Engine Query Logs** (full paper for oral presentation). *WSDM 2011*: 277-286.
 - ◆ Diego Ceccarelli, Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri. **Caching query-biased snippets for efficient retrieval.** *EDBT 2011*: 93-104.
- 2010
 - ◆ Fabrizio Silvestri, Rossano Venturini. **VSEncoding: efficient coding and fast decoding of integer lists via dynamic programming.** *CIKM 2010*: 1219-1228.
 - ◆ Gabriele Capannini, Fabrizio Silvestri, Ranieri Baraglia. **K-Model: A New Computational Model for Stream Processors.** *HPCC 2010*: 239-246.
 - ◆ Daniele Broccolo, Ophir Frieder, Franco Maria Nardini, Raffaele Perego, Fabrizio Silvestri. **Incremental Algorithms for Effective and Efficient Query Recommendation.** *SPIRE 2010*: 13-24.

Publications (cont.)

- ◆ Ranieri Baraglia, Carlos Castillo, Debora Donato, Franco Maria Nardini, Raffaele Perego, Fabrizio Silvestri. **The Effects of Time on Query Flow Graph-based Models for Query Suggestion.** *RIAO 2010*: 182-189.
- ◆ Hoang Thanh Lam, Dinh Viet Dung, Raffaele Perego, Fabrizio Silvestri. **An Incremental Prefix Filtering Approach for the All Pairs Similarity Search Problem.** *APWeb 2010*: 188-194.
- 2009
 - ◆ Ranieri Baraglia, Fidel Cacheda, Victor Carneiro, Diego Fernandez, Vreixo Formoso, Raffaele Perego, Fabrizio Silvestri. **Search shortcuts: a new approach to the recommendation of queries.** *ACM RecSys 2009*: 77-84.
 - ◆ Hoang Thanh Lam, Raffaele Perego, Nguyen Thoi Minh Quan, Fabrizio Silvestri. **Entry Pairing in Inverted File.** *WISE 2009*: 511-522.
- 2008
 - ◆ Fabrizio Silvestri, Ranieri Baraglia, Claudio Lucchese, Salvatore Orlando, Raffaele Perego. **(Query) History Teaches Everything, Including the Future.** *LA-WEb 2008*: 12-22.
- 2007
 - ◆ Fabrizio Silvestri. **Sorting Out the Document Identifier Assignment Problem.** *ECIR 2007*: 101-112. [Best Paper Award].
 - ◆ Ricardo A. Baeza-Yates, Carlos Castillo, Flavio Junqueira, Vassilis Plachouras, Fabrizio Silvestri. **Challenges on Distributed Web Retrieval.** *ICDE 2007*: 6-20.
 - ◆ Diego Puppini, Fabrizio Silvestri, Raffaele Perego, Ricardo A. Baeza-Yates. **Load-balancing and caching for collection selection architectures.** *Infoscale 2007*: 2.
 - ◆ Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri. **Mining query logs to optimize index partitioning in parallel web search engines.** *Infoscale 2007*: 43.
 - ◆ Ricardo A. Baeza-Yates, Aristides Gionis, Flavio Junqueira, Vanessa Murdock, Vassilis Plachouras, Fabrizio Silvestri. **The impact of caching on search engines.** *SIGIR 2007*: 183-190.
 - ◆ Carlos Castillo, Debora Donato, Aristides Gionis, Vanessa Murdock, Fabrizio Silvestri. **Know your neighbors: web spam detection using the web topology.** *SIGIR 2007*: 423-430.
- 2006
 - ◆ Diego Puppini, Fabrizio Silvestri, Domenico Laforenza. **Query-driven document partitioning and collection selection.** *Infoscale 2006*: 34.
 - ◆ Diego Puppini, Fabrizio Silvestri. **The social network of Java classes.** *SAC 2006*: 1409-1413.

Publications (cont.)

