Graeme Hirst

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Education

1979–83: Department of Computer Science, Brown University, Providence, Rhode Island.

• PhD degree; Thesis: Semantic interpretation against ambiguity. (Supervisor: Eugene Charniak.)

1975–79: Department of Engineering Physics, Research School of Physical Sciences, Australian National University, Canberra, A.C.T., Australia *and* Department of Computer Science, University of British Columbia, Vancouver, B.C., Canada.

• MSc degree (ANU); Thesis: *Anaphora in natural language understanding*. Thesis written partly at ANU (supervisors: Stephen Kaneff and Iain Macleod) and partly at UBC (supervisor: Richard Rosenberg).

1970–73: Monash University, Clayton, Victoria, Australia.

• Majors in Information Science and Pure Mathematics; minor in Psychology. BSc degree with First-Class Honours in Information Science, 1974. BA degree, 1973.

Other qualifications

2007 University of Toronto, Certificate of Continuing Studies in Dispute Resolution. [7-course sequence, 196 hours.]

Employment

1984–2022: University of Toronto: Department of Computer Science; also (from January 1986) University of Toronto, Scarborough: Department of Computer and Mathematical Sciences (formerly, Division of Mathematical Sciences; formerly, Division of Physical Sciences).

• Professor Emeritus (2020–); Professor (1995–2020); Associate Professor [with tenure] (1990– 95); Assistant Professor (1984–90). Member, School of Graduate Studies (from November 1987).

- Faculty affiliate, Schwartz Reisman Institute for Technology and Society (2023–).
- Associate Chair, Graduate Studies, 2019–2022.

• Gastprofessor, Universität Mannheim, Fakultät für Wirtschafts-informatik und -mathematik (Data and Web Science Group), and Gastwissenschaftler, Universität Heidelberg, Institut für Computerlinguistik, March 2019.

• Faculty affiliate (2018–20), Vector Institute.

• Visiting Professor (2005–06), University of Colorado at Boulder, Center for Spoken Language Research.

- Adjunct Professor (1995–98), University of Waterloo, Department of Computer Science.
- Visiting Professor (1990–91), University of Rochester, Department of Computer Science.

Awards and honours

Distinguished Service Award, Association for Computational Linguistics, 2020.

Fellow of the Association for Computational Linguistics, 2019.

Lifetime Achievement Award, Canadian Artificial Intelligence Association, 2017.

Distinguished Service Award and Fellow, Canadian Society for Computational Studies of Intelligence [now the Canadian Artificial Intelligence Association], 2008.

Awards for excellence in teaching, Computer Science Students' Union, University of Toronto, September 1988 and October 1994.

Publisher's Prize, Best paper by student or recent student, National Conference on Artificial Intelligence (AAAI-84), Austin, Texas, August 1984.

Research interests

Computational linguistics; natural language processing; machine translation; knowledge representation; cognitive science; computer models of language and cognition; semantics; lexical semantics; pragmatics; linguistic style; artificial intelligence; applications of computational linguistics and natural language processing in writing, in health and medicine, and in the humanities.

Research grants and contracts

Ontario Institute for Cancer Research and Cancer Care Ontario Health Services Research Network, 2019–2021, "Building an artificial intelligent system to enhance online support groups in cancer." \$299,923 [Principal investigators: Yvonne Leung and Mary Jane Epstein; co-investigators: Graeme Hirst and 10 others].

Social Sciences and Humanities Research Council of Canada, Insight Grant, 2018–2022, "Text as image, image as text: charter integrity and topic modelling". \$286,050 [Principal investigator: Michael Gervers; co-investigator: Graeme Hirst.]

Connaught Fund, Global Challenge Award, 2017–2019, "Innovations to close the global mortality divide". \$250,000 [Lead applicant: Prabhat Jha; Co-applicants: Marie-Josée Fortin, Graeme Hirst, Anita McGahan, John McLaughlin, Erica di Ruggiero.]

Canadian Institutes of Health Research, Collaborative Health Research Projects grant, 2017–2019, "Automatic remote screening of speech features associated with Alzheimer's disease", \$437,664 [Lead applicant: Frank Rudzicz; Principal applicants: Graeme Hirst, Regina Jokel; Co-applicants: Carmela Tartaglia, Khai Truong; Knowledge users: Sandra Black, Sheila Dunn, Alex Mihailidis.]

Canadian Cancer Society, 2017–2019, "Can online physician ratings be used to provide meaningful and actionable patient feedback? A mixed methods feasibility study", \$188,895 [Primary applicant: Jill Tinmouth, Sunnybrook Research Institute; other co-applicants: Nancy Baxter, Caroline Bravo, Caitlin Crystoja, Graeme Hirst, Diego Llovet, David Urbach.]

Google, Faculty Research Award, 2016–2017, "Natural language processing to determine causes of death in developing countries", US\$41,500 [in collaboration with Prabhat Jha, Centre for Global Health Research].

Riksbankens Jubileumsfond (Sweden), 2016-01-01 to 2019-12-31, "Språkliga och extra-lingvistiska parametrar för tidig upptäckt av kognitiv svikt [Linguistic and extra-linguistic parameters for early detection of cognitive impairment]", SEK 10,460,000 (approx \$1,660,000). [Primary applicant: Dimitrios Kokkinakis, University of Gothenburg; other co-applicants: Simon Dobnik, Christos Koniaris, Arto Nordlund (University of Gothenburg).]

NSERC, Engage grant, 2015-03-01 to 2015-08-31, "Automatically categorizing forum posts", \$24,904.

Vetenskapsrådet (Swedish Research Council), 2015-01-01 to 2018-12-31, "The advantage of country comparisons — Towards a new method for estimating language effects in cross-cultural surveys", SEK 9,200,000 (approx \$1,400,000). [Primary applicant: Stefan Dahlberg, University of Gothenburg; other co-applicants: Sören Holmberg (University of Gothenburg), Magnus Sahlgren (Gavagai AB, Stockholm), Jonas Linde (University of Bergen).]

NSERC Discovery Grant, 2014–2020, "Applied computational models of discourse, argument, and text", $$54,000 \text{ p.a.} \times 6 \text{ years.}$

NSERC, Discovery Frontiers — Digging Into Data, 2014–2015, "Digging into linked parliamentary data", \$39,250 + \$41,000. A component of a multi-agency multinational award totalling approximately \$580,000 to 6 PIs.

U.S. DARPA, 2012–2013, "Explorations on semantic equivalence", US\$220,058.

NSERC, Research Tools and Instruments Grant, 2010, "Massively parallel computing in natural language technology", \$140,843 [co-applicant with Gerald Penn and Suzanne Stevenson].

Google Research Award, 2009, "Natural language processing methods for the early detection of Alzheimer's disease in patients' on-line writing", US\$36,000 [with Ian Lancashire and Regina Jokel].

NSERC, Discovery Grant, 2009–2014, "Nuances of meaning, paraphrase, and argument identification in applications of natural language processing", \$50,000 p.a. × 5 years.

NSERC, Collaborative Research and Development Grant, 2008–09, 2009–10, "Towards articulatorybased adaptation in recognition of dysarthric speech", \$47,713 + 129,820 = 177,533 [with Fraser Shein, Gerald Penn, Pascal van Lieshout, and Willy Wong, co-applicants].

Bell University Laboratories, 2007–2008, "Towards articulatory-based adaptation in recognition of dysarthric speech", \$75,000 [with Fraser Shein, Gerald Penn, and Pascal van Lieshout, co-applicants].

NSERC, Research Tools and Instruments Grant, 2005, "Compute server for research in computational linguistics and natural language Processing", \$73,011 [with Suzanne Stevenson and Gerald Penn, co-applicants].

NSERC, Discovery Grant, 2004–2009, "Paraphrase and semantic distance in applications of natural language processing", $$59,000 \text{ p.a.} \times 5 \text{ years.}$

SSHRC, Major Collaborative Research Initiative, 2002–2006, "International Research on Permanent Authentic Records in Electronic Systems 2: Experiential, Interactive, and Dynamic Records", \$2,499,400. [P.I., Luciana Duranti, UBC; 24 co-investigators.]

Bell University Laboratories, 2001–2003, \$199,640 p.a. × 2 years [P.I., John Mylopoulos; 5 other co-investigators]; renewed 2003–04, \$215,000.

Bell University Laboratories, 2001–2003, \$114,582 [P.I., monica schraefel].

Bell University Laboratories, 2000–2001, \$86,250 [P.I., monica schraefel].

NSERC, Discovery Grant, 2000–2004, "The determination of nuances of meaning and style and of semantic distance for applications of computational linguistics", $$54,000 \text{ p.a.} \times 4 \text{ years}$.

CITO, "Applications of computational linguistics to communication aids for people with disabilities", 2000–2002, \$100,500 [co-investigator, Fraser Shein].

Bell Canada University Laboratories, 1999–2000, \$55,200.

Bell Canada University Laboratories [with Robert Wright, P.I., Jutta Treviranus, and Mark Chignell], 1999–2000, \$50,000.

CITO, "Computational measures of semantic distance and the intelligent disambiguation, summarization, filtering, linking, indexing, retrieval, and searching of documents and text", 1998– 2000, \$100,000, *declined*.

NSERC, research grant, "Representation and use of nuances of meaning and style in applications of computational linguistics", 1996–2000, \$46,500 + 46,500 + 51,150 + 53,708.

Technology Ontario [with Chrysanne DiMarco, P.I.], 1995–98, \$666,667.

NSERC, research grant, "Natural language understanding: Representation and repair", 1992–96, 35,000 p.a. $\times 4$ years.

NSERC, strategic grant [with Ronald Baecker, Marilyn Mantei, and Marlene Scardamalia], 1992–95, \$120,000 p.a. × 3 years.

ITRC [with Chrysanne DiMarco], 1991–93, \$90,000

NSERC, operating grant, 1989–92: 30,590 p.a. \times 3 years.

ITRC [with Stephen Regoczei, through John Mylopoulos, P.I.] 1989-91, \$21,000.

Visiting fellowship, April 1988, £2509 from SERC, for three-month visit to the Department of Artificial Intelligence, University of Edinburgh.

NSERC, operating grant, 1986–89: 23,732 p.a. \times 3 years.

NSERC, operating grant, 1985–86: \$24,773.

IBM Canada Ltd, contract, 1985-86: \$30,300.

NSERC, strategic grant and strategic equipment grant [with John Mylopoulos, John Tsotsos, and Hector Levesque], 1984–87, \$1,495,000.

NSERC, operating grant, 1984–85: \$15,030.

Connaught Fund, University of Toronto, 1984: \$24,000.

Patents

———; Jokel, Regina; Lancashire, Ian; and Le, Xuan. Method and system of longitudinal detection of dementia though lexical and syntactic changes in writing. U.S. patent US 9514281 B2, 6 December 2016; Canadian patent CA2776140C, 19 June 2018.

Publications

Refereed papers

Vishnubhotla, Krishnapriya; Hammond, Adam; ——; and Mohammad, Saif M. "The emotion dynamics of literary novels." *Findings of the Association for Computational Linguistics: ACL-*2024, August 2024, ???–???.

Vishnubhotla, Krishnapriya; Rudzicz, Frank; ——; and Hammond, Adam. "Improving automatic quotation attribution in literary novels." *Proceedings*, 61st Annual Meeting of the Association for Computational Linguistics, Volume 2: Short Papers, Toronto, July 2023, 737–746.

Leung, Yvonne; Ng, Steve, Duan, Lauren; Lam, Claire; Chan, Kenith; Gancarz, Mathew; Rennie, Heather; Tratchenberg, Lianne; Chan, Kai P., Adikari, Achini; Fang, Lin; Gratzer, David; ———; Wong, Jiahui; and Esplen, Mary Jane. "Therapist feedback and implications on adoption of an artificial intelligence--based co-facilitator for online cancer support groups: Mixed methods single-arm usability study." *JMIR Cancer*, 2023;9:e40113.

