

EVGENIY GABRILOVICH

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SUMMARY

Senior Research Scientist and NLP & IR Group Manager at Yahoo! Research. 40+ publications in top international venues, 20+ patents filed. Technion Ph.D. (Computer Science). Served on the program committees of virtually every major conference in the field (including WWW, WSDM, SIGIR, CIKM, AAAI, ACL, EMNLP, HLT, COLING). Taught several tutorials on computational advertising and organized a number of workshops at top conferences.

I am interested in advancing the state of the art in information retrieval and natural language processing at Web scale. My recent research has been mainly focused on computational advertising, namely, designing ad matching systems that select contextually relevant ads in sponsored search and content match scenarios. I am also interested in using large-scale repositories of user-contributed knowledge (e.g., all of Wikipedia) to improve text processing and artificial intelligence applications.

PROFESSIONAL EXPERIENCE

[Yahoo! Research](#), Santa Clara, California, USA

January 2007 – present **Senior Research Scientist and Manager, Natural Language Processing and Information Retrieval (NLP & IR) Group**

- Leading a group of researchers in the fields of computational advertising and Web search.
- Conducting research in sponsored search and contextual advertising. I have been working on query classification, expansion and rewriting; optimizing relevance and revenue; ad indexing; domain-specific and site-specific adaptation. One common theme in my research is the use of multiple external sources of information (such as Web search results, classification into an external taxonomy, users' and advertisers' actions), and the combination of online and offline processing to maximize the use of external knowledge.
- Working in close collaboration with scientists and engineers in several groups throughout the company on developing and improving actual advertising systems, including design and analysis of editorial and bucket test evaluations. Several projects I have worked on (mainly in query classification and expansion) are being used as constituent parts in the company's next generation sponsored-search project. The offline query expansion infrastructure is also used in several other major projects.

[Yahoo! Inc.](#) (Search and Marketplace Group), Sunnyvale, California, USA

July 2005 – October 2005 **Summer internship**

- Developed algorithms for identifying named entities in text and representing them with a rich set of linguistically motivated features for subsequent classification.
- Participated in the development of a massively parallel cluster infrastructure for large-scale data processing (MapReduce-like). Implemented a module for named entity recognition using this infrastructure.

[Microsoft Research](#) (Adaptive Systems and Interaction Group), Redmond, Washington, USA

July 2003 – September 2003 **Summer internship**

- Conducted research on analyzing differences in text corpora with applications to personalization of news services (joint work with Susan Dumais and Eric Horvitz).
- Developed new algorithms for assessing the amount of novel information in text documents, using techniques based on statistical language modeling and natural language processing.
- Designed and implemented software infrastructure for corpora analysis and comparison.

[Department of Computer Science, Technion – Israel Institute of Technology](#), Haifa, Israel

2001 – 2006 and 1994 – 1996 **Teaching Assistant (in parallel with graduate studies)**

- Courses taught: Introduction to artificial intelligence, Projects in artificial intelligence and learning systems, Object-oriented programming, Data structures, Introduction to computer science.

Zapper Technologies Ltd., Tel Aviv, Israel

1999 – 2001 **Core Technology Team Leader, Algorithms Group**

- Devised and implemented algorithms for information retrieval and text categorization.
- Acquired deep knowledge of Internet search engine technologies.
- Advised other teams on software development methodology and quality assurance.

[Comverse Technology Inc.](#), Tel Aviv, Israel

1998 – 1999 **Strategic Development Team Leader**

- Devised and implemented algorithms for retrieving information encoded in telephone network transmissions.
- Advised other teams on object-oriented design and visual modeling, software development methodology and quality assurance. Drafted development procedures and guidelines.
- Fostered teamwork and collaboration among employees.

1996 – 1998 **Senior Software Engineer**

- Designed and developed C/C++ libraries in Silicon Graphics IRIX and Windows NT.
- Managed full project lifecycle of the development of a software package for data communication analysis, according to the Capability Maturity Model (CMM).
- Coordinated work with customers.

[DSP Group Inc.](#), Santa Clara, California, USA

July 1995 – October 1995 **Summer internship**

- Performed research in speech processing and automatic speaker recognition.
- Designed and developed a software environment for conducting experiments with speech processing algorithms.