- ◆ Ranieri Baraglia, Claudio Lucchese, Salvatore Orlando, Massimo Serranó, Fabrizio Silvestri. **A privacy preserving web recommender system.** *SAC 2006*: 559-563.
- 2005 ◆ Diego Puppín, Stefano Moncelli, Ranieri Baraglia, Nicola Tonellotto, Fabrizio Silvestri. **A Grid Information Service Based on Peer-to-Peer.** *Euro-Par 2005*: 454-464.
- 2004 ◆ Diego Puppín, Fabrizio Silvestri, Domenico Laforenza. **An evaluation of component-based software design approaches.** *CCGRID 2004*: 744-753.
- ◆ Tiziano Fagni, Raffaele Perego, Fabrizio Silvestri. **A Highly Scalable Parallel Caching System for Web Search Engine Results.** *Euro-Par 2004*: 347-354.
- ◆ Fabrizio Silvestri, Salvatore Orlando, Raffaele Perego. **WINGS: A Parallel Indexer for Web Contents.** *International Conference on Computational Science 2004*: 263-270.
- ◆ Fabrizio Silvestri, Raffaele Perego, Salvatore Orlando. **Assigning document identifiers to enhance compressibility of Web Search Engines indexes.** *SAC 2004*: 600-605.
- ◆ Fabrizio Silvestri, Salvatore Orlando, Raffaele Perego. **Assigning identifiers to documents to enhance the clustering property of fulltext indexes.** *SIGIR 2004*: 305-312.
- ◆ Ranieri Baraglia, Fabrizio Silvestri. **An Online Recommender System for Large Web Sites.** *Web Intelligence 2004*: 199-205. [Best Paper Award].
- ◆ Fabrizio Silvestri, Diego Puppín, Domenico Laforenza, Salvatore Orlando. **A Search Architecture for Grid Software Components.** *Web Intelligence 2004*: 495-498.
- 2002 ◆ Salvatore Orlando, Paolo Palmerini, Raffaele Perego, Fabrizio Silvestri. **Scheduling High Performance Data Mining Tasks on a Data Grid Environment.** *Euro-Par 2002*: 375-384.
- ◆ Salvatore Orlando, Paolo Palmerini, Raffaele Perego, Fabrizio Silvestri. **Adaptive and Resource-Aware Mining of Frequent Sets.** *ICDM 2002*: 338-345.
- 2001 ◆ Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri. **Design of a Parallel and Distributed Web Search Engine.** *ParCo 2001*:197-204.

Publications (cont.)

Book Chapters

- 2013 ♦ Gabriele Capannini, Ranieri Baraglia, Franco Maria Nardini, Fabrizio Silvestri. **Effective Data Access Patterns on Massively Parallel Processors**.
- ♦ Claudio Lucchese, Cristina Ioana Muntean, Raffaele Perego, Fabrizio Silvestri, Hossein Vahabi, Rossano Venturini. **Recommender Systems**. Chapter in the book: *Mining of User Generated Content and Its Applications*, Editors: Marie-Francine Moens, Juanzi Li, Tat-Seng Chua. Taylor & Francis (CRC Press).
- 2012 ♦ Schahram Dustdar, Philipp Leitner, Franco Maria Nardini, Fabrizio Silvestri, Gabriele Tolomei. **Mining Lifecycle Event Logs for Enhancing Service-based Applications**. Chapter in the book: *Adaptive Web Services for Modular and Reusable Software Development: Tactics and Solutions*, Editors: Guadalupe Ortiz and Javier Cubo. IOS Press, Amsterdam, 2012.
- 2010 ♦ Ranieri Baraglia, Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri. *Preserving Privacy in Web Recommender Systems*. Chapter in the book: *Privacy-Aware Knowledge Discovery: Novel Applications and New Techniques*. F. Bonchi, and E. Ferrari (Eds), Chapman Hall/CRC Data Mining and Knowledge Discovery Series. 1st edition, December 2, 2010.
- 2009 ♦ Ronny Lempel, Fabrizio Silvestri. **Web Search Result Caching and Prefetching**. *Encyclopedia of Database Systems 2009*: 3501-3506.
- ♦ Elisabetta Di Nitto, Dimka Karastoyanova, Andreas Metzger, Michael Parkin, Marco Pistore, Klaus Pohl, Fabrizio Silvestri and Willem Jan den Heuvel. **S-Cube: Addressing Multidisciplinary Research Challenges for the Internet of Services**. In *Towards the Future Internet: A European Research Perspective*, IOS Press, Amsterdam, 2009.
- 2007 ♦ Domenico Laforenza, Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Diego Puppini, Fabrizio Silvestri. **On the Value of Query Logs for Modern Information Retrieval**. In *Distributed Agent-based Retrieval Tools*, A. Soro, G. Paddeu and G. Armano (Eds.), Polimetrica International Scientific Publisher, Italy.
- 2005 ♦ Diego Puppini, Fabrizio Silvestri, Domenico Laforenza, Salvatore Orlando. **A Search Architecture for Grid Software Components**, in *Future Generation Grids, Proceedings of the Workshop on Future Generation Grids* November 1-5, 2004, Dagstuhl, Germany Getov, Vladimir; Laforenza, Domenico; Reinefeld, Alexander (Eds.) 2006, XVIII, 308 p. 30 illus., Hardcover ISBN: 0-387-27935-0.
- 2004 ♦ Fabrizio Silvestri, Diego Puppini, Domenico Laforenza, Salvatore Orlando. **Toward GRIDLE: A Way to Build Grid Applications Searching Through an Ecosystem of Components**. in *GRID COMPUTING: SOFTWARE ENVIRONMENTS AND TOOLS*. Jose C. Cunha and Omer F. Rana (Eds).