Hammond, Adam; Vishnubhotla, Krishnapriya; Mohammad, Saif M.; ———. "Voices speaking to and about one another: Introducing the Project Dialogism Novel Corpus." *Book of Abstracts, Digital Humanities Conference* 2022, 220–223.

Leung, Yvonne W; Park, Bomi; Heo, Rachel; Adikari, Achini; Chackochan, Suja; Wong, Jiahui; Alie, Elyse; Gancarz, Mathew; Kacala, Martyna; ——; de Silva, Daswin; French, Leon; Bender, Jacqueline; Mishna, Faye; Gratzer, David; Alahakoon, Damminda; Esplen, Mary Jane. "Providing care beyond therapy sessions with a natural language processing–based recommender system that identifies cancer patients who experience psychosocial challenges and provides self-care support: Pilot study", *JMIR Cancer*, 8(3), 29 July 2022, e35893.

Vishnubhotla, Krishnapriya; Hammond, Adam; and ———. "The Project Dialogism Novel Corpus: A dataset for quotation attribution in literary texts." *Proceedings*, 13th Conference on Language Resources and Evaluation, Marseille, June 2022, 5838–5848.

Vishnubhotla, Krishnapriya; ——; and Rudzicz, Frank. "An evaluation of disentangled representation learning for texts." *Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021*, August 2021, 1939–1951.

Leung, Yvonne; Wouterloot, Elise; Adikari, Achini; ——; de Silva, Daswin; Wong, Jiahui; Bender, Jacqueline; Gancarz, Mathew; Gratzer, David; Alahakoon, Damminda; Esplen, Mary Jane. "Natural language processing–based virtual cofacilitator for online cancer support groups: Protocol for an algorithm development and validation study." *JMIR Research Protocols*, 10(1), January 2021, e21453.

Hulpuş, Ioana; Kobbe, Jonathan; Stuckenschmidt, Heiner; and ———. "Knowledge graphs meet moral values." *Proceedings, 9th Joint Conference on Lexical and Computational Semantics* (**SEM*-2020), December 2020, 71–80.

Paul, Debjit; Optiz, Juri; Becker, Maria; Kobbe, Jonathan; ——; and Frank, Anette. "Argumentative relation classification with background knowledge." In: Prakken, Henry; Bistarelli, Stefano; Santini, Francesco; and Taticchi, Carlo (editors), *Computational Models of Argument; Proceedings of COMMA-2020*, IOP Press (Frontiers in Artificial Intelligence and Applications, volume 326), September 2020, 319–330.

Abdalla, Mohamed; Abdalla, Moustafa; ——; and Rudzicz, Frank. "Exploring the privacy-preserving properties of word embeddings: Algorithmic validation." *Journal of Medical Internet*

Research, 22(7), July 2020, e18055.

Abdalla, Mohamed; Abdalla, Moustafa; Rudzicz, Frank; and ———. "Using word embeddings to improve the privacy of clinical notes." *Journal of the American Medical Informatics Association*, 27(6), 2020, 901–907.

Xie, Jing Yi; Pinto, Renato Ferreira Jr; ——; and Xu, Yang. "Text-based inference of moral sentiment change." *Proceedings, Conference on Empirical Methods in Natural Language Processing,* Hong Kong, November 2019, 4653–4662.

Hulpuş, Ioana; Kobbe, Jonathan; Becker, Maria; Opitz, Juri; ——; Meilicke, Christian; Nastase, Vivi; Stuckenschmidt, Heiner; and Frank, Anette. "Towards explaining natural language arguments with background knowledge." *Joint Proceedings of the 6th International Workshop on Dataset Profiling and Search and the 1st Workshop on Semantic Explainability*, Auckland, 27 October 2019, 62–77. [*CEUR Workshop Proceedings, volume* 2465.]

Yan, Zhaodong; Jeblee, Serena; ———. "Can character embeddings improve cause-of-death classification for verbal autopsy narratives?" *Proceedings, BioNLP Workshop*, Florence, August 2019, 234–239.

Ethayarajh, Kawin; Duvenaud, David; and ———. "Understanding undesirable word embedding associations." *Proceedings*, 57th Annual Meeting of the Association for Computational Linguistics, Florence, July 2019, 1696–1705.

Ethayarajh, Kawin; Duvenaud, David; and ———. "Towards understanding linear word analogies." *Proceedings*, 57th Annual Meeting of the Association for Computational Linguistics, Florence, July 2019, 3253–3262.

Jeblee, Serena; Gomes, Mireille; Jha, Prabhat; Rudzicz, Frank; and ———. "Automatically determining cause of death from verbal autopsy narratives." *BMC Medical Informatics and Decision Making*, 2019:127, 9 July 2019.

Vishnubhotla, Krishnapriya; Hammond, Adam; and ———. "Are fictional voices distinguishable? Classifying character voices in modern drama." *Proceedings, 3rd Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature*, Minneapolis, June 2019, 29–34.

Abdalla, Mohamed; Sahlgren, Magnus; and ———. "Enriching word embeddings with a regressor instead of labeled corpora." *Proceedings*, 33rd AAAI Conference on Artificial Intelligence (AAAI-19), Honolulu, January 2019, 6188–6195.

Jeblee, Serena and ———. "Listwise temporal ordering of events in clinical notes." *Proceedings, LOUHI 2018: The Ninth International Workshop on Health Text Mining and Information Analysis,* Brussels, October 2018, 177–182.

Naderi, Nona and ———. "Using context to identify the language of face-saving." *Proceedings*, 5th Workshop on Argument Mining, Brussels, November 2018, 111–120.

Naderi, Nona and ———. "Automated fact-checking of claims in argumentative parliamentary debates." *Proceedings of the First Workshop on Fact Extraction and Verification (FEVER)*, Brussels, November 2018, 60–65.

Jeblee, Serena; Budhkar, Akshay; Milić, Saša; Pinto, Jeff; Pou-Prom, Chloé, Vishnubhotla, Krishnapriya; ———; and Rudzicz, Frank. "Toronto CL at the CLEF 2018 eHealth Challenge Task 1". *CLEF 2018 Evaluation Labs and Workshop: Online Working Notes*, CEUR-WS, September 2018.

Jeblee, Serena; Gomes, Mireille; and ——. "Multi-task learning for interpretable cause-of-

death classification using key phrase prediction." *Proceedings, BioNLP 2018, Melbourne, July 2018, 12–17.*

Marinho, Vanessa Q.; ———; and Amancio, Diego R. "Labelled network motifs reveal stylistic subtleties in written texts." *Journal of Complex Networks*, 6(4), 1 August 2018, 620–638 [published online 10 October 2017].

Tricco, Andrea; Zarin, Wasifa; Lillie, Erin; Jeblee, Serena; Warren, Rachel; Khan, Paul A.; Robson, Reid, Pham, Ba'; ———; Straus, Sharon E. "Utility of social media and crowd-intelligence data for pharmacovigilance: A scoping review." *BMC Medical Informatics and Decision Making*, 18:38, 14 June 2018.

Naderi, Nona and ———. "Automatically labeled data generation for classification of reputation defence startegies." In: Fišer, Darja; Eskevich, Maria; and de Jong, Franciska (eds). *Proceedings of LREC2018 Workshop ParlaCLARIN: Creating and Using Parliamentary Corpora*, Miyazaki, Japan, May 2018, 48–54.

Abdalla, Mohamed; Rudzicz, Frank; and ———. "Rhetorical structure and Alzheimer's disease." *Aphasiology*, 32(1), 2018, 41–60.

Abdalla, Mohamed and ———. "Cross-lingual sentiment analysis without (good) translation." *Proceedings*, 8th International Joint Conference on Natural Language Processing (IJCNLP 2017), Taipei, December 2017, 506–515.

Naderi, Nona and ———. "Recognizing reputation defence strategies in critical political exchanges." *Proceedings, 11th Conference on Recent Advances in Natural Language Processing*, Varna, September 2017, 527–535.

Naderi, Nona and ———. "Classifying frames at the sentence level in news." *Proceedings, 11th Conference on Recent Advances in Natural Language Processing*, Varna, September 2017, 536–542.

Wachsmuth, Henning; Naderi, Nona; Habernal, Ivan; Hou, Yufang; ——; Gurevych, Iryna; and Stein, Benno. "Argumentation quality assessment: Theory vs. practice." *Proceedings*, 55th *Annual Meeting of the Association for Computational Linguistics*, Vancouver, August 2017, volume 2, 250–255.

Wachsmuth, Henning; Naderi, Nona; Hou, Yufang; Bilu, Yonatan; Prabhakaran, Vinod; Alberdingk Thijm, Timothy; ——; and Stein, Benno. "Computational argumentation quality assessment in natural language." *Proceedings*, 15th Conference of the European Chapter of the Association for Computational Linguistics, Valencia, April 2017, 176–187.

Beelen, Kaspar; Alberdingk Thijm, Timothy; Cochrane, Christopher; Halvemaan, Kees; —— —; Kimmins, Michael; Lijbrink, Sander; Marx, Maarten; Naderi, Nona; Rheault, Ludovic; Polyanovsky, Roman; Whyte, Tanya. "Digitization of the Canadian parliamentary debates". *Canadian Journal of Political Science*, 50(3), September 2017, 849–864 [published online, 2017-01-18].

Naderi, Nona and ———. "Argumentation mining in parliamentary discourse." In: Baldoni, Matteo; Baroglio, Cristina; Bex, Floris; Grasso, Floriana; Green, Nancy; Namazi-Rad, Mohammad-Reza; Numao, Masayuki; Suarez, Merlin Teodosia (editors), *Principles and Practice of Multi-Agent Systems*, Lecture Notes in Computer Science, volume 9935, 2016, 16–25.

Rheault, Ludovic; Beelen, Kaspar; Cochrane, Christopher; and ——. "Measuring emotion in parliamentary debates with automated textual analysis." *PLoS ONE*, 2016, 11(12): e0168843.

Marinho, Vanessa Queiroz; Amancio, Diego Raphael; and ——. "Authorship attribution

via network motifs identification". *Proceedings, 5th Brazilian Conference on Intelligent Systems* (*BRACIS*), Recife, Brazil, October 2016, 355–360.

Fraser, Kathleen C.; Rudzicz, Frank; and ———. "Detecting late-life depression in Alzheimer's disease through analysis of speech and language." *Proceedings, 3rd Workshop on Computational Linguistics and Clinical Psychology*, San Diego, June 2016, 1–11.

Perumal, Krish and ———. "Semi-supervised and unsupervised categorization of posts in Web discussion forums using part-of-speech information and minimal features." *Proceedings, 7th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis,* San Diego, June 2016, 100–108.

Fraser, Kathleen C. and ———. "Detecting semantic changes in Alzheimer's disease with vector space models." *Proceedings, Workshop on Resources and Processing of Linguistic and Extra-Linguistic Data from People with Various Forms of Cognitive/Psychiatric Impairments* (Linköping Electronic Conference Proceedings vol. 128), Portorož, May 2016, 1–8.

Brooke, Julian; Hammond, Adam; and ———. "Using models of lexical style to quantify free indirect discourse in modernist fiction." *Digital Scholarship in the Humanities*, 32(2), 2017, 234–250 [online advance access 2016-02-03].

Brooke, Julian; Hammond, Adam; and ———. "Distinguishing voices in *The Waste Land* using computational stylistics." *Linguistic Issues in Language Technology*, 12(2), 2015.

Maziero, Erick Galani; ———; and Pardo, Thiago Alexandre Salgueiro. "Adaptation of discourse parsing models for Portuguese language." *Proceedings, 4th Brazilian Conference on Intelligent Systems (BRACIS)*, Natal, Brazil, November 2015, 140–145.

Maziero, Erick Galani; ——; and Pardo, Thiago Alexandre Salgueiro. "Semi-supervised never-ending learning in discourse parsing." *Proceedings, Recent Advances in Natural Language Processing (RANLP)*, Hissar, Bulgaria, September 2015, 436–442.

Wang, Tong; Mohamed, Abdel-rahman; and ———. "Learning lexical embeddings with syntactic and lexicographic knowledge." *Proceedings, 53rd Annual Meeting of the Association for Computational Linguistics*, Beijing, July 2015, volume 2, 458–463.