EDUCATION

[Technion – Israel Institute of Technology](#), Haifa, Israel

2001 – 2006 **Ph.D. in Computer Science**

- Specialization in information retrieval, machine learning, and computational linguistics
- **Thesis:** “Feature Generation for Textual Information Retrieval Using World Knowledge”
- **Advisor:** [Prof. Shaul Markovitch](#)

[Technion – Israel Institute of Technology](#), Haifa, Israel

1994 – 1998 **Master of Science in Computer Science**

- Specialization in computational linguistics and artificial intelligence
- **Thesis:** “Natural Language Generation by Abstract Machine for Typed Feature Structures”
- **Advisor:** [Prof. Nissim Francez](#)

[Technion – Israel Institute of Technology](#), Haifa, Israel

1992 – 1994 **Bachelor of Arts in Computer Science (Cum Laude)**

PROFESSIONAL COURSES

- 2008 [Technical Management Program](#), University of California, Los Angeles, USA
- 1998 Management course for team leaders, Comverse Technology Inc., Tel Aviv, Israel

AWARDS AND HONORS

- Invited participant at the [2009 U.S. Frontiers of Engineering Symposium](#) by the National Academy of Engineering
- Outstanding reviewer, COLING-ACL 2006 (Joint Conference of the International Committee on Computational Linguistics and the Association for Computational Linguistics)

PROFESSIONAL AFFILIATIONS

- [Institute of Electrical and Electronics Engineers](#) (IEEE) – Senior Member
- [Association for Computing Machinery](#) (ACM)

LANGUAGE PROFICIENCY

- **English** Fluent knowledge
- **Hebrew** Fluent knowledge
- **Russian** Mother tongue
- **German** Basic knowledge
- **Spanish** Basic knowledge

REFERENCES Available upon request

PROFESSIONAL ACTIVITIES

Journal editorial board member

- [ACM Transactions on Intelligent Systems and Technology \(TIST\)](#)

Journal reviewer

- [ACM Transactions on Information Systems \(TOIS\)](#)
- [ACM Transactions on Internet Technology \(TOIT\)](#)
- [ACM Transactions on the Web \(TWEB\)](#)
- [Artificial Intelligence Journal](#)
- [Communications of the ACM](#)
- [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#)
- [Data Mining and Knowledge Discovery](#)
- [Information Processing and Management](#)
- [Journal of Natural Language Engineering](#)

Tutorial instructor

- “Introduction to Computational Advertising” at [CIKM 2009](#), [IJCAI 2009 \(invited\)](#), [EC 2008](#), [ACL-HLT 2008 \(invited\)](#).

Workshop organizer

- [“Information Retrieval and Advertising”](#) at [SIGIR 2009](#)
- [“User-Contributed Knowledge and Artificial Intelligence: An Evolving Synergy”](#) at [IJCAI 2009](#)
- [“Information Retrieval for Advertising”](#) at [SIGIR 2008](#)
- [“Wikipedia and Artificial Intelligence: An Evolving Synergy”](#) at [AAAI 2008](#)

Senior program committee member

- International AAAI Conference on Weblogs and Social Media ([ICWSM 2010](#))

Poster chair

- ACM SIGKDD Conference on Knowledge Discovery and Data Mining ([KDD 2010](#))

Program committee member (conferences)

- International Conference on Computational Linguistics ([COLING 2010](#))

- ACM International Conference on Web Search and Data Mining ([WSDM 2010](#))
- Conference on Empirical Methods in Natural Language Processing ([EMNLP 2009](#), [EMNLP-CoNLL 2007](#))
- Annual Meeting of the Association for Computational Linguistics ([ACL 2010](#), [ACL-IJCNLP 2009](#), [ACL-HLT 2008](#), [COLING-ACL 2006](#))
- Annual International ACM SIGIR Conference (SIGIR [2010](#), [2009](#))
- International World Wide Web Conference (WWW [2010](#), [2009](#), [2008](#))
- Conference on Information and Knowledge Management (CIKM [2008](#))
- National Conference on Artificial Intelligence (AAAI [2008](#), [2007](#))
- Joint Conference on Digital Libraries (JCDL [2008](#))

Program committee member (workshops and symposia)

- [Workshop on Collaboratively-built Knowledge Sources and Artificial Intelligence \(WikiAI\)](#), 24th AAAI Conference on Artificial Intelligence ([AAAI 2010](#))
- [Graduate Students Symposium, Canadian AI 2010](#)
- [Collaborative Web Tagging Workshop](#), 15th International World Wide Web Conference ([WWW 2006](#))