Publications (cont.)

Other (Referred) Publications

- 2014 ♦ Cristina Ioana Muntean, Franco Maria Nardini, Fabrizio Silvestri, Marcin Sydow. **Learning to shorten query sessions.** *WWW (Companion Volume) 2013*.
- 2013 ♦ Ranieri Baraglia, Cristina Ioana Muntean, Franco Maria Nardini, Fabrizio Silvestri. **LearNext: Learning to Predict Tourists Movements.** *CIKM 2013* Short Paper.
- ♦ Daniele Broccolo, Craig Macdonald, Salvatore Orlando, Iadh Ounis, Raffaele Perego, Fabrizio Silvestri and Nicola Tonellotto. **Query Processing in Highly-Loaded Search Engines.** *SPIRE 2013* Short Paper.
- ♦ Roi Blanco, Gianmarco De Francisci Morales and Fabrizio Silvestri. **Towards Leveraging Closed Captions for News Retrieval.** *WWW 2013*.
- ♦ Cristina Ioana Muntean, Franco Maria Nardini, Fabrizio Silvestri and Marcin Sydow. **Learning to Shorten Query Sessions.** *WWW 2013*.
- 2012 ♦ Kris Jack, Maurizio Sambati, Fabrizio Silvestri, Salvatore Trani, Rossano Venturini. **Cite-as-you-write.** *ERCIM News 2012*(90).
- ♦ Ranieri Baraglia, Claudio Frattari, Cristina Ioana Muntean, Franco Maria Nardini, Fabrizio Silvestri. **A Trajectory-Based Recommender System for Tourism.** *AMT 2012*: 196-205.
- ♦ Francesco Bonchi, Ophir Frieder, Franco Maria Nardini, Fabrizio Silvestri, Hossein Vahabi. **Interactive and context-aware tag spell check and correction.** *CIKM 2012*: 1869-1873.
- ♦ Roi Blanco, Diego Ceccarelli, Claudio Lucchese, Raffaele Perego, Fabrizio Silvestri. **You should read this! let me explain you why: explaining news recommendations to users.** *CIKM 2012*: 1995-1999.
- ♦ Giacomo Berardi, Andrea Esuli, Fabrizio Sebastiani, Fabrizio Silvestri. **Blog Distillation via Sentiment-Sensitive Link Analysis.** *NLDB 2012*: 228-233.
- 2011 ♦ Schahram Dustdar, Philipp Leitner, Franco Maria Nardini, Fabrizio Silvestri and Gabriele Tolomei. **Mining Lifecycle Event Logs for Enhancing Service-based Applications.** *1st International Workshop on Adaptive Services for the Future Internet*, in conjunction with ServiceWave 2011. 28th October, Poznan, Poland.
- ♦ Giacomo Berardi, Andrea Esuli, Fabrizio Sebastiani, Fabrizio Silvestri. **Blog Distillation via Sentiment-Sensitive Link Analysis.** *IIR 2011*.

Publications (cont.)