Zhang, Muyu; Qin, Bing; Zheng, Mao; ——; and Liu, Ting. "Encoding distributional semantics into triple-based knowledge ranking for document enrichment." *Proceedings*, 53rd Annual *Meeting of the Association for Computational Linguistics*, Beijing, July 2015, volume 1, 524–533.

Brooke, Julian; Hammond, Adam; Jacob, David; Tsang, Vivian; ——; and Shein, Fraser. "Building a lexicon of formulaic language for language learners." *Proceedings*, 11th Workshop on *Multiword Expressions*, Denver, June 2015, 96–104.

Brooke, Julian; Hammond, Adam; and ———. "GutenTag: An NLP-driven tool for digital humanities research in the Project Gutenberg Corpus." *Proceedings, Fourth Workshop on Computational Linguistics for Literature*, Denver, June 2015, 42–47.

Fraser, Kathleen C.; Ben-David, Naama; ——; Graham, Naida L.; and Rochon, Elizabeth. "Sentence segmentation of aphasic speech." *Proceedings*, 2015 *Conference of the North American Chapter of the Association for Computational Linguistics* — *Human Language Technologies*, Denver, June 2015, 862–871.

Zhang, Muyu; Feng, Vanessa Wei; Qin, Bing; ——; Liu, Ting; Huang, Jingwen. "Encoding world knowledge in the evaluation of local coherence." *Proceedings*, 2015 Conference of the North American Chapter of the Association for Computational Linguistics — Human Language Technologies,

Denver, June 2015, 1087–1096.

------. "Overcoming linguistic barriers to the Multilingual Semantic Web." In: Paul Buitelaar and Philipp Cimiano (editors), *Towards the Multilingual Semantic Web*, Springer, 2015, 1–14.

Kolhatkar, Varada and ———. "Resolving shell nouns." *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP-2014)*, Doha, Qatar, October 2014, 499–510.

Brooke, Julian and ———. "Supervised ranking of co-occurrence profiles for acquisition of continuous lexical attributes." *Proceedings*, 25th International Conference on Computational Linguistics (COLING-2014), Dublin, August 2014, 2172–2183.

Brooke, Julian; Tsang, Vivian; ——; and Shein, Fraser. "Unsupervised multiword segmentation of large corpora using prediction-driven decomposition of n-grams." *Proceedings*, 25th *International Conference on Computational Linguistics (COLING-2014)*, Dublin, August 2014, 753– 761.

Feng, Vanessa Wei; Lin, Ziheng; and ———. "The impact of deep hierarchical discourse structures in the evaluation of text coherence." *Proceedings*, 25th International Conference on Computational Linguistics (COLING-2014), Dublin, August 2014, 940–949.

Feng, Vanessa Wei and ———. "Patterns of local discourse coherence as a feature for authorship attribution". *Literary and Linguistic Computing*, 29(2), 2014, 191–198 [advance publication online, 9 April 2013].

Fraser, Kathleen C.; Meltzer, Jed A.; Graham, Naida L.; Leonard, Carol; ———; Black, Sandra E.; and Rochon, Elizabeth. "Automated classification of primary progressive aphasia subtypes from narrative speech transcripts." *Cortex*, 55, June 2014, 43–60 [advance publication online, 21 Dec 2012].

———; Riabinin, Yaroslav; Graham, Jory; Boizot-Roche, Magali; and Morris, Colin. "Text to ideology or text to party status?" In: Kaal, Bertie; Maks, E. Isa; and van Elfrinkhof, Annemarie M.E. (editors), *From Text to Political Positions: Text analysis across disciplines*, Amsterdam: John Benjamins, 2014, 93–115.

Fraser, Kathleen C.; ——; Meltzer, Jed A.; Mack, Jennifer E.; and Thompson, Cynthia K. "Using statistical parsing to detect agrammatic aphasia." *Proceedings*, *BioNLP 2014 Workshop*, Baltimore, June 2014, 134–142.

Fraser, Kathleen C.; ———; Graham, Naida L.; Meltzer, Jed A.; Black, Sandra E.; and Rochon, Elizabeth. "Comparison of different feature sets for identification of variants in progressive aphasia." *Proceedings, Workshop on Computational Linguistics and Clinical Psychology*, Baltimore, June 2014, 17–26.

Wang, Tong and ———. "Applying a naive Bayes similarity measure to word sense disambiguation." *Proceedings, 52nd Annual Meeting of the Association for Computational Linguistics,* Baltimore, June 2014, 531–537.

Feng, Vanessa Wei and ———. "A linear-time bottom-up discourse parser with constraints and post-editing." *Proceedings, 52nd Annual Meeting of the Association for Computational Linguistics,* Baltimore, June 2014, 511–521.

Kolhatkar, Varada; Zinsmeister, Heike; and ———. "Interpreting anaphoric shell nouns using cataphoric shell nouns as training data." *Proceedings*, 2013 Conference on Empirical Methods in Natural Language Processing, Seattle, October 2013, 300–310.

Brooke, Julian and ———. "Hybrid models for lexical acquisition of correlated styles." *Proceedings, 6th International Joint Conference on Natural Language Processing*, Nagoya, October 2013, 82–90.

Feng, Vanessa and ———. "Detecting deceptive opinions with profile compatibility." *Proceedings, 6th International Joint Conference on Natural Language Processing,* Nagoya, October 2013, 338–346.

Mohammad, Saif; Dorr, Bonnie; ——; Turney, Peter. "Computing lexical contrast." *Computational Linguistics*, 39(3), September 2013, 555–590.

Feng, Vanessa Wei and ———. "Authorship verification with entity coherence and other rich linguistic features." *Proceedings, PAN 2013 Lab: Uncovering Plagiarism, Authorship and Social Software Misuse — at the CLEF 2013 Conference and Labs of the Evaluation Forum: Information Access Evaluation meets Multilinguality, Multimodality, and Visualization, Valencia, September 2013 [refereed by extended abstract only].*

Kolhatkar, Varada; Zinsmeister, Heike; and ———. "Annotating anaphoric shell nouns with their antecedents." *Proceedings, The 7th Linguistic Annotation Workshop & Interoperability with Discourse*, Sofia, August 2013, 112–121.

Strauss, John; Martínez Peguero, Arturo; and ———. "Machine learning methods for clinical forms analysis in mental health." *Proceedings, 14th World Congress on Medical and Health Informatics (MEDINFO 2013)*, edited by Christoph Ulrich Lehmann, Elske Ammenwerth, and Christian Nøhr, Copenhagen, August 2013, IOS Press, page 1024. [1-page refereed abstract of poster presentation.]

Cook, Paul and ———. "Automatically assessing whether a text is clichéd, with applications to literary analysis." *Proceedings, 9th Workshop on Multiword Expressions (MWE 2013)*, Atlanta, June 2013, 52–57.

Brooke, Julian and ———. "Using other learner corpora in the 2013 NLI shared task." *Proceedings, 8th Workshop on Innovative Use of NLP for Building Educational Applications,* Atlanta, June 2013, 188–196.

Hammond, Adam; Brooke, Julian; and ———. "A tale of two cultures: Bringing literary analysis and computational linguistics together." *Proceedings, Second ACL Workshop on Computational Linguistics for Literature*, Atlanta, June 2013, 1–8.

Brooke, Julian; ——; and Hammond, Adam. "Clustering voices in *The Waste Land*." *Proceedings, Second ACL Workshop on Computational Linguistics for Literature*, Atlanta, June 2013, 41–46.

Brooke, Julian and ———. "A multi-dimensional Bayesian approach to lexical style." *Proceedings of the 2013 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*, Atlanta, June 2013, 673–679.

———; Talent, Nadia; and Scharf, Sara. "Detecting semantic overlap and discovering precedents in the biodiversity research literature." *Proceedings of the First International Workshop on Semantics for Biodiversity* (CEUR Workshop Proceedings, volume 979), Montpellier, France, 27 May 2013.

Brooke, Julian and ———. "Native language detection with 'cheap' learner corpora." In: Granger, Sylviane; Gilquin, Gaëtanelle; and Meunier, Fanny (editors) *Twenty Years of Learner Corpus Research: Looking back, moving ahead.* Louvain-la-Neuve: Presses universitaires de Louvain, 2013, 37–47.

Kennedy, Alistair and ———. "Measuring semantic relatedness across languages." *Proceedings, xLiTe: Cross-Lingual Technologies Workshop* at the Neural Information Processing Systems Conference, 2012, December, Lake Tahoe, NV.

Brooke, Julian and ———. "Robust, lexicalized native language identification." *Proceedings*, 24th International Conference on Computational Linguistics (COLING-2012), Mumbai, December 2012, 391–408.

Brooke, Julian and ———. "Paragraph clustering for intrinsic plagiarism detection using a stylistic vector-space model with extrinsic features." *Proceedings, PAN 2012 Lab: Uncovering Plagiarism, Authorship and Social Software Misuse — at the CLEF 2012 Conference and Labs of the Evaluation Forum: Information Access Evaluation meets Multilinguality, Multimodality, and Visual Analytics,* Rome, September 2012 [refereed by extended abstract only].

Morris, Colin and ———. "Identifying sexual predators by SVM classification with lexical and behavioral features." *Proceedings, PAN 2012 Lab: Uncovering Plagiarism, Authorship and Social Software Misuse — at the CLEF 2012 Conference and Labs of the Evaluation Forum: Information Access Evaluation meets Multilinguality, Multimodality, and Visual Analytics, Rome, September 2012 [refereed by extended abstract only].*

Kolhatkar, Varada and ———. "Resolving 'this-issue' anaphora." 2012 Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP-CoNLL 2012), 1255–1265, July 2012, Jeju, Korea.

Feng, Vanessa Wei and ———. "Text-level discourse parsing with rich linguistic features." *Proceedings*, 50th Annual Meeting of the Association for Computational Linguistics, Jeju, Korea, July 2012, 60–68.

Cook, Paul and ———. "Do Web-corpora from top-level domains represent national varieties of English?" *Proceedings*, 11^{es} *Journées internationales d'analyse statistique des données textuelles /* 11th International Conference on the Statistical Analysis of Textual Data (JADT 2012), Liège, June 2012, 281–293.

Brooke, Julian; Hammond, Adam; and ———. "Unsupervised stylistic segmentation of poetry with change curves and extrinsic features." *Proceedings, Workshop on Computational Linguistics for Literature*, Montreal, June 2012, 26–35.

Brooke, Julian; Tsang, Vivian; Jacob, David; Shein, Fraser; and ———. "Building readability lexicons with unannotated corpora." *Proceedings, Workshop on Predicting and Improving Text Readability for Target Reader Populations*, Montreal, June 2012, 33–39.

——— and Feng, Vanessa Wei. "Changes in style in authors with Alzheimer's disease." *English Studies* (special issue on stylometry and authorship attribution), 93(3), May 2012, 357–370.

Brooke, Julian and ———. "Measuring interlanguage: Native language identification with L1influence metrics." *Proceedings, 8th ELRA Conference on Language Resources and Evaluation (LREC 2012)*, Istanbul, May 2012. [Refereed by extended abstract]

Feng, Vanessa Wei and ———. "Extending the entity-based coherence model with multiple ranks." *Proceedings, 13th Conference of the European Chapter of the Association for Computational Linguistics,* Avignon, April 2012, 315–324.

Rudzicz, Frank; ———; and van Lieshout, Pascal. "Vocal tract representation in the recognition of cerebral palsied speech." *Journal of Speech, Language, and Hearing Research*, 55(4), August 2012, 1190-1207.

Cook, Paul and ———. "Automatic identification of words with novel but infrequent senses". *Proceedings, 25th Pacific Asia Conference on Language, Information and Computation, Singapore, December 2011, 265–274.*

Brooke, Julian; Wang, Tong; and ———. "Predicting word clipping with latent semantic analysis". *Proceedings, 5th International Joint Conference on Natural Language Processing*, Chiang Mai, November 2011, 1392–1396.