Tutorial committee member

- IEEE/WIC/ACM International Conferences on Web Intelligence and Intelligent Agent Technology ([WI'09/IAT'09](#))

Conference reviewer

- National Conference on Artificial Intelligence (AAAI [2010](#), [2006](#), [2005](#))
- International Conference on Computational Linguistics ([Dialogue 2009](#)) (main computational linguistics conference in Russia)
- ACM Conference on Knowledge Discovery and Data Mining ([KDD 2008](#))
- ACM Conference on Information and Knowledge Management ([CIKM 2007](#))
- International World Wide Web Conference (WWW [2006](#), [2003](#))
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS [2004](#))

Grant reviewer

- Yahoo! Faculty Research Grant (2009)
- Yahoo! [Key Scientific Challenges Program](#) (2009) – served on the Advisory Committee for the [Search, Information Retrieval, and Data Mining](#) area
- [Internet Mathematics](#) grant program by [Yandex.Ru](#) (2007)

Mentor for conference paper submissions

- Annual International ACM SIGIR Conference (SIGIR [2009](#), [2007](#))

PATENTS

- 21 patent applications + 1 patent issued

PUBLICATIONS

Journals

- 1) **Evgeniy Gabrilovich** and Shaul Markovitch, “Wikipedia-based Semantic Interpretation for Natural Language Processing”, Journal of Artificial Intelligence Research, Vol. 34, pp. 443-498, 2009.
- 2) **Evgeniy Gabrilovich**, Andrei Broder, Marcus Fontoura, Amruta Joshi, Vanja Josifovski, Lance Riedel, and Tong Zhang, “Classifying Search Queries Using the Web as a Source of Knowledge”, ACM Transactions on the Web, 3(2):1-28, April 2009.
- 3) Eugene Agichtein, **Evgeniy Gabrilovich**, and Hongyuan Zha, “The Social Future of Web Search: Modeling, Exploiting, and Searching Collaboratively Generated Content”, IEEE Data Engineering Bulletin, Volume 32, Number 2, pages 52-61, June 2009.

- 4) **Evgeniy Gabrilovich** and Shaul Markovitch, “Harnessing the Expertise of 70,000 Human Editors: Knowledge-Based Feature Generation for Text Categorization”, *Journal of Machine Learning Research*, 8 (Oct), pp. 2297-2345, 2007
- 5) **Evgeniy Gabrilovich** and Alex Gontmakher, “The Homograph Attack”, *Communications of the ACM*, 45(2):128, February 2002.
- 6) Lev Finkelstein, **Evgeniy Gabrilovich**, Yossi Matias, Ehud Rivlin, Zach Solan, Gadi Wolfman, and Eytan Ruppin, “Placing Search in Context: The Concept Revisited”, *ACM Transactions on Information Systems*, 20(1):116-131, January 2002.