- ◆ Gabriele Capannini, Franco Maria Nardini, Raffaele Perego, Fabrizio Silvestri. **A Search Architecture Enabling Efficient Diversification of Search Results.** In *Proceedings of ECIR 2011 Workshop on Diversity in Document Retrieval*. DDR 2011.
 - ◆ Gabriele Capannini, Franco Maria Nardini, Raffaele Perego, Fabrizio Silvestri. **Efficient Diversification of Search Results using Query Logs.** *WWW 2011*.
 - ◆ Francesco Bonchi, Raffaele Perego, Fabrizio Silvestri, Hossein Vahabi, Rossano Venturini. **Recommendations for the Long Tail by Term-Query Graph.** *WWW 2011*.
 - ◆ Raffaele Perego, Fabrizio Silvestri, Nicola Tonellotto. **Representing Document Lengths with Identifiers.** *ECIR 2011*.
- 2010
- ◆ Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri, Gabriele Tolomei. **Detecting Task-Based Query Sessions Using Collaborative Knowledge.** *International Workshop on Intelligent Web Interaction (IWI 2010)*, in conjunction with 2010 IEEE/WIC/ACM International Conferences on Web Intelligence, August 31 - September 3, 2010, Toronto, Canada pp. 128-131. 2010.
 - ◆ Gabriele Tolomei, Salvatore Orlando, Fabrizio Silvestri. **Towards a task-based search and recommender systems.** *ICDE Workshops 2010*: 333-336.
 - ◆ Daniele Broccolo, Franco Maria Nardini, Raffaele Perego, Fabrizio Silvestri. **Refreshing Models to Provide Timely Query Recommendations.** *IIR 2010*: 97-98.
 - ◆ Lam Hoang Thanh Lam, Raffaele Perego, Fabrizio Silvestri. **On Using Query Logs for Static Index Pruning.** *WI 2010*: 167-170.
 - ◆ Franco Maria Nardini, Fabrizio Silvestri, Hossein Vahabi, Pedram Vahabi, Ophir Frieder. **On Tag Spell Checking.** *SPIRE 2010*: 37-42.
- 2009
- ◆ Ranieri Baraglia, Carlos Castillo, Debora Donato, Franco Maria Nardini, Raffaele Perego, Fabrizio Silvestri. **Aging effects on query flow graphs for query suggestion.** *CIKM 2009*: 1947-1950.
 - ◆ Ranieri Baraglia, Fidel Cacheda, Victor Carneiro, Vreixo Formoso, Raffaele Perego, Fabrizio Silvestri. **Search shortcuts: driving users towards their goals.** *WWW 2009*: 1073-1074.
 - ◆ Matteo Mordacchini, Patrizio Dazzi, Gabriele Tolomei, Ranieri Baraglia, Fabrizio Silvestri, Salvatore Orlando. **Challenges in designing an interest-based distributed aggregation of users in P2P systems.** *ICUMT 2009*: 1-8.

Publications (cont.)