Wang, Tong and ———. "Refining the notions of depth and density in WordNet-based semantic similarity measures." 2011 Conference on Empirical Methods in Natural Language Processing, Edinburgh, July 2011, 1003–1011.

Le, Xuan; Lancashire, Ian; ——; and Jokel, Regina. "Longitudinal detection of dementia through lexical and syntactic changes in writing: A case study of three British novelists." *Literary and Linguistic Computing*, 26(4), December 2011, 435–461.

Wang, Tong and ———. "Exploring patterns in dictionary definitions for synonym extraction." *Natural Language Engineering*, 18(3), July 2012, 313–342.

Feng, Vanessa Wei and ———. "Classifying arguments by scheme." *Proceedings*, 49th Annual *Meeting of the Association for Computational Linguistics*, Portland, Oregon, June 2011, 987–996.

Wang, Tong and ———. "Near-synonym lexical choice in latent semantic space." *Proceedings*, 23rd International Conference on Computational Linguistics (COLING 2010), Beijing, August 2010, 1182–1190.

Brooke, Julian; Wang, Tong; and ———. "Automatic acquisition of lexical formality." *Proceedings*, 23rd International Conference on Computational Linguistics (COLING 2010), Beijing, August 2010, Poster volume pages 90–98.

Brooke, Julian; Wang, Tong; and ———. "Inducing lexicons of formality from corpora." *Workshop on Methods for the Automatic Acquisition of Language Resources and their Evaluation Methods, 7th Lexical Resources and Evaluation Conference*, Valetta, Malta, May 2010, 17–22.

———; Riabinin, Yaroslav; and Graham, Jory. "Party status as a confound in the automatic classification of political speech by ideology". *Proceedings*, 10th International Conference on Statistical Analysis of Textual Data / 10es Journées internationales d'Analyse statistique des Données Textuelles (JADT 2010), Rome, June 2010, 731–742.

Marathe, Meghana and ———. "Lexical chains using distributional measures of concept distance." *Proceedings*, 11th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2010) [Iaşi, Romania, March 2010], (Lecture Notes in Computer Science 6008), Berlin: Springer-Verlag, 2010, 291–302.

Wang, Tong and ———. "Extracting synonyms from dictionary definitions." *Conference on Recent Advances in Natural Language Processing*, September 2009, Borovets, Bulgaria, 470–476.

———. "Limitations of the philosophy of language understanding implicit in computational linguistics." *Proceedings, 7th European Conference on Computing and Philosophy,* Barcelona, July 2009, 108–109.

Rudzicz, Frank; van Lieshout, Pascal; ——; Penn, Gerald; Shein, Fraser; and Wolff, Talya.

"Towards a comparative database of dysarthric articulation." *Proceedings of the 8th International Speech Production Seminar (ISSP 2008)*, Strasbourg, France, December 2008, 285–288.

Mohammad, Saif; Dorr, Bonnie J.; ———. "Computing word-pair antonymy." *Proceedings*, 2008 Conference on Empirical Methods in Natural Language Processing (EMNLP 2008), Honolulu, October 2008, 982–991.

Wilcox-O'Hearn, Amber; ——; and Budanitsky, Alexander. "Real-word spelling correction with trigrams: A reconsideration of the Mays, Damerau, and Mercer model." In: Gelbukh, Alexander (editor), *Proceedings, 9th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2008)* [Haifa, February 2008], (Lecture Notes in Computer Science 4919), Berlin: Springer-Verlag, 2008, 605–616. Award for best poster.

——— and Feiguina, Ol'ga. "Bigrams of syntactic labels for authorship discrimination of short texts." *Literary and Linguistic Computing*, 22(4), 2007, 405–417.

Niu, Yun and ———. "Identifying cores of semantic classes in unstructured text with a semisupervised learning approach." *Proceedings, International Conference on Recent Advances in Natural Language Processing,* September 2007, Borovets, Bulgaria, 418–424.

Feiguina, Ol'ga and ———. "Authorship attribution for small texts: Literary and forensic experiments." *Proceedings, International Workshop on Plagiarism Analysis, Authorship Identification, and Near-Duplicate Detection*, 30th Annual International ACM SIGIR Conference (SIGIR '07), Amsterdam, July 2007. [Refereed by abstract only]

Mohammad, Saif; ———; and Resnik, Philip. "TOR, TORMD: Distributional profiles of concepts for unsupervised word sense disambiguation." *SemEval-2007: 4th International Workshop on Semantic Evaluations*, Prague, June 2007, 326–333.

Mohammad, Saif; Gurevych, Iryna; ——; and Zesch, Torsten. "Cross-lingual distributional profiles of concepts for measuring semantic distance." 2007 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP-CoNLL 2007), Prague, June 2007, 571–580.

———. "Views of text-meaning in computational linguistics: Past, present, and future." In: *Computation, Information, Cognition* — *The Nexus and the Liminal*, Dodig Crnkovic, Gordana and Stuart, Susan (editors), Cambridge Scholars Publishing, Newcastle-upon-Tyne, 2007, 270–279.

Niu, Yun; Zhu, Xiaodan; and ———. "Using outcome polarity in sentence extraction for medical question-answering." *Proceedings of the American Medical Informatics Association 2006 Annual Symposium*, Washington, D.C., November 2006, 599–603.

Mohammad, Saif and ———. "Distributional measures of concept-distance: A task-oriented evaluation." *Proceedings*, 2006 Conference on Empirical Methods in Natural Language Processing (EMNLP 2006), Sydney, Australia, July 2006, 35–43.

Inkpen, Diana and ———. "Building and using a lexical knowledge-base of near-synonym differences." *Computational Linguistics*, 32(2), June 2006, 223–262.

Mohammad, Saif and ———. "Determining word sense dominance using a thesaurus." *Proceedings of the 11th conference of the European chapter of the Association for Computational Linguistics* (*EACL-2006*), April 2006, Trento, Italy, 121–128.

Budanitsky, Alexander and ———. "Evaluating WordNet-based measures of lexical semantic relatedness." *Computational Linguistics*, 32(1), March 2006, 13–47.

Graham, Neil; ——; and Marthi, Bhaskara. "Segmenting documents by stylistic character."

Natural Language Engineering, 11(4), December 2005, 397–415.

Niu, Yun; Zhu, Xiaodan; Li, Jianhua; and ———. "Analysis of polarity information in medical text." *Proceedings of the American Medical Informatics Association 2005 Annual Symposium*, Washington, D.C., October 2005, 570–574.

Morris, Jane and ———. "The subjectivity of lexical cohesion in text." In: Shanahan, James G.; Qu, Yan; and Wiebe, Janyce (eds.) *Computing Attitude and Affect in Text: Theory and Applications*, Dordrecht: Springer, 2005, 41–48.

Inkpen, Diana; Feiguina, Ol'ga; and ———. "Generating more-positive and more-negative text." In: Shanahan, James G.; Qu, Yan; and Wiebe, Janyce (eds.) *Computing Attitude and Affect in Text: Theory and Applications*, Dordrecht: Springer, 2005, 187–198.

Li, Jianhua and ———. "Semantic knowledge in a word completion task." *Proceedings of the 7th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS-2005)*, Baltimore, October 2005, 121–128.

——— and Budanitsky, Alexander. "Correcting real-word spelling errors by restoring lexical cohesion". *Natural Language Engineering*, 11(1), March 2005, 87–111.

Niu, Yun and ———. "Analysis of semantic classes in medical text for question answering." Workshop on Question Answering in Restricted Domains at the 42nd Annual Meeting of the Association for Computational Linguistics, Barcelona, July 2004, 54–61.

Morris, Jane and ———. "Non-classical lexical semantic relations." Workshop on Computational Lexical Semantics, Human Language Technology Conference of the North American Chapter of the Association for Computational Linguistics, Boston, May 2004, 46–51. Reprinted in: Hanks, Patrick (editor), Lexicology: Critical Concepts in Linguistics, Routledge, 2007.

Morris, Jane and ———. "The subjectivity of lexical cohesion in text." *AAAI Spring Symposium: Exploring Attitude and Affect in Text: Theories and Applications* (published as AAAI Technical report SS-04-07), Stanford, March 2004, 102–105.

Inkpen, Diana Zaiu; Feiguina, Ol'ga; and ———. "Generating more-positive and more-negative text." *AAAI Spring Symposium: Exploring Attitude and Affect in Text: Theories and Applications* (published as AAAI Technical report SS-04-07), Stanford, March 2004, 83–89.

———. "Ontology and the lexicon." In: Staab, Steffen and Studer, Rudi (editors), *Handbook on Ontologies*, Berlin: Springer Verlag (International Handbooks on Information Systems), 2004, 209–229.

Inkpen, Diana Zaiu and ———. "Near-synonym choice in natural language generation." *Fourth Conference on Recent Advances in Natural Language Processing (RANLP-2003),* September 2003, Borovets, Bulgaria, 204–211. Reprinted, slightly abridged, in: Nicolas Nicolov, Kalina Bontcheva, Galia Angelova, and Ruslan Mitkov, editors. *Recent Advances in Natural Language Processing III: Selected Papers from RANLP 2003,* John Benjamins Publishing Company, 2004, 141–150.

Graham, Neil and ———. "Segmenting a document by stylistic character." Workshop on Computational Approaches to Style Analysis and Synthesis, 18th International Joint Conference on Artificial Intelligence, Acapulco, August 2003, 47–54.

Niu, Yun; ——; McArthur, Gregory; and Rodriguez-Gianolli, Patricia. "Answering clinical questions with role identification." *Proceedings, Workshop on Natural Language Processing in Biomedicine*, 41st annual meeting of the Association for Computational Linguistics, Sapporo, Japan, July 2003, 73–80. ———. "Natural language processing, Disambiguation in", *Encyclopedia of Cognitive Science*, Nature Publishing Group (Macmillan), 2003, Vol. 3, 181–188.

Fazly, Afsaneh and ———. "Testing the efficacy of part-of-speech information in word completion." Workshop on Language Modeling for Text Entry Methods, 11th Conference of the European Chapter of the Association for Computational Linguistics, Budapest, April 2003, 9–16.

Inkpen, Diana Zaiu and ———. "Automatic sense disambiguation of the near-synonyms in a dictionary entry." *Proceedings of the Fourth International Conference on Computational Linguistics and Intelligent Text Processing (CICLing-2003)*, Mexico City, February 2003, (Lecture Notes in Computer Science, Berlin: Springer-Verlag), 258–267.

———. "Negotiation, compromise, and collaboration in interpersonal and human–computer conversations." *Workshop on Meaning Negotiation, 18th National Conference on Artificial Intelligence,* Edmonton, 28 July 2002, 1–4.

Inkpen, Diana Zaiu and ———. "Acquiring collocations for lexical choice between near-synonyms." SIGLEX Workshop on Unsupervised Lexical Acquisition, 40th meeting of the Association for Computational Linguistics, Philadelphia, 12 July 2002, 67–76.

Edmonds, Philip and ———. "Near-synonymy and lexical choice." *Computational Linguistics*, **28**(2), June 2002, 105–144.

Budanitsky, Alexander and ———. "Semantic distance in WordNet: An experimental, applicationoriented evaluation of five measures." *Workshop on WordNet and Other Lexical Resources, Second meeting of the North American Chapter of the Association for Computational Linguistics*, Pittsburgh, June 2001, 29–34.

Inkpen, Diana Zaiu and ———. "Building a lexical knowledge-base of near-synonym differences." Workshop on WordNet and Other Lexical Resources, Second Meeting of the North American Chapter of the Association for Computational Linguistics, Pittsburgh, June 2001, 47–52.

Inkpen, Diana Zaiu and ———. "Experiments on extracting knowledge from a machinereadable dictionary of synonym differences." In: Gelbukh, Alexander (editor), *Computational Linguistics and Intelligent Text Processing*, [Proceedings of the Second International Conference, Mexico City, February 2001], (Lecture Notes in Computer Science 2004), Berlin: Springer-Verlag, 2001, 264–278.

Baljko, Melanie and ———. "The importance of subjectivity in computational stylistic assessment." *Text Technology*, 9(1), Spring 1999 [published April 2000], 5–17.