Conferences

- 7) Michael Bendersky, **Evgeniy Gabrilovich**, Vanja Josifovski, and Donald Metzler, “The Anatomy of an Ad: Structured Indexing and Retrieval for Sponsored Search”, 19th International World Wide Web Conference (WWW), Raleigh, NC, April 2010 (Acceptance rate 14%)
- 8) Cristian Danescu-Niculescu-Mizil, Andrei Broder, **Evgeniy Gabrilovich**, Vanja Josifovski, and Bo Pang, “Competing for Users' Attention: On the Interplay between Organic and Sponsored Search Results”, 19th International World Wide Web Conference (WWW), Raleigh, NC, April 2010 (Acceptance rate 14%)
- 9) Yejin Choi, Marcus Fontoura, **Evgeniy Gabrilovich**, Vanja Josifovski, Mauricio Mediano, and Bo Pang, “Using Landing Pages for Sponsored Search Ad Selection”, 19th International World Wide Web Conference (WWW), Raleigh, NC, April 2010 (Acceptance rate 14%)
- 10) Sharad Goel, Andrei Broder, **Evgeniy Gabrilovich**, and Bo Pang, “Anatomy of the Long Tail: Ordinary People with Extraordinary Tastes”, 3rd ACM International Conference on Web Search and Data Mining (WSDM), pp. 201-210, New York, NY, February 2010 (Acceptance rate 15.5%).
- 11) Ben Carterette, **Evgeniy Gabrilovich**, Vanja Josifovski, and Donald Metzler, “Measuring the Reusability of Test Collections”, 3rd ACM International Conference on Web Search and Data Mining (WSDM), pp. 231-240, New York, NY, February 2010 (Acceptance rate 15.5%).
- 12) Sujith Ravi, Andrei Broder, **Evgeniy Gabrilovich**, Vanja Josifovski, Sandeep Pandey, and Bo Pang, “Automatic Generation of Bid Phrases for Online Advertising”, 3rd ACM International Conference on Web Search and Data Mining (WSDM), pp. 341-350, New York, NY, February 2010 (Acceptance rate 15.5%).
- 13) Hila Becker, Andrei Broder, **Evgeniy Gabrilovich**, Vanja Josifovski, and Bo Pang, “What Happens after an Ad Click? Quantifying the Impact of Landing Pages in Web Advertising”, The 18th ACM Conference on Information and Knowledge Management (CIKM), pp. 57-66, November 2009 (Acceptance rate 14.5%).
- 14) Andrei Broder, Peter Ciccolo, **Evgeniy Gabrilovich**, Vanja Josifovski, Donald Metzler, Lance Riedel, and Jeffrey Yuan, “Online Expansion of Rare Queries for Sponsored Search”, 18th International World Wide Web Conference (WWW), pp. 511-520, Madrid, Spain, April 2009 (Acceptance rate 12%).
- 15) Xuerui Wang, Andrei Broder, **Evgeniy Gabrilovich**, Vanja Josifovski, and Bo Pang, “Robust Cross-Language Query Classification with External Web Evidence”, 2nd ACM International Conference on Web Search and Data Mining (WSDM), pp. 74-83, Barcelona, Spain, February 2009 (Acceptance rate 17%).
- 16) Andrei Broder, Massimiliano Ciaramita, Marcus Fontoura, **Evgeniy Gabrilovich**, Vanja Josifovski, Donald Metzler, Vanessa Murdock, and Vassilis Plachouras, “To Swing or not to Swing: Learning when (not) to Advertise”, The 17th Conference on Information and Knowledge Management, pp. 1003-1012, Napa, California, November 2008 (Acceptance rate 17%).
- 17) Andrei Broder, Peter Ciccolo, Marcus Fontoura, **Evgeniy Gabrilovich**, Vanja Josifovski, and Lance Riedel, “Search Advertising using Web Relevance Feedback”, The 17th Conference on Information and Knowledge Management, pp. 1013-1022, Napa, California, November 2008 (Acceptance rate 17%).
- 18) Filip Radlinski, Andrei Broder, Peter Ciccolo, **Evgeniy Gabrilovich**, Vanja Josifovski, and Lance Riedel, “Learning Query Substitutions for Search Advertising”, The 31st Annual Int'l ACM SIGIR Conference, pp. 403-410, Singapore, July 2008 (Acceptance rate 17%)
- 19) Ofer Egozi, **Evgeniy Gabrilovich**, and Shaul Markovitch, “Concept-Based Feature Generation and Selection for Information Retrieval”, The 23rd AAAI Conference on Artificial Intelligence, pp. 1132-1137, Chicago, IL, July 2008 (Acceptance rate 24%).
- 20) Aris Anagnostopoulos, Andrei Broder, **Evgeniy Gabrilovich**, Vanja Josifovski, Lance Riedel, “Just-in-time contextual Advertising”, The 16th Conference on Information and Knowledge Management, pp. 331-340, Lisbon, Portugal, November 2007 (Acceptance rate 17%).
- 21) Andrei Broder, Marcus Fontoura, **Evgeniy Gabrilovich**, Amruta Joshi, Vanja Josifovski, and Tong Zhang, “Robust Classification of Rare Queries Using Web Knowledge”, The 30th Annual International ACM SIGIR Conference, pp. 231-238, Amsterdam, The Netherlands, July 2007 (Acceptance rate 17.5%).