- ◆ Gabriele Capannini, Fabrizio Silvestri, Ranieri Baraglia, and Franco Maria Nardini. **Sorting using BItonic netwoRk wIth CUDA**. *7th Workshop on LSDS-IR (SIGIR 2009 Workshop)*.
- 2008 ◆ Domenico Laforenza, Franco Maria Nardini, Fabrizio Silvestri. **Collaborative ranking of grid-enabled workflow service providers**. *HPDC 2008*: 227-228.
- ◆ Domenico Laforenza, Franco Maria Nardini, Fabrizio Silvestri, Gabriele Tolomei. **SPRANKER: A Discovery Tool to Rank Service Providers Using Quality of Experience**. *ERCIM News 2008(74)*: (2008)
- 2007 ◆ Domenico Laforenza, R. Lombardo, M. Scarpellini, M. Serranó, Fabrizio Silvestri, P. Faccioli. **Biological Experiments on the Grid: A Novel Workflow Management Platform**. *CBMS 2007*: 489-494.
- ◆ Konstantinos Tserpes, Dimosthenis Kyriazis, Andreas Menychtas, Theodora A. Varvarigou, Fabrizio Silvestri, Domenico Laforenza. **An Open Architecture for QoS Information in Business Grids**. *CoreGRID 2007*: 37-49.
- 2006 ◆ Domenico Laforenza, Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Diego Puppini, Fabrizio Silvestri. **On the Value of Query Logs for Modern Information Retrieval**. Invited Paper. *In Proceedings of the Distributed Agent-based Retrieval Tools - The Future of Search Engines Technologies (DART 2006)*.
- ◆ Diego Puppini, Fabrizio Silvestri. **The query-vector document model**. *CIKM 2006*: 880-881.
- 2005 ◆ Diego Puppini, Fabrizio Silvestri, Domenico Laforenza. **Component Metadata Management and Publication for the Grid**. *ITCC (2) 2005*: 187-192.
- 2004 ◆ Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri. **Web-Docs: a real-life huge transactional dataset**. *FIMI 2004*.
- ◆ Diego Puppini, Stefano Moncelli, Ranieri Baraglia, Fabrizio Silvestri, Nicola Tonelotto. **A Peer-to-Peer Information Service for the Grid**. *Proceedings of the GridNets 2004 Workshop on Networks for Grid Applications*, in conjunction with BroadNet 2004. October 29, 2004, San Jose, CA, USA.
- ◆ Ranieri Baraglia, Francesco Merlo, Fabrizio Silvestri. **An Effective Recommender System for Highly Dynamic and Large Web Sites**. *PKDD 2004*: 531-533.
- ◆ Ranieri Baraglia, Fabrizio Silvestri. **An Online Recommender System**. *SEBD 2004*: 130-141.

Publications (cont.)

- ◆ Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri. **Assigning Document Identifiers to Enhance Compressibility of Fulltext Indices.** *SEBD 2004*: 222-229.
- ◆ Fabrizio Silvestri, Ranieri Baraglia, Paolo Palmerini, Massimo Serranó. **On-line Generation of Suggestions for Web Users.** *ITCC (1) 2004*: 392-397.
- 2003 ◆ Fabrizio Silvestri, Tiziano Fagni, Salvatore Orlando, Paolo Palmerini, Raffaele Perego. **A Hybrid Strategy for Caching Web Search Engine Results.** *WWW 2003*.
- ◆ Salvatore Orlando, Claudio Lucchese, Paolo Palmerini, Raffaele Perego, Fabrizio Silvestri. **kDCI: a Multi-Strategy Algorithm for Mining Frequent Sets.** *FIMI 2003*.
- 2002 ◆ Salvatore Orlando, Paolo Palmerini, Raffaele Perego, Fabrizio Silvestri. **An Efficient Parallel and Distributed Algorithm for Counting Frequent Sets.** *VECPAR 2002*: 421-435.

Invited Presentations

- 2015 ◆ **On the Use of Word Embeddings in Query Rewriting for Sponsored Search.** HCI-LIIR seminar. 2015. KU Leuven. Host: Prof. Marie-Francine Moens
- 2009 ◆ **Query Recommender Systems**, 2009, USI Università della Svizzera Italiana, Lugano, Svizzera. Host: Prof. Fabio Crestani.
- 2008 ◆ **Collection Prioritization and Incremental Caching**, June, 2008. EPFL, Lausanne, Switzerland. Hosts: Prof. Karl Aberer & Gleb Skobeltsyn.
- ◆ **Collection Prioritization and Incremental Caching**, October, 2008. Barcelona Media Seminars, Barcelona, Spain. Host: Vincente López.
- 2007 ◆ **Information Retrieval and Bioinformatics**, March, 2007. Informatics and Biomedical Engineering, Department of Experimental and Clinical Medicine, Faculty of Medicine, University “Magna Grecia” of Catanzaro. Hosts: Prof. Mario Cannataro and Prof. Pierangelo Veltri.
- ◆ **Low-fat Search Engines with Collection-Selection Oriented Caching**, June 18-20, 2007. The Future of Web Search. Bertinoro.
- ◆ **Incremental Caching for Collection Selection Architectures**, June 27, 2007. Information Retrieval/Search Technologies Seminar 2007 - IBM Haifa Labs. Host: Ronny Lempel.

Invited Presentations (cont.)