Edmonds, Philip and ———. "Reconciling fine-grained lexical knowledge and coarse-grained ontologies in the representation of near-synonyms." *Workshop on Semantic Approximation, Granularity, and Vagueness*, Breckenridge, Colorado, April 2000.

———. "Context as a spurious concept." *Proceedings, Conference on Intelligent Text Processing and Computational Linguistics,* Mexico City, February 2000, 273–287.

———. "What exactly are lexical concepts?" *Behavioral and Brain Sciences*, **22**(1), February 1999, 45–46.

Ansari, Daniel and ———. "Generating warning instructions by planning accidents and injuries." *Proceedings*, 9th International Workshop on Natural Language Generation, Niagara-on-the-Lake, Ontario, August 1998, 118–127.

——— and St-Onge, David. "Lexical chains as representations of context for the detection and correction of malapropisms". In: Christiane Fellbaum (editor), *WordNet: An Electronic Lexical*

Database, Cambridge, MA: The MIT Press, 1998, 305–332.

———; DiMarco, Chrysanne; Hovy, Eduard; and Parsons, Kimberley. "Authoring and generating health-education documents that are tailored to the needs of the individual patient." In: Jameson, Anthony; Paris, Cécile; and Tasso, Carlo (editors), *User Modeling: Proceedings of the Sixth International Conference, UM97* (Chia Laguna, Sardinia, Italy), Vienna and New York: Springer Wien New York, June 1997, 107–118.

DiMarco, Chrysanne; ———; and Hovy, Eduard. "Generation by selection and repair as a method for adapting text for the individual reader." *Proceedings of the Flexible Hypertext Workshop* (held in conjunction with the 8th ACM International Hypertext Conference, Southampton, April 1997); published as Report C/TR97-06, Microsoft Research Institute, Macquarie University, August 1997. 36–43.

Marcu, Daniel and ———. "A formal and computational characterization of pragmatic infelicities." *Proceedings of the Twelfth European Conference on Artificial Intelligence*, Budapest, August 1996, 587–591. [An earlier version of this paper appeared as: Marcu, Daniel and ———. "Detecting pragmatic infelicities." *AAAI Symposium on Computational implicature: Computational approaches to interpreting and generating conversational implicature*, Stanford University, March 1996, 64–70.]

Glover, Angela and ———. "Detecting stylistic inconsistencies in collaborative writing." In: Sharples, Mike and van der Geest, Thea (editors), *The New Writing Environment: Writers at Work in a World of Technology.* London: Springer-Verlag, 1996. 147–168.

Wiebe, Janyce M.; ———; and Horton, Diane. "Language use in context." *Communications of the ACM*, **39**(1), January 1996, 102–111.

McRoy, Susan and ———. "The repair of speech act misunderstandings by abductive inference." *Computational Linguistics*, **21**(4), December 1995, 435–478.

Marcu, Daniel and ———. "A uniform treatment of pragmatic inferences in simple and complex utterances and sequences of utterances". *Proceedings, 33rd Annual Meeting, Association for Computational Linguistics,* Cambridge, MA, June 1995, 144–150.

Heeman, Peter and ———. "Collaborating on referring expressions." *Computational Linguistics*, **21**(3), September 1995, 351–382. [Earlier version appeared as technical report 435, Department of Computer Science, University of Rochester, August 1992; revised version, April 1995.]

———. "Near-synonymy and the structure of lexical knowledge." AAAI Symposium on Representation and Acquisition of Lexical Knowledge: Polysemy, Ambiguity, and Generativity, Stanford University, March 1995, 51–56.

Marcu, Daniel and ———. "An implemented formalism for computing linguistic presuppositions and existential commitments." *Proceedings, International Workshop on Computational Semantics,* Tilburg, The Netherlands, December 1994, 141–150.

———; McRoy, Susan; Heeman, Peter; Edmonds, Philip; and Horton, Diane. "Repairing conversational misunderstandings and non-understandings." *Speech communication*, **15**(3–4), December 1994, 213–229. [An earlier version appeared as an invited paper in *Proceedings, International Symposium on Spoken Dialogue*, Waseda University, Tokyo, November 1993, 185–196, and in *Proceedings, ATR International Workshop on Speech Translation*, ATR Interpreting Telecommu-

nications Research Laboratories, Kyoto, November 1993 [unpaginated].]

. "Natural language analysis by computer." *The Encyclopedia of Language and Linguistics*, (R.E. Asher, editor-in-chief), Oxford: Pergamon Press, 1994. Vol 5, 2730–2736.

Mellish, C.S. and ———. "Natural language processing." *The Encyclopedia of Language and Linguistics*, (R.E. Asher, editor-in-chief), Oxford: Pergamon Press, 1994. Vol 5, 2748.

———. "Reference and anaphor resolution in natural language processing." *The Encyclopedia of Language and Linguistics*, (R.E. Asher, editor-in-chief), Oxford: Pergamon Press, 1994. Vol 7, 3487–3489.

-------. "Semantic interpretation in natural language processing." *The Encyclopedia of Language and Linguistics*, (R.E. Asher, editor-in-chief), Oxford: Pergamon Press, 1994. Vol 7, 3801–3804.

McRoy, Susan and ———. "Misunderstanding and the negotiation of meaning." *AAAI Fall Symposium on Human–Computer Collaboration*, Raleigh, NC, October 1993, 57–62.

DiMarco, Chrysanne and ———. "Usage notes as the basis for a representation of near-synonymy for lexical choice." *Proceedings, 9th Annual Conference of the University of Waterloo Centre for the New Oxford English Dictionary and Text Research*, Oxford, September 1993, 33–43.

DiMarco, Chrysanne and ———. "A computational theory of goal-directed style in syntax." *Computational Linguistics*, **19**(3), September 1993, 451–499.

DiMarco, Chrysanne; ——; and Makuta-Giluk, Marzena. "A goal-based grammar of rhetoric." *Association for Computational Linguistics, Workshop on Intentionality and Structure in Discourse Relations*, Ohio State University, June 1993, 15–18.

———— and Wu, Dekai. "Not all reflexive reasoning is deductive." *Behavioral and Brain Sciences*, **16**(3), September 1993, 462–463.

McRoy, Susan and ———. "Abductive explanations of dialogue misunderstandings." *Proceedings*, 6th Conference of the European Chapter of the Association for Computational Linguistics, Utrecht, April 1993, 277–286.

Horton, Diane and ———. "Knowledge about planning: On the meaning and representation of plan decomposition." *AAAI Spring Symposium on Reasoning about Mental States: Formal Theories and Applications*, Stanford, CA, March 1993, 74–78.

DiMarco, Chrysanne; ——; and Stede, Manfred. "The semantic and stylistic differentiation of synonyms and near-synonyms." *AAAI Spring Symposium on Building Lexicons for Machine Translation*, Stanford, CA, March 1993, 114–121.

Payette, Julie and ———. "An intelligent computer assistant for stylistic instruction." *Computers and the Humanities*, **26**(2), 1992, 87–102.

——— and Ryan, Mark. "Mixed-depth representations for natural language text." In: Jacobs, Paul S. (editor). *Text-Based Intelligent Systems*, Hillsdale, NJ: Lawrence Erlbaum Associates, 1992, 59–82.

Dick, Judy and ———. "A case-based representation of legal text for conceptual retrieval." *Workshop on Language and Information Processing, American Society for Information Science*, Washington, DC, October 1991.

Horton, Diane and ———. "Discrepancies in discourse models and miscommunication in conversation." AAAI Fall Symposium on Discourse Structure in Natural Language Understanding and

Generation, Pacific Grove, California, November 1991, 31–32.

McRoy, Susan and ———. "An abductive account of repair in conversation." AAAI Fall Symposium on Discourse Structure in Natural Language Understanding and Generation, Pacific Grove, California, November 1991, 52–57.

McRoy, Susan and ———. "Repairs in communication are abductive inferences." *AAAI Fall Symposium on Knowledge and Action at the Social and Organizational Levels*, Pacific Grove, California, November 1991, 89–91.

Regoczei, Stephen and ———. "The corporation as mind: Lessons for AI." AAAI Fall Symposium on Knowledge and Action at the Social and Organizational Levels, Pacific Grove, California, November 1991, 95–97.

Dick, Judy and ———. "Intelligent text retrieval." *Text retrieval: Workshop notes from the Ninth National Conference on Artificial Intelligence (AAAI-91),* Anaheim, California, July 1991.

————. "Existence assumptions in knowledge representation." *Artificial Intelligence*, **49**, May 1991, 199–242. (This issue of the journal was reprinted as: Brachman, Ronald J.; Levesque, Hector J.; and Reiter, Raymond (editors). *Knowledge Representation*. Cambridge, MA: The MIT Press, 1992.)

Payette, Julie and ———. "Computer-assisted instruction in syntactic style", *Proceedings*, *ACH/ALLC* '91, "Making connections" [International Conference on Computers and the Humanities], Tempe, Arizona, March 1991. 333–340.

Morris, Jane and ———. "Lexical cohesion computed by thesaural relations as an indicator of the structure of text." *Computational Linguistics*, **17**(1), March 1991, 21–48.

Catt, Mark and ———. "An intelligent CALI system for grammatical error diagnosis." *Computer Assisted Language Learning*, **3**, November 1990, 3–26.

DiMarco, Chrysanne and ———. "Accounting for style in machine translation." *Third International Conference on Theoretical Issues in Machine Translation*, Austin, June 1990.

Lyons, Dan and ———. "A frame-based semantics for focusing subjuncts." *Proceedings of the* 28th Annual Meeting of the Association for Computational Linguistics, Pittsburgh, June 1990, 54–61. Also published as technical report ACT-NL-109-90, Microelectronics and Computer Technology Corporation, Austin, Texas, July 1990.

McRoy, Susan Weber and ———. "Race-based parsing and syntactic disambiguation." *Cognitive Science*, **14**(3), July–September 1990, 313–353.

Regoczei, Stephen and ———. "Sortal analysis with SORTAL, a software assistant for knowledge acquisition." *Proceedings, Fourth Workshop on Knowledge Acquisition for Knowledge-Based Systems*, Banff, October 1989. [Also published as technical report CSRI-232, Computer Systems Research Institute, University of Toronto, August 1989.]

———. "Ontological assumptions in knowledge representation." *Proceedings, First International Conference on Principles of Knowledge Representation and Reasoning*, Toronto, May 1989. San Mateo, CA: Morgan Kaufmann Publishers, 157–169. [A short earlier version appears in the pre-prints of the Workshop on Formal Aspects of Semantic Networks, Santa Catalina, February 1989.]

Regoczei, Stephen and ———. "On 'Extracting knowledge from text': Modelling the architecture of language users." *Proceedings, Third European Workshop on Knowledge Acquisition for Knowledge-Based Systems,* Paris, July 1989, 196–211. [Also published as technical report CSRI-225, Computer Systems Research Institute, University of Toronto, January 1989.]

Regoczei, Stephen and ———. "The meaning triangle as a tool for the acquisition of abstract, conceptual knowledge." *International Journal of Man–Machine Studies*, **33**(5), November 1990, 505–520. [Previously published in *Proceedings, 3rd Workshop on Knowledge Acquisition for Knowledge-Based Systems*, Banff, November 1988.] [Also published as technical report CSRI-211, Computer Systems Research Institute, University of Toronto, May 1988.]

Horton, Diane and ———. "Presuppositions as beliefs." 12th International Conference on Computational Linguistics (COLING-88), Budapest, August 1988, 255–260.

DiMarco, Chrysanne and ———. "Stylistic grammars in language translation." 12th International Conference on Computational Linguistics (COLING-88), Budapest, August 1988, 148–153.

———. "Resolving lexical ambiguity computationally with spreading activation and Polaroid Words." In: Small, Steven; Cottrell, Garrison and Tanenhaus, Michael (editors). *Lexical Ambiguity Resolution*, Los Altos, CA: Morgan Kaufmann, 1988, 73–107.

———. "Semantic interpretation and ambiguity." *Artificial Intelligence*, **34**(2), March 1988, 131–177.