- 22) **Evgeniy Gabrilovich** and Shaul Markovitch, “Computing Semantic Relatedness using Wikipedia-based Explicit Semantic Analysis”, The 20th International Joint Conference on Artificial Intelligence (IJCAI), pp. 1606-1611, Hyderabad, India, January 2007 (Acceptance rate 16%).
- 23) **Evgeniy Gabrilovich** and Shaul Markovitch, “Overcoming the Brittleness Bottleneck using Wikipedia: Enhancing Text Categorization with Encyclopedic Knowledge”, The 21st National Conference on Artificial Intelligence (AAAI), pp. 1301-1306, Boston, July 2006 (Acceptance rate 22%).
- 24) **Evgeniy Gabrilovich** and Shaul Markovitch, “Feature Generation for Text Categorization Using World Knowledge”, The 19th International Joint Conference on Artificial Intelligence (IJCAI), pp. 1048-1053, Edinburgh, UK, August 2005 (Acceptance rate 18%).
- 25) Dmitry Davidov, **Evgeniy Gabrilovich**, and Shaul Markovitch, “Parameterized Generation of Labeled Datasets for Text Categorization Based on a Hierarchical Directory”, The 27th Annual Int’l ACM SIGIR Conference, pp. 250-257, Sheffield, UK, July 2004 (Acceptance rate 21%).
- 26) **Evgeniy Gabrilovich** and Shaul Markovitch, “Text Categorization with Many Redundant Features: Using Aggressive Feature Selection to Make SVMs Competitive with C4.5”, The 21st Int’l Conference on Machine Learning (ICML), pp. 321-328, Banff, Canada, July 2004 (Acceptance rate 32%).
- 27) **Evgeniy Gabrilovich**, Susan Dumais, and Eric Horvitz, “NewsJunkie: Providing Personalized Newsfeeds via Analysis of Information Novelty”, The 13th Int’l World Wide Web Conference (WWW2004), pp. 482-490, New York, May 2004 (Acceptance rate 15%).
- 28) Lev Finkelstein, **Evgeniy Gabrilovich**, Yossi Matias, Ehud Rivlin, Zach Solan, Gadi Wolfman, and Eytan Ruppin, “Placing Search in Context: The Concept Revisited”, The 10th Int’l World Wide Web Conference (WWW10), pp. 406-414, Hong Kong, May 2001 (Acceptance rate: 20%).

Book chapters

- 29) Shuly Wintner, **Evgeniy Gabrilovich**, and Nissim Francez, “AMALIA – A Unified Platform for Parsing and Generation”, Nicolas Nikolov and Ruslan Mitkov (eds.), Recent Advances in Natural Language Processing II, Current Issues in Linguistic Theory, Vol. 189, pp. 257-270, John Benjamins, 2000. Selected papers from RANLP’97, Tzigrav Chark, Bulgaria, September 1997.

Edited volumes

- 30) Mikhail Bilenko, **Evgeniy Gabrilovich**, Matthew Richardson, and Yi Zhang (editors), Proceedings of the SIGIR Workshop on Information Retrieval and Advertising”, July 2009.
- 31) Razvan Bunescu, **Evgeniy Gabrilovich**, Rada Mihalcea, and Vivi Nastase (editors), Proceedings of the IJCAI Workshop on User-Contributed Knowledge and Artificial Intelligence: An Evolving Synergy (WikiAI), July 2009.
- 32) Eugene Agichtein, Ewa Dominowska, **Evgeniy Gabrilovich**, and James Shanahan (editors), Proceedings of the SIGIR Workshop on Information Retrieval in Advertising”, July 2008.
- 33) Razvan Bunescu, **Evgeniy Gabrilovich**, and Rada Mihalcea (editors), Proceedings of the AAAI Workshop on Wikipedia and Artificial Intelligence: An Evolving Synergy (WikiAI), July 2008.

Magazines

- 34) Mikhail Bilenko, **Evgeniy Gabrilovich**, Matthew Richardson, and Yi Zhang, “Information Retrieval and Advertising” (workshop report), SIGIR Forum, Vol 43, Number 2, pp. 29-33, December 2009.
- 35) Razvan Bunescu, **Evgeniy Gabrilovich** and Rada Mihalcea, “Wikipedia and Artificial Intelligence: An Evolving Synergy” (workshop report), AI Magazine, Vol 30, Number 1, 2009.
- 36) **Evgeniy Gabrilovich** and Alex Gontmakher, “Human-Targeted Denial of Service”, BYTE.com, June 30, 2003.
- 37) **Evgeniy Gabrilovich** and Alex Gontmakher, “Heap Ltd.”, Dr. Dobb’s Journal, 28(6):54-57, June 2003.
- 38) **Evgeniy Gabrilovich** and Alex Gontmakher, “When Robots Attack”, BYTE.com, April 21, 2003.
- 39) Gregory Begelman, Lev Finkelstein, and **Evgeniy Gabrilovich**, “C++ Set-Theoretic Operations on Virtual Containers”, Dr. Dobb’s Journal, 26(10):40-48, October 2001.
- 40) **Evgeniy Gabrilovich** and Lev Finkelstein, “JNI – C++ integration made easy”, C/C++ Users Journal, 19(1):10-21, January 2001.
- 41) **Evgeniy Gabrilovich**, “Destruction-Managed Singleton: A Compound Pattern for Reliable Deallocation of Singletons” C++ Report, 12(3):35-40, March 2000.