- 2006 ♦ **Boosting Performance of Web Search Engines Using Query Logs**, May, 2006. Yahoo! Research Labs and University Pompeu Fabra - Barcelona, Spain. Host: Prof. Ricardo Baeza-Yates.
- ♦ **On the Value of Query Logs for Modern Information Retrieval**, May, 2006. Distributed Agent-based Retrieval Tools The Future of Search Engines – Technologies. S. Margherita di Pula, Cagliari, Italy.
- ♦ **The Query-Vector Document Model**, November, 2006. Computer Science Department, University of A Coruna, A Coruna, Spain. Hosts: Prof. Alvaro Barreiro & Roi Blanco.
- 2004 ♦ **High Performance Issues in Web Search Engines: Algorithms and Techniques**, October, 2004. Laboratoire LE2I (UMR - CNRS) - University of Bourgogne - Dijon, France. Host: Prof. Richard Chbeir.

Tutorials

- 2011 ♦ Salvatore Orlando, Raffaele Perego, and Fabrizio Silvestri. **Mining query logs to improve web search engines' operations**. Joint *RuSSIR/EDBT Summer School 2011* (Web of Data). August 15-19, 2011. Saint Petersburg, Russia.
- 2009 ♦ Salvatore Orlando, Fabrizio Silvestri. **Mining Query Logs**. *31st European Conference on Information Retrieval (ECIR 2009)*.
- ♦ Ricardo Baeza-Yates, Fabrizio Silvestri. **Query Log Mining**, *18th International World Wide Web Conference (WWW 2009)*.
- ♦ Ricardo Baeza-Yates, Raffaele Perego, Fabrizio Silvestri. **Web Query Log Mining**, The *32nd Annual ACM SIGIR Conference (SIGIR 2009)*.
- ♦ Salvatore Orlando, Fabrizio Silvestri. **Query Log Analysis for Enhancing Web Search**. The *2009 IEEE / WIC / ACM International Conferences on Web Intelligence (WI 09)*.

Professional Activities

Member of Editorial Boards

- ♦ Member of the Editorial Board of Information Retrieval Journal
- ♦ Member of the Editorial Board of IEEE TKDE

Professional Activities (cont.)

Organizing Committee Member

- ◆ SIGIR 2013-2015 Area Chair for Query Log Mining.
- ◆ WWW 2013 First Workshop on Social News on the Web @ WWW '13, Rio de Janeiro, Brazil
- ◆ WSDM 2013 Doctoral Consortium Co-chair and Proceedings Chair.
- ◆ CIKM 2012 Senior Program Committee Member for Information Retrieval
- ◆ SIGIR 2012 Area Chair for Search Engine Architectures and Scalability.
- ◆ SPIRE 2012 Tutorial Chair
- ◆ ECIR 2012 Industry Track Co-Chair.
- ◆ ECIR 2012 Senior Program Committee Member.
- ◆ CIKM 2011 Senior Program Committee Member for the Information Retrieval Track.
- ◆ CIKM 2011 Tutorial Chair.
- ◆ SIGIR 2011 Area Chair for Search Engine Architectures and Scalability.
- ◆ ECIR 2008 Workshop on Efficiency Issue in IR. (EIIR 2008).
- ◆ The Third International Conference on Scalable Information Systems. (INFOSCALE 2008).
- ◆ SIGIR 2007 workshop on Large Scale Distributed Systems for Information Retrieval (LSDS-IR 2007).
- ◆ CIKM 2006 workshop on Peer-to-Peer Information Retrieval (P2PIR 2006).
- ◆ SIGIR 2005 workshop on Heterogeneous and Distributed Information Retrieval (HDIR 2005).

Steering Committee Member

- ◆ SPIRE International Conference on String Processing and Information Retrieval [12-14].
- ◆ SIGIR Large Scale Distributed Systems for IR (LSDS-IR) Workshop [08-10].

Professional Activities (cont.)

Program Committee Chair

- ◆ ECIR 2016 Short Paper PC Co-Chair
- ◆ ASONAM 2015 PC Co-Chair
- ◆ CIKM 2013 Associate PC-Chair for IR.
- ◆ AIRS 2013 PC Co-Chair
- ◆ SPIRE 2011 (IR Track).
- ◆ AICCS 2011 (IR & DB Track).
- ◆ INFOSCALE 2007.