Selman, Bart and ———. "Parsing as an energy minimization problem." In: Davis, Lawrence (editor). *Genetic Algorithms and Simulated Annealing* (Research notes in artificial intelligence), Pitman, 1987, 141–154. Revised version appears in: Geert Adriaens and Udo Hahn (editors). *Parallel Natural Language Processing*. Norwood, NJ: Ablex Publishing, 1994, 238–254.

-------. "Semantics." In: Shapiro, Stuart Charles and Eckroth, David (editors). *Encyclopedia of Artificial Intelligence*. New York: Wiley-Interscience / John Wiley, 1987, 1024–1029.

Fawcett, Brenda and ———. "The detection and representation of ambiguities of intension and description." *Proceedings of the 24th Annual Meeting, Association for Computational Linguistics,* New York, June 1986, 192–199.

Selman, Bart and ———. "A rule-based connectionist parsing system." *Proceedings of the Seventh Annual Conference of the Cognitive Science Society*, Irvine, August 1985, 212–221.

-------. "A semantic process for syntactic disambiguation." *Proceedings, Fourth National Conference on Artificial Intelligence (AAAI-84)*, Austin, August 1984, 148–152.

-------. "Jumping to conclusions: Psychological reality and unreality in a word disambiguation program." *Proceedings, Sixth Meeting of the Cognitive Science Society,* Boulder, June 1984, 179–182.

———. "A foundation for semantic interpretation". *Proceedings of the 21st Annual Meeting of the Association for Computational Linguistics*, Cambridge, Mass., June 1983, 64–73. [Also published as technical report CS-83-03, Department of Computer Science, Brown University, January 1983.]

———— and Charniak, Eugene. "Word sense and case slot disambiguation". *Proceedings of the Second National Conference on Artificial Intelligence (AAAI-82)*, Pittsburgh, August 1982, 95–98.

———. "An evaluation of evidence for innate sex differences in linguistic ability". *Journal of Psycholinguistic Research*, **11**(2), March 1982, 95–113.

———. "Discourse-oriented anaphora resolution in natural language understanding: A review". *American Journal of Computational Linguistics*, **7**(2), April–June 1981, 85–98.

——— and Talent, Nadia. "What should Computer Scientists read?" *Proceedings of the Eighth Australian Computer Conference*, Canberra, August 1978, 1707–1716.

———. "Discipline impact factors: A method for determining core journal lists". *Journal of the American Society for Information Science*, **29**(4), July 1978, 171–172.

——— and Talent, Nadia. "Computer Science journals—An iterated citation analysis". *IEEE Transactions on Professional Communication*, **PC-20**(4), December 1977, 233–238.

Unrefereed publications

Ethayarajh, Kawin; Duvenaud, David; and ——. "Towards understanding linear word analogies." *arXiv*:1810.04882, 11 October 2018 (v5, 24 December 2018).

Hammond, Adam; Brooke, Julian; and ———. "Modeling modernist dialogism: Close reading with big data." *Reading Modernism with Machines: Digital humanities and modernist literature*, edited by Shawna Ross and James O'Sullivan. London: Palgrave Macmillan, 2016, 49–77.

———; Feng, Vanessa Wei; Cochrane, Christopher; and Naderi, Nona. "Argumentation, ideology, and issue framing in parliamentary discourse." *Proceedings of the Workshop on Frontiers and Connections between Argumentation Theory and Natural Language Processing*, Forlì-Cesena, Italy, July 2014. CEUR Workshop Proceedings, volume 1341.

———. "Computational Linguistics." In: Allan, Keith (editor), *The Oxford Handbook of the History of Linguistics*, Oxford University Press, 2013, 707–726.

———. "Overcoming linguistic barriers to the multilingual Semantic Web" [extended abstract]. In: Paul Buitelaar, Key-Sun Choi, Philipp Cimiano, and Eduard H. Hovy (editors), The Multilingual Semantic Web (Dagstuhl Seminar 12362), *Dagstuhl Reports*, 2(9), 2013. 44–45.

Brooke, Julian and ———. "Lexicalizing computational stylistics for language learner feedback." *Proceedings, Conference on Stylistics Across Disciplines*, Leiden, June 2011. [Reviewed by extended abstract.]

Niu, Yun and ———. "Analyzing the text of clinical literature for question answering." In: Prince, Violaine and Roche, Mathieu (editors), *Information Retrieval in Biomedicine*, IGI Global, 2009, 190–220 [Invited book chapter].

———. Foreword to *Word Sense Disambiguation*, edited by Eneko Agirre and Philip Edmonds, Springer, 2006. [Invited]

———. "Association for Computational Linguistics." In: Brown, Keith (editor-in-chief); Anderson, Anne H.; Bauer, Laurie; Berns, Margie; Hirst, Graeme; and Miller, Jim (coordinating editors). *Encyclopedia of Language and Linguistics* (second edition), Elsevier Science, December 2005.

———. "Human language technology." In: Brown, Keith (editor-in-chief); Anderson, Anne H.; Bauer, Laurie; Berns, Margie; Hirst, Graeme; and Miller, Jim (coordinating editors). *Ency-clopedia of Language and Linguistics* (second edition), Elsevier Science, December 2005.

Morris, Jane; Beghtol, Clare; and ———. "Term relationships and their contribution to text semantics and information literacy through lexical cohesion." *Proceedings of the 31st Annual Conference of the Canadian Association for Information Science*, Halifax, Nova Scotia, 30 May – 1 June 2003, 153–168.

DiMarco, Chrysanne; ——; Wanner, Leo; and Wilkinson, John. "HealthDoc: Customizing patient information and health education by medical condition and personal characteristics." *Workshop on Artificial Intelligence in Patient Education*, Glasgow, August 1995.

Ryan, Mark; DiMarco, Chrysanne; and ———. "Focus shifts as indicators of style in paragraphs." In DiMarco, Chrysanne *et al, Four Papers on Computational Stylistics*. Research report CS-92-35, Department of Computer Science, University of Waterloo, June 1992.

Regoczei, Stephen and ———. "Knowledge and knowledge acquisition in the computational context." In: Hoffmann, Robert R. (editor). *The Psychology of Expertise: Cognitive research and empirical AI*. New York: Springer-Verlag, 1992, 12–25.

-------. "Planning the future of natural language research (even in Canada)." *Canadian Artificial Intelligence*, number 26, February 1991, 10–13.

------. "Computational models of ambiguity resolution." In: Gorfein, David S. (editor). *Resolving Semantic Ambiguity* (Cognitive science series), Springer-Verlag, 1989, 255–275.

Regoczei, Stephen and ———. "Knowledge acquisition as knowledge explication by conceptual analysis." Technical report CSRI-205, Computer Systems Research Institute, University of Toronto, January 1988.

Levesque, Hector. *Functional Programming in Lisp* (revised and edited by Graeme Hirst). Department of Computer Science, University of Toronto, April 1987.

Horton, Diane and ———. "Presuppositions as beliefs: A new approach." In: Geller, James and Bettinger, Keith (editors). *UBGCSS-87: Proceedings of the Second UB Graduate-Conference on Computer Science.* Technical report 87-04, Department of Computer Science, State University of New York at Buffalo, March 1987, 30–38.

Edited books

Brown, Keith (editor-in-chief); Anderson, Anne H.; Bauer, Laurie; Berns, Margie; ——; and Miller, Jim (coordinating editors). *Encyclopedia of Language and Linguistics* (second edition), (14 vols.), Elsevier Science, December 2005.

Monographs

———. Semantic Interpretation and the Resolution of Ambiguity (Studies in natural language processing). Cambridge, England: Cambridge University Press, 1987. (Reprinted 1992.)

———. Anaphora in Natural Language Understanding: A survey (Lecture Notes in Computer Science 119). Berlin: Springer-Verlag, 1981.

Databases

Rudzicz, Frank; ——; Van Lieshout, Pascal; Penn, Gerald; Shein, Fraser; Namasivayam, Aravind Kumar; Wolff, Talya. The TORGO database of dysarthric articulation. Catalog number LDC2012S02, Linguistic Data Consortium, 2012.

Review articles

———. "Does Conversation Analysis have a role in computational linguistics?" *Computational linguistics*, **17**(2), June 1991, 211–227. [Review of: Luff, Paul; Gilbert, Nigel; and Frohlich, David (editors). *Computers and Conversation*. London: Academic Press, 1990]. [semi-refereed]

Book reviews, etc.

———. Review of: Clark, Alexander; Fox, Chris; and Lappin, Shalom (editors), *The Handbook of Computational Linguistics and Natural Language Processing*, Malden, MA: Wiley-Blackwell, 2010. In: *Language*, **87**(4), December 2011, 897–899.

———. Review of: Scott, Mike and Thompson, Geoff (editors), *Patterns of Text: In Honour of Michael Hoey*, Amsterdam: John Benjamins, 2001. In: *Computational Linguistics*, **28**(4), December 2002, 560–564.

———. Review of: Biber, Douglas; Johansson, Stig; Leech, Geoffrey; Conrad, Susan; and Finegan, Edward, *Longman Grammar of Spoken and Written English*, Harlow, Essex: Pearson Education Ltd, 1999. In: *Computational Linguistics*, **27**(1), March 2001, 132–139.

———. Review of: Vossen, Piek (editor). *EuroWordNet: A Multilingual Database with Lexical Semantic Networks*, Dordrecht: Kluwer Academic Publishers, 1998. In: *Computational Linguistics*, **25**(4), December 1999, 628–630.

———. Review of: Cottrell, Garrison W. A Connectionist Approach to Word Sense Disambiguation (Research notes in artificial intelligence). London: Pitman and San Mateo, CA: Morgan Kaufmann, 1989. In: Computational Linguistics, **16**(4), December 1990, 241–242.

———. Review of: Bátori, István S.; Lenders, Winfried; and Putschke, Wolfgang (editors). *Computational Linguistics: An International Handbook on Computer Oriented Language Research and Applications / Computerlinguistik: Ein internationales Handbuch zur computergestützten Sprach-forschung und ihrer Anwendungen* (Handbooks of linguistics and communication science 4 / Handbücher zur Sprach- und Kommunikationswissenschaft). Berlin: Walter de Gruyter, 1989. In: *Computational Linguistics*, **16**(2), June 1990, 121–123.

—. Review of: Butler, Christopher. Computers in Linguistics. Oxford: Blackwell, 1985.

Computational Linguistics, 13(3–4), July–September 1987, 335–336.

———. Review of: van Bakel, Jan. *Automatic Semantic Interpretation: A Computer Model of Understanding Natural Language*, Dordrecht: Foris Publications, 1984. *Computational Linguistics*, **11**(2–3), April–September 1985, 185–186.

Many short reviews in *Computational Linguistics*, 1988–2014.

Many short reviews in *Computing Reviews*, 1982–2000.

Many short reviews in Canadian Artificial Intelligence, 1985–1996.

Unpublished conference and workshop presentations

Leung, Yvonne; Wong, Jiahui; Gancarz, Mathew; Gratzer, David; ——; Da Silva, Daswin; Alahakoon, Damminda; Bender, Jackie; French, Leon; and Esplen, Mary Jane. "Building an artificial intelligent system to enhance online support groups in cancer." 22nd World Congress of Psycho-Oncology, Online, May 2021.

Hammond, Adam; Vishnubhotla, Krishnapriya; and ———. "The words themselves: A contentbased approach to quote attribution." Digital Humanities Conference, Ottawa, July 2020.

Naderi, Nona and ———. "Reputation management strategies in argumentative political exchanges." Second European Conference on Argumentation, Fribourg, 20–23 June 2017.

——, "Automatic exploration of argument and ideology in political texts." First European Conference on Argumentation, Lisbon, 9–12 June 2015.

Rheault, Ludovic; Beelen, Kaspar; Cochrane, Christopher; ——. "Measuring emotion in parliamentary debates using natural language processing", Annual Conference of the Canadian Political Science Association, 2-4 June 2015, Ottawa. [Refereed by abstract only; presentation by Rheault.]