- 42) **Evgeniy Gabrilovich**, “Controlling the Destruction Order of Singleton Objects”, *C/C++ Users Journal*, 17(10):57-61, October 1999.

Workshops, posters, short papers etc.

- 43) Deepak Agarwal, **Evgeniy Gabrilovich**, Rob Hall, Vanja Josifovski, and Rajiv Khanna, “Translating Relevance Scores to Probabilities for Contextual Advertising”, The 18th ACM Conference on Information and Knowledge Management (CIKM), pp. 1899-1902, November 2009 (Acceptance rate 20.2%).
- 44) Hila Becker, Andrei Broder, **Evgeniy Gabrilovich**, Vanja Josifovski, and Bo Pang, “Context Transfer in Search Advertising”, The 32nd Annual International ACM SIGIR Conference, pp. 656-657, July 2009.
- 45) William Chang, Patrick Pantel, Ana-Maria Popescu, and **Evgeniy Gabrilovich**, “Towards Intent-Driven Bidterm Suggestion”, 18th International World Wide Web Conference (WWW), pp. 1093-1094, Madrid, Spain, April 2009.
- 46) Xuerui Wang, Andrei Broder, **Evgeniy Gabrilovich**, Vanja Josifovski, and Bo Pang, “Cross-Lingual Query Classification: a Preliminary Study”, 2nd International ACM Workshop on Improving Non-English Web Searching (iNEWS08; in conjunction with the 17th Conference on Information and Knowledge Management), pp. 101-104, Napa, California, November 2008.
- 47) Andrei Broder, Peter Ciccolo, **Evgeniy Gabrilovich**, and Bo Pang, “Domain-Specific Query Augmentation using Folksonomy Tags: the Case of Contextual Advertising”, 1st Workshop on Information Retrieval for Advertising (in conjunction with the 31st Annual Int’l ACM SIGIR Conference), pp. 23-26, Singapore, July 2008.
- 48) **Evgeniy Gabrilovich**, Nissim Francez, and Shuly Wintner, “Natural Language Generation with Abstract Machine”, The 9th Int’l Workshop on Natural Language Generation, pp. 276-279, Niagara-on-the-Lake, Ontario, Canada, August 1998.

Theses

- 49) **Evgeniy Gabrilovich**
“Feature Generation for Textual Information Retrieval Using World Knowledge”, *Ph.D. Thesis*, Computer Science Department, Technion, Haifa, Israel, December 2006. 180 pages.
- 50) **Evgeniy Gabrilovich**
“Natural Language Generation by Abstract Machine for Typed Feature Structures”, *M.Sc. Thesis*, Computer Science Department, Technion, Haifa, Israel, June 1998. 104 pages.

Technical reports

- 51) **Evgeniy Gabrilovich** and Shaul Markovitch, “Computing Semantic Relatedness of Words and Texts in Wikipedia-derived Semantic Space”, *Technical Report CIS-2006-04*, Computer Science Department, Technion, Haifa, Israel, July 2006.
- 52) Shuly Wintner, **Evgeniy Gabrilovich** and Nissim Francez, “AMALIA – A Uniform Platform for Parsing and Generation”, *Technical Report LCL9703*, Laboratory for Computational Linguistics, Computer Science Department, Technion, Haifa, Israel, August 1997.
- 53) **Evgeniy Gabrilovich** and Alberto Berstein, “Using a Vector Quantization Approach for Robust Text-Independent Speaker Identification”, *Technical Report DSPG-95-9-001*, DSP Group Inc., Santa Clara, CA, USA, September 1995.