Program Committee Member

- ◆ Member or the PCs of the major conferences. ECML PKDD, ICDM, SIG KDD, SIGIR, WSDM, WWW, SPIRE, ICDE, VLDB, ECIR, ICTIR, ...

Ph.D. Committee Member

- ◆ Muhammad Ali Norozi, NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET (NTNU), Trondheim, Norway, 2013.
- ◆ Mostafa Keikha, Università della Svizzera Italiana, Lugano, Svizzera, 2012.
- ◆ Liliana Calderón, University of Pompeu Fabra, 2011.
- ◆ Cristina González, University of Pompeu Fabra, 2011.
- ◆ Renaud Delbru, Digital Enterprise Research Institute, National University of Ireland Galway, 2010.
- ◆ Libertad Tansini, University of Gothenburg, 2009.
- ◆ Barbara Poblete, University of Pompeu Fabra, 2009.
- ◆ Roi Blanco, Ph.D. University of A Coruna, 2008.
- ◆ Gleb Skobeltsyn, Ph.D. EPFL, 2008.

Professional Activities (cont.)

- ◆ Nicholas Lester, Ph.D. RMIT University Australia, 2006.

Projects

Past Research Projects

- 2002–2004 ◆ Progetto Strategico Legge 449/97, 1999. ECD: Technologies and Services for Enhanced Contents Delivery.
- 2002–2003 ◆ Progetto finanziato dalla Fondazione Cassa di Risparmio di Pisa. WebDigger: un ambiente di Data Mining per l'analisi intelligente di dati Web.
- 2002–2005 ◆ Progetto FIRB. GridIT: Piattaforme abilitanti per griglie computazionali a elevate prestazioni orientate a organizzazioni virtuali scalabili.
- 2004–2007 ◆ EU FP6 Integrated Project (IP). NextGRID: Next Generation Grid.
◆ EU FP6 Network of Excellence (NoE). CoreGRID: European Research Network on Foundations, Software Infrastructures and Applications for large scale distributed, GRID and Peer-to-Peer Technologies.
- 2005–2008 ◆ Progetto MIUR COFIN2004. GeoPKDD: Geographic Privacy-aware Knowledge Discovery and Delivery.
- 2005–2006 ◆ Progetto Ministero per le Politiche Agricole e Forestali (MiPAF). ESCOG-ITARE: Uninfrastruttura di E-SCienze per gli Istituti di Ricerca del settore aGro-allmenTARE.
- 2006–2008 ◆ EU FP6 STREP Project. SAPIR: Search on Audio-visual content using Peer-to-peer Information Retrieval.
- 2009–2012 ◆ EU FP7 Network of Excellence (NoE) S-Cube: The Software Services and Systems Network.
- 2010–2012 ◆ EU FP7 Project. ASSETS: Advanced Service Search and Enhancing Technological Solutions for the European Digital Library.
- 2010–2011 ◆ POR CREO FESR, Regione Toscana. VISITO Tuscany: Visual Support to Interactive TOurism.

Projects (cont.)

Responsibilities in Projects

- 2009–2012 ♦ EU Network of Excellence (NoE) S-Cube: The Software Services and Systems Network. Activity Leader: Integrating Knowledge and Resources (IA-1); Member of the Project Steering Committee.

Students Supervised

Ph.D. Students

- ♦ *Franco Maria Nardini*. Query Log Mining to Enhance User Experience in Search Engines.
- ♦ *Gabriele Capannini*. The Impact of Novel Computing Architectures on Large-Scale Distributed Web IR Systems.
- ♦ *Gabriele Tolomei*. Next-generation Web Search: from Documents To Be Retrieved To Tasks To Be Suggested and Executed.
- ♦ *Hossein Vahabi*. Managing Collaborative Knowledge: Models, Algorithms, and Applications of Folksonomies to Social Web Platforms.
- ♦ *Daniele Broccolo*. Distributed Search Architectures.