Brooke, Julian and ———. "Investigating the influence of multi-L1 learner corpora variables on native language identification." Learner Corpus Research Conference, Bergen, Norway, 27–29 September 2013. [Refereed by abstract only; presentation by Brooke.]

———. "Usability — a neglected dimension." *Beyond the PDF 2* Conference, Amsterdam, March 2013.

——— and Talent, Nadia. "NLP methods for discovering precedent research in the legacy literature." *Beyond the PDF 2* Conference, Amsterdam, March 2013.

Brooke, Julian and ———. "Multidimensional analysis versus latent semantic analysis for constructing a register space: Are hand-coded features needed or is bags-of-words enough?" Presented at the Linguistic Society of Belgium conference on Genre- and Register-related Text and Discourse Features in Multilingual Corpora, Brussels, January 2013. [Refereed by abstract only; presentation by Brooke.]

———. "Overcoming linguistic barriers to the multilingual Semantic Web." Dagstuhl Seminar on the Multilingual Semantic Web, Leibniz-Zentrum für Informatik, Schloss Dagstuhl, Germany, September 2012. [Invited]

Brooke, Julian and ———. "Factors of formality: A dimension of register in a sociolinguistic corpus." Poster at the Georgetown University Round Table on Languages and Linguistics 2012: Measured Language: Quantitative Approaches to Acquisition, Assessment, Processing and Variation, Washington D.C., March 2012. [Refereed by abstract only; presentation by Brooke.]

Brooke, Julian and ———. "Native language detection with 'cheap' learner corpora" *LCR* 2011: 20 years of learner corpus research: Looking back, moving ahead, Louvain-la-Neuve, Belgium, September 2011. [Refereed by abstract only; presentation by Brooke.]

Wang, Tong and ———. "Associating difficulty in near-synonymy choice with types of nuance using core vocabulary." Symposium on Re-thinking Synonymy, Helsinki, October 2010. [Reviewed by extended abstract; presentation by Hirst.]

———; Riabinin, Yaroslav; Graham, Jory; and Boizot-Roche, Magali. "Text to Ideology or Text to Party Status?" From Text to Political Positions workshop, University of Amsterdam, 8–9 April 2010. [Reviewed by full paper submission; presentation by Hirst.]

Lancashire, Ian and ———. "Vocabulary changes in Agatha Christie's mysteries as an indication of dementia: A case study." 19th Annual Rotman Research Institute Conference, Cognitive Aging: Research and Practice, 8–10 March 2009, Toronto. [Poster; reviewed by extended abstract.]

Feiguina, Ol'ga and ———. "Forensic authorship attribution for small texts." 8th Biennial Conference on Forensic Linguistics / Language and Law, Seattle, July 2007 [reviewed by abstract; presentation by Hirst].

———. "Views of text-meaning in computational linguistics." European Conference on Computing and Philosophy (E-CAP 2005), Västerås, Sweden, June 2005. [refereed by extended abstract]

Morris, Jane and ———. "Readers' perceptions of lexical cohesion and lexical semantic relations in text." *14th annual meeting of the Society for Text and Discourse*. Chicago, August 2004. [refereed by abstract; presentation by Morris]

Fazli, Afsaneh; ———; Shein, Fraser, and Nantais, Tom. "Word prediction as a writing aid." CITO Research Review, Kingston, May 2001.

Baljko, Melanie and ———. "Subjectivity in stylistic assessment: Helping computer-supported collaborative writers." Writing and Computers 10, Brighton, September 1997.

———. "The conceptual and subconceptual differentiation of near-synonyms." Second Conference on Conceptual Structure, Discourse, and Language, Buffalo, April 1996.

Glover, Angela and ———. "Automatically detecting stylistic inconsistencies in collaborative writing." European Conference on Writing and Computers, Utrecht, October 1994.

———. "Conceptual and sub-conceptual differentiation." Presented at the Workshop on cognitive and ontological foundations of knowledge engineering, First International Summer Institute in Cognitive Science, State University of New York at Buffalo, July 1994.

Ryan, Mark; DiMarco, Chrysanne; and ———. "Focus shifts as indicators of style in text." Presented at the second annual meeting of the Society for Text and Discourse, San Diego, June 1992.

DiMarco, Chrysanne and ———. "Linguistic style as constituent order." Presented at the 20th Annual University of Wisconsin-Milwaukee Linguistics Symposium, Milwaukee, Wisconsin, April 1991.

———. "Focus in reference resolution and natural language understanding." Language and Speech Conference, University of Melbourne, November 1977.

Collins, Anthony and ——. "Computer-assisted teaching of music." 46th Congress of theAus-

tralian and New Zealand Association for the Advancement of Science, Canberra, January 1975.

Professional tutorials, summer schools, etc

"Lexical similarity based on lexicographic resources", class at the ACL/HCSNet Advanced Program in Natural Language Processing, University of Melbourne, 10–14 July 2006.

"Introduction to non-statistical natural language processing", tutorial at the combined Human Language Technology Conference and 3rd Meeting of the North American Chapter of the Association for Computational Linguistics, Edmonton, May 2003.

Lecturer, Eurolan Summer Institute, Iași, Romania, July-August 2001.

"Natural language understanding and computational linguistics", a credit course of eight 100minute lectures at the First International Summer Institute in Cognitive Science, State University of New York at Buffalo, July 1994.

[With Chrysanne DiMarco] Tutorial on current approaches to natural language semantics, National Conference on Artificial Intelligence (AAAI-90), Boston, July 1990.

Workshop "Introduction to computational linguistics", sponsored by the Centre for Computing in the Humanities at the Ninth International Summer Institute for Semiotic and Structural Studies, Toronto, June 1987.

Tutorial on current approaches to natural language semantics, 24th annual meeting, Association for Computational Linguistics, New York, June 1986.

Invited lectures, talks, colloquia, etc.

Invited or keynote conference speaker

Responsible AI Summit, Montreal, 24 October 2019. "Ethics in Natural Language Processing".

Conference on Ethics in Artificial Intelligence, Ottawa, 21 February 2019. "Ethics in Natural Language Processing".

Workshop on Ethics in Natural Language Processing, 15th Conference of the European Chapter of the Association for Computational Linguistics, Valencia, 4 April 2017. "NLP Ethics in a Dangerous Time."

Workshop on Semantic Technologies for Research in the Humanities and Social Sciences (STRiX), University of Gothenburg, 24 November 2014. "Automatically identifying ideology, argumentation schemes, and discourse structure in parliamentary text."

World Affairs Conference, Upper Canada College, 4 February 2014. "Surveillance for security."

ExPoSe project inaugural meeting, Tweede Kamer, The Hague, 23 Oct 2013. "Finding positions in parliamentary text."

Workshop on Lexical Semantic Resources for NLP, NoDaLiDa 2013 (19th Nordic Conference on Computational Linguistics, Northern European Association for Language Technology), Oslo, 22 May 2013. "Lexicons versus ontologies."

7th International Conference on Natural Language Processing (ICON 2009), University of Hyderabad, Hyderabad, India, 16 December 2009. "Who decides what a text means?".

2009 Conference of die Gesellschaft für Sprachtechnologie und Computerlinguistik (German Society for Computational Linguistics), Potsdam, 30 September 2009. "Who decides what a text means?".

International Conference on Text, Speech and Dialogue (TSD 2008), Brno, Czech Republic, 12 September 2008. "The future of text-meaning in computational linguistics."

Conference on Processing Text-Technological Resources, University of Bielefeld, 14 March 2008. "Semantic distance measures with distributional profiles of coarse-grained concepts." [coauthored with Saif Mohammad]

Second International Workshop on Paraphrasing, Sapporo, Japan, July 2003. "Paraphrasing paraphrased."

Inauguration Symposium, Human Language Technology Research Institute, University of Texas at Dallas, March 2002. "Context as a spurious concept."

Third conference on Recent Advances in Natural Language Processing, Tzigov Chark, Bulgaria, September 2001. "Measures of semantic relatedness and the detection and correction of real-word spelling errors".

Second International Conference on Computational Linguistics and Intelligent Text Processing, Mexico City, February 2001, "Measures of semantic relatedness: Problems in semantic distance and intelligent spelling checking".

Japan Electronic Industry Development Association, Natural Language Processing Seminar, Kyoto, November 1998, "Near-synonymy and semantic distance: Problems in lexical choice and intelligent spelling checking".

AAAI Fall Symposium on Context in Knowledge Representation and Natural Language, Cambridge, MA, November 1997. "Context as a spurious concept".

Conference on Ontological and Linguistic Categories, University of San Marino, June 1997. "Near-synonymy and the structure of lexical knowledge".

The tenth biennial conference on AI and Cognitive Science, Society for the Study of Artificial Intelligence and the Simulation of Behaviour, Sheffield, April 1995. "Repairing conversational misunderstandings and non-understandings".

International Symposium on Spoken Dialogue, Waseda University, Tokyo, November 1993. "Repairing conversational misunderstandings and non-understandings".

ATR International Workshop on Speech Translation, Kyoto, November 1993. "Repairing conversational misunderstandings and non-understandings".

Symposium on Symbol Manipulation, Connectionism, and the Semantics of Natural Language, Helsinki, November 1991. "Ontological assumptions in knowledge representation" and "Repairing conversational misunderstandings and non-understandings".

Conference of the Canadian Society for Computational Studies of Intelligence, Ottawa, May 1990. "Planning the future of natural language research (even in Canada)".

Other invited conference participation

Discussant, 7th Conference on New Directions in Analyzing Text as Data, Boston, October 2016.

"Competitor", NLP Idol panel [discussing old research papers that should be "plucked from obscurity"] at the 2012 Conference of the North American Chapter of the Association for Computational Linguistics, June 2012.

Panelist, Workshop on Semantic Search, at Human Language Technologies: The 11th Annual Conference of the North American Chapter of the Association for Computational Linguistics, Los Angeles, June 2010.

Panelist, Translation Technology Showcase, Multilingual Translation Technology Centre, University of Toronto, January 2001.

Panelist, AAAI Symposium on Intelligent Text Summarization, Stanford, March 1998.

Invited respondent, Workshop on "Views on pragmatics: From the conventional to the computational", University of Western Ontario, October 1991.

Discussant, Workshop on Formal Aspects of Semantic Networks, Santa Catalina, February 1989.

Invited seminars and colloquia

"Classifying verbal autopsy records by cause of death using neural networks and temporal reasoning."

Österreichisches Forschungsinstitut für Artificial Intelligence (Austrian Research Institute for Artificial Intelligence), 3 July 2019. Cluster of Excellence Cognitive Interactive Technology, Universität Bielefeld, 18 March 2019. Fachbereich Informatik, Technische Universität Darmstadt, 14 March 2019.

Web and Data Science Group, Universität Mannheim, 12 March 2019.

Department of Linguistics and Philology, Uppsala University, 19 January 2018.

"Digitization of the Canadian Parliamentary Proceedings."

Big Data Workshop, Department of Comparative Politics, University of Bergen, 24 February 2017.

" Is the singularity near?"

Ideas for the World, Victoria University, 22 March 2016.

"Who decides what a text means? (and what the answer implies for computational linguistics)" Institut für Computerlinguistik, Universität Heidelberg, 13 March 2019.

Department of Computing and Information Systems, University of Melbourne, May 2017.

Language Technologies Institute, Carnegie Mellon University, February 2016.

Centre for Linguistic Theory and Studies in Probability, University of Gothenburg, March 2016.

"Automatically identifying ideology, argumentation schemes, and discourse structure in parliamentary text."

Department of Linguistics, University of Uppsala, November 2014.

"Natural language processing methods for the detection of symptoms of Alzheimer's disease in writing."

Språkbanken, University of Gothenburg, May 2013.
Department of Computer Science, University of Illinois, November 2012.
Deutsche Forschungszentrum für Künstliche Intelligenz, Berlin, September 2012.
Department of Linguistics, University of Potsdam, September 2012.
Linguistic Computing Laboratory, Sapienza University of Rome, September 2012.
College of Information Science and Technology, Nanjing University of Aeronautics and Astronautics, July 2012.
Faculty of Information Technology, Monash University, August 2011.
Department of Computer Science and Software Engineering, University of Melbourne, August 2011.
Google Research, July 2010.