TALKS AND PRESENTATIONS

- “Algorithmic Approaches to Computational Advertising”
 - **Invited talk** in the [Information Retrieval course \(ISM260\)](#), University of California, Santa Cruz, November 23, 2009
- “Social Web as a Source of World Knowledge”
 - **Invited keynote speech** at the [Workshop on Social Web Search and Mining \(SWSM 2009\)](#), held in conjunction with the 18th ACM Conference on Information and Knowledge Management (CIKM), Hong Kong, China, November 2, 2009
- “The evolution of computational advertising: from heuristic ad matching to knowledge-based ad retrieval”
 - [Computer Science Department, Rutgers University, February 3, 2010](#)

- Computer Science and Engineering Department, Polytechnic Institute of New York University (NYU-Poly), February 2, 2010
 - [Department of Computer Science and Engineering, Hong Kong University of Science and Technology \(HKUST\), November 9, 2009](#)
 - [Computer Science Department, University of Wisconsin – Madison, October 1, 2009](#)
 - [CS Department Colloquium, University of Illinois at Urbana-Champaign, September 29, 2009](#)
- “AI in Web advertising: picking the right ad ten thousand times a second”
 - **Invited keynote speech** at [Canadian AI 2009](#), Kelowna, BC, Canada, May 26, 2009
- “Algorithmic Aspects of Computational Advertising”
 - HP Labs, Palo Alto, CA, USA, January 28, 2009
 - Microsoft Research, Redmond, WA, USA, November 5, 2008
 - Computer Science and Engineering Colloquium, University of Washington, Seattle, WA, USA, November 4, 2008
 - Google, Zurich, Switzerland, October 2, 2008
 - Yahoo Research, Haifa, Israel, September 23, 2008
 - Google, Haifa, Israel, September 23, 2008
- “An Overview of Computational Advertising”
 - [National University of Singapore, July 25, 2008](#)
- “Towards Better Contextual Advertising”
 - [Pompeu Fabra University, Barcelona, Spain, November 13, 2007](#)
- “Computing Semantic Relatedness using Wikipedia-based Explicit Semantic Analysis”
 - Yahoo Research, Santa Clara, CA, USA, February 2, 2007
- “Feature Generation for Textual Information Retrieval using World Knowledge”
 - NLP & ML groups meeting, Computer Science Department, Bar Ilan University, Ramat Gan, Israel, November 30, 2006
 - Computer Science Seminar, Tel Aviv University, Tel Aviv, Israel, November 23, 2006
 - Research Seminar, IBM Haifa Research Laboratory, Haifa, Israel, September 20, 2006
 - Computer Science Seminar, Technion – Israel Institute of Technology, Haifa, Israel, September 17, 2006
- “Enhancing Text Representation Through Knowledge-Based Feature Generation”
 - Yahoo Research, Santa Clara, CA, USA, June 20, 2006
 - [Microsoft Research, Redmond, WA, USA, June 15, 2006](#)
- “Feature Generation for Text Categorization using World Knowledge”
 - Graduate course in Natural Language Processing (guest lecture), Tel Aviv University, Tel Aviv, Israel, January 27, 2006
 - Relevance Brown Bag, Yahoo! Inc., Sunnyvale, CA, USA, July 27, 2005
- “Feature Generation for Text Categorization using Hierarchical Web Knowledge Bases”
 - Israeli Seminar on Computational Linguistics, Bar Ilan University, Ramat Gan, Israel, December 27, 2004
- “Parameterized Generation of Labeled Datasets for Text Categorization”
 - Search and Collaboration Seminar, IBM Research Laboratory, Haifa, Israel, February 16, 2004
- “NewsJunkie: In Pursuit of Personalized News Based on Information Novelty”
 - Microsoft Research, Redmond, WA, USA, September 25, 2003
- “Placing Search in Context: The Concept Revisited”
 - German-Israeli Minerva School in Computational Linguistics, Tuebingen, Germany, October 4, 2001
 - Israeli Seminar on Computational Linguistics, Haifa University, Haifa, Israel, February 15, 2001
- “Singleton Pattern Revisited”
 - Comverse Technology Inc., Tel Aviv, Israel, August 15, 1999
- “Inversion of Unification Grammars for Generation”
 - Israeli Computational Linguistics Seminar, Hebrew University, Jerusalem, Israel, June 16, 1996