M.Sc. Students

- ♦ *Tiziano Fagni*. Valutazione di un sistema di caching per motori di ricerca Web, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2002.
- ♦ *Cinzia Agosta*. Progettazione di un sistema parallelo e distribuito per l'indicizzazione di documenti Web, Università di Pisa, Facoltà di Ingegneria, Corso di Laurea in Ingegneria Informatica, 2002.
- ♦ *Francesco Summa*. Progettazione di un sistema parallelo e distribuito per l'indicizzazione di documenti Web, Università di Pisa, Facoltà di Ingegneria, Corso di Laurea in Ingegneria Informatica, 2002.
- ♦ *Manlaviti Antonio*. Strumenti per la ricerca e l'indicizzazione di risorse in ambienti grid, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2004.

Students Supervised (cont.)

- ◆ *Moncelli Stefano*. Strumenti per la ricerca e l'indicizzazione di risorse in ambienti grid, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2004.
- ◆ *Romano Angelo*. Studio e analisi proprietà variazione in comunità web, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2007.
- ◆ *Malfatti Matteo*. Heresy: a framework for handy evaluation of recommender systems, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2007.
- ◆ *Broccolo Daniele*. Studio e Comparazione di algoritmi per query recommendation in motori di ricerca web, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2009.
- ◆ *Agozzino Giovanni*. Sviluppo di un sistema scalabile per la compressione di testi basato sull'algoritmo Lempel-ziv 78, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.
- ◆ *Grasso Ivan*. Implementazione ed analisi di un IR query processor su architettura CELL/B.E., Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.
- ◆ *Ielpi Francesco*. Sviluppo di un sistema scalabile per la compressione di testi basato sull'algoritmo Lempel-ziv 78, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.
- ◆ *Marcon Lorenzo*. An efficient algorithm to generate search shortcuts, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.
- ◆ *Vespier Ugo*. Bringing order to social photo collections: augmenting and re-organizing geotagged visula content by exploiting social wisdom, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.
- ◆ *Berardi Giacomo*. Studio di algoritmi di random walk basati su sentimental analysis per l'ordinamento di risultati di ricerche su blogs, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.
- ◆ *Paradisi Romina*. Pruning statico di posting a basso impatto su indici per sistemi di information retrieval, Università di Pisa, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.
- ◆ *Sambati Maurizio*. Cite-as-you-write: raccomandazione di citazioni per articoli scientifici, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.

Students Supervised (cont.)

- ◆ *Trani Salvatore*. Cite-as-you-write: raccomandazione di citazioni per articoli scientifici, Facoltà di Scienze Matematiche Fisiche e Naturali, Corso di Laurea in Informatica, 2010.

Teaching

- 2002-2004 ◆ Teaching Assistant. Corso di Laurea in Informatica - University of Pisa - **Laboratorio di Programmazione di Rete**.
- 2004 ◆ Teacher. Corso di Laurea in Informatica - University of Pisa - **Laboratorio di Programmazione Concorrente**.
- 2005 ◆ Teacher. Corso di Laurea Specialistica in Informatica e Corso di Laurea Specialistica in Tecnologie Informatiche - University of Pisa - **Mining di Dati Web (MDW)**.
- 2007 ◆ Teacher. Corso di Laurea Specialistica in Informatica e Corso di Laurea Specialistica in Tecnologie Informatiche - University of Pisa - **Mining di Dati Web (MDW)**.
- 2008-2009 ◆ Teacher. Corso di Laurea Specialistica in Informatica per l'Economia e per l'Azienda - University of Pisa - **Web Mining (WMA)**.
- 2015 ◆ Teacher. Master on Intelligent Interactive Systems - University of Pompeu Fabra, Barcelona - **Web Intelligence Course**.

Guest Editor Activities

- 2013 ◆ Roberto Grossi, Fabrizio Sebastiani, Fabrizio Silvestri: Special Issue on Selected SPIRE 2011 papers. *Journal of Discrete Algorithms*
- 2009 ◆ Wang-Chien Lee, Jianliang Xu, Jianzhong Li, Fabrizio Silvestri: Special Section: Scalable information systems. *Future Generation Comp. Syst.* 25(1): 51-52 (2009) [Guest Editor for Special Issue on INFOSCALE 2007]
- 2007 ◆ Fabrizio Silvestri: Special issue on heterogeneous and distributed IR. *Inf. Process. Manage.* 43(3): 549-551 (2007)