"Who decides what a text means?"

Språkbanken, University of Gothenburg, May 2013.

Faculty of Computer Science and Information Technology, University of Malaysia, Sarawak, August 2009.

"Understanding text from both the user's and the writer's perspective" KMDI@13 lecture series, Knowledge Media Design Institute, University of Toronto, April 2009.

"Semantic distance measures with distributional profiles of coarse-grained concepts" [co-authored with Saif Mohammad].

Faculty of Computer Science and Information Technology, University of Malaysia, Sarawak, August 2009. Department of Systems Engineering and Engineering Management, Chinese University of Hong Kong, May 2009. Centre for Research in Intelligent Systems, Faculty of Information Technology, Monash University, April 2009. Center for Cognitive Science, University at Buffalo, November 2008.

"Lexical chains and semantic distance, within and across languages" [co-authored with Saif Mohammad].

Division of Chinese, Nanyang Technological University, April 2008.

"Fine-grained differences and similarities in meanings".

Ubiquitous Knowledge Processing Lab, Department of Computer Science, Technical University of Darmstadt, May 2009. Institut für Maschinelle Sprachverarbeitung, University of Stuttgart, May 2009. European Media Lab, Heidelberg, March 2008. Computer Laboratory, University of Cambridge, January 2008. Department of Computer Science, University of Maryland, College Park, April 2007. Department of Computer Science, National University of Singapore, February 2007. Division of Information Studies, Nanyang Technological University, February 2007. Department of Computer Science, University of Colorado at Boulder, March 2006. Information Sciences Institute, University of Southern California, January 2006. Department of Computing, Macquarie University, November 2005. School of Computer Science and Software Engineering, Monash University, November 2005. Department of Computer Science and Software Engineering, University of Melbourne, November 2005. Simon Fraser University, March 2005.

"Academic publishing in computer science".

University of Toronto, Department of Computer Science, Research skills seminar series, March 2007.

"Analyzing medical text to answer clinicians' questions". Computational Pharmacology Group, University of Colorado Health Sciences Center, February 2006.

"Views of text-meaning in computational linguistics: Past, present, and future".

Department of Linguistics, University of Colorado at Boulder, October 2005.

"Measures of semantic relatedness and the detection and correction of real-word spelling errors".

School of Informatics, University of Edinburgh, August 2003. Sharp Laboratories Europe, Oxford, August 2003. Computational Linguistics Laboratory, Nara Institute of Science and Technology, July 2003. Department of Computer Science, Concordia University, October 2002. Department of General Linguistics, University of Helsinki, August 2002. Department of Computer Science, University of Minnesota, Duluth, April 2002. Department of Computer Science, University of Pittsburgh, February 2002. Department of Computer Science, University of Alberta, November 2001.

"Semantic things to do to text".

Artificial Intelligence in Medicine, Inc., Symposium, Toronto, November 2002.

"Near-synonymy and the structure of lexical knowledge".

IBM T.J. Watson Research Center, Hawthorne, NY, May 2000. Department of Computer Science, University of Colorado at Boulder, April 2000. Center for Language and Speech Processing, Johns Hopkins University, April 1999. Department of Computer Science, University of Rochester, March 1999. Department of Electrical Engineering and Computer Science, University of Wisconsin–Milwaukee, February 1999. Natural Language Group, Department of Computer Science, Columbia University, February 1999. Center for Cognitive Science, State University of New York at Buffalo, January 1999. Microsoft Research Institute, Macquarie University, April 1998. Department of Computer Science, Monash University, April 1998. Cognitive Science "Distinguished Lecturer" Series, Carleton University, February 1998.

"Repairing conversational misunderstandings and non-understandings"

Department of Computer Science, University of Manitoba, January 1997.

Department of Computer Science, Monash University, May 1996.

- Microsoft Research Institute, Macquarie University, May 1996.
- Department of Linguistics, The Ohio State University, March 1996.

Center for Cognitive Science, State University of New York at Buffalo, February 1994.

Computing Research Laboratory and Department of Computer Science, New Mexico State University, March 1993.

"Research in computational models of style" (with Chrysanne DiMarco)

Gesellschaft für Mathematik und Datenverarbeitung, Institiut für integrierte Publikations- und Informationssysteme, Darmstadt, November 1994.

Forschungsinstitut für anwendungsorientierte Wissensverarbeitung, Ulm, November 1994. Microsoft Corporation, Redmond, Washington, July 1993

"Writing and publishing in computer science".

University of Waterloo, Department of Computer Science, Research skills seminar series, November 1992; repeated November 1993, November 1994, November 1995, November 1997.

"Ontological assumptions in knowledge representation".

Cognitive Science colloquium, University of Waterloo, April 1995.

Department of Computer Science, Monash University, May 1993. Department of Computer Science, Carleton University, March 1992.

Cognitive Science Group, Scarborough College, University of Toronto, February 1992.

Department of Computer Science, University of Chicago, February 1992.

Computing Laboratory, University of Cambridge, November 1991.

Corporate Research and Development Center, General Electric Company, Schenectady, NY, March 1991.

Department of Computer Science, State University of New York at Buffalo, October 1990.

Department of Computer Science, Virginia Polytechnic Institute and State University, April 1990.

Department of Computer Science, University of Rochester, January 1990.

Department of Computer Science, Carnegie Mellon University, December 1989.

Department of Computer Science, Brown University, October 1989.

"Knowledge representation problems for natural language understanding".

IBM T.J. Watson Research Center, Hawthorne, NY, September 1989.

Institut für Wissensbasierte Systeme, IBM Deutschland, Stuttgart, July 1989.

MCC (Microelectronics and Computer Technology Corporation), Austin, Texas, March 1989.

Information Sciences Institute, University of Southern California, February 1989.

Department of Computer Science, New York University, November 1988.

Wiener Workshop Wissensbasierte Sprachverarbeitung, Österreichische Gesellschaft für Artificial Intelligence, August 1988.

"Presuppositions as beliefs".

School of Cognitive Studies, University of Sussex, May 1988.

"Computational models of ambiguity resolution".

Department of Computer Science, University of Glasgow, June 1988. School of Cognitive Studies, University of Sussex, May 1988. Department of Computer Science, University of Essex, May 1988. Computing Laboratory, University of Cambridge, May 1988 Centre for Cognitive Science, University of Edinburgh, April 1988 Conference on semantic ambiguity, Adelphi University, April 1988. Division of Life Sciences, Scarborough College, University of Toronto, March 1988.

"The resolution of natural language ambiguity".

Department of Artificial Intelligence, University of Edinburgh, April 1988. Department of Computer Science, State University of New York at Buffalo, February 1988.

"Where parsing preferences come from".

Annual meeting of the Artificial Intelligence and Robotics Programme, Canadian Institute for Advanced Research, Banff, September 1986.

"Computational ambiguity resolution".

Computing Research Laboratory, New Mexico State University, September 1985. Department of Psychology, University of Rochester, March 1985. Department of Computer Science, University of Toronto, March 1985.

"Semantic interpretation against ambiguity".

Department of Electrical Engineering and Computer Science, Northwestern University, February 1987. Department of Computer Science, Australian National University, June 1985. Department of Psychology, Monash University, June 1985. Department of Computer Science, Monash University, June 1985. IBM T.J. Watson Research Center, Yorktown Heights, April 1985. Bell Communications Research, April 1985. AT&T Bell Laboratories, April 1985. Department of Computing and Information Science, Queen's University, February 1985. Linguistics Programme and Department of Computer Science, University of Manitoba, November 1984. Department of Computer Science, Indiana University, November 1984. Artificial Intelligence Symposium, Department of Computer Science, Columbia University, November 1984.

McLuhan Centre for Culture and Technology, University of Toronto, April 1984.

"Word sense and case slot disambiguation in formal semantics for natural language understanding".

Department of Computer Science, Carnegie-Mellon University, April 1983. Department of Computer Science, University of Toronto, January 1983. Department of Computer Science, University of Rochester, December 1982.

Other professional activities

Industry involvement

Adviser, Sonic Boomerang Inc., Toronto, 2000–04. Commercialized technology for determining sentiment towards stocks in chat and message boards.

Co-founder, Inkpot Software Inc., Toronto and Waterloo, 1997–99. Commercialized technology that used natural-language generation techniques for personalizing health information for individual consumers and patients.

Editorships

Series Editor, Synthesis Lectures on Human Language Technologies, Morgan & Claypool Publishers, 2007–2022; Springer Nature 2022–.

Book review editor and editorial board member, Computational Linguistics, 1985–2014.

Editor, *Canadian Artificial Intelligence*, 1984–1987. Editor emeritus and book review editor, 1988–1999.

Associate editor or editorial board member

Computational Intelligence, 2003–10.

IEEE Expert, 1992–96.

Machine Translation, 1989–2007.

Offices in professional organizations, etc

Co-chair, Professional Conduct Committee, Association for Computational Linguistics, 2018–2022; Past Chair, 2023.

Treasurer [elected, international level], Association for Computational Linguistics, 2008–2017 [two five-year terms]. Past Treasurer, 2018.

Past Chair, Executive Board, North American Chapter of the Association for Computational Linguistics (NAACL), 2006–2009. Previously, elected chair, 2004–2005; elected member 2001–2002, re-elected 2003–2004.

Chair, Human Language Technology Advisory Board [oversees the Human Language Technology conference series], 2002–2009.

Information Officer, Association for Computational Linguistics Special Interest Group on the Lexicon (ACL SIGLEX), 2000–2003.

Conference or workshop organizer or organizing committee member

Co-organizer, Dagstuhl seminar "Natural Language Argumentation: Mining, Processing, and Reasoning over Textual Arguments", 18–22 April 2016.

Co-organizer, 2nd Workshop on Argumentation Mining, Denver, June 2015.

Area Chair, *SEM 2015: The 4th Joint Conference on Lexical and Computational Semantics, Denver, June 2015 [coordinated reviews by 11 reviewers of 13 papers, and made final decisions].

Organizer, Workshop on Computational Approaches to Synonymy, at the Symposium on Rethinking Synonymy (organized by SKY, the Linguistic Association of Finland), Helsinki, October 2010.

Organizer, Second Workshop on Text Meaning and Interpretation, at the 42nd Meeting of the Association for Computational Linguistics, Barcelona, July 2004 (with Sergei Nirenburg).

Organizer, Workshop on Text Meaning, at the combined Human Language Technology Conference and 3rd Meeting of the North American Chapter of the Association for Computational Linguistics, Edmonton, May 2003 (with Sergei Nirenburg).

Program committee member and area chair, First meeting of the North American Chapter of the Association for Computational Linguistics, Seattle, April 2000.

Organizer, 9th International Workshop on Natural Language Generation, Niagara-on-the-Lake, Ontario, August 1998 (with Chrysanne DiMarco and Eduard Hovy).

Committee member, Canadian Society for Computational Studies of Intelligence, Conference, Toronto, May 1998.

Sub-chair, 15th International Conference on Computational Linguistics, Kyoto, August 1994.

Co-chair, Natural language sub-committee, American Association for Artificial Intelligence, National Conference, 1991.

Program committee member, Sixth annual conference, University of Waterloo Centre for the *New Oxford English Dictionary*, 1990

Member, Natural language sub-committee, American Association for Artificial Intelligence, National Conference, 1990.

Program committee, International Conference on Computers and the Humanities and conference of the Association for Literary and Linguistic Computing, Toronto, June 1989.

Program committee, Computers in the Humanities: Today's Research, Tomorrow's Teaching, Toronto, April 1986.

Program committee, Canadian Society for Computational Studies of Intelligence, Conference, 1986.

Program committee, Workshop on Theoretical Approaches to Natural Language, Halifax, May 1985.

Other major activities

Member, Discovery Grant Evaluation Group 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada, 2014–2017.

Project advisor, *Data Mining the 1918 Influenza Pandemic*, Virginia Polytechnic Institute and State University, 2012–14.

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