

Curriculum Vitae

Kees van Deemter

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1. Education and employment history

1975-1978: University of Leiden, The Netherlands. Philosophy and Theoretical Linguistics. *Kandidaatexamen* (equivalent to B.A.) (*cum laude*).

1978-1984: University of Amsterdam, Institute for Language, Logic and Information. *Doctoraal examen* (equivalent to M.A.) (*cum laude*). Published M.A. thesis on logical aspects of Generalised Quantifiers.

1981-1984: Teaching Assistant, University of Amsterdam, Institute for Language, Logic and Information.

1984-1992: Research scientist at Philips Electronics' *NatLab*, working at the Institute for Perception Research (IPO), an institute jointly governed between Philips and the University of Eindhoven. Based in the *Cognition and Communication* research group.

Sept.-Nov.1984: Full-time Software Development Course (CSO) at Philips Telecommunications, Hilversum.

1991: Ph.D., University of Amsterdam, *On the Composition of Meaning: Four Variations on the Theme of Compositionality in Natural Language Processing*. Thesis supervisor: Johan van Benthem.

1992-1993: Postdoctoral Fellow, Stanford University, Center for the Study of Language and Information (CSLI). Supported by a TALENT grant from the Netherlands Organization for Scientific Research (NWO).

1993-1997: Resumed work at Philips; first at IPO, then (from Jan. 1997) at *NatLab's*, Networked Multimedia Applications group.

1997 - 1999: Senior Research Fellow, Information Technology Research Institute (ITRI), University of Brighton, UK.

1999 - 2004: Permanent position as Principal Research Fellow (equivalent to Reader), ITRI.

2004 - present: Reader, Computing Department, University of Aberdeen.

2. Professional interests

I take an interest in the central questions of cognitive science and AI, especially relating to natural language generation and computational semantics. I have written extensively about philosophical and methodological issues relevant to these areas. Recurring themes in my work are contextualism and indeterminacy of meaning (including ambiguity and vagueness). Research contributions:

- **Natural Language Generation**

- Response generation in dialogue systems.
(SPICOS project, at Philips Electronics)
- Generation of help feedback for users of complex audio equipment.
(SPEACOP project, Philips Electronics)
- Wide-coverage algorithms for the generation of referring expressions, e.g., generation of vague descriptions, as in *'the small dog'*.
(TUNA project, University of Brighton and University of Aberdeen; follow-up project in preparation.)
- Controlling ambiguity in generated text.
Recent contributions incorporate ideas from Optimality Theory.
(COGENT project, University of Brighton)

- **Multimodality (speech and graphics)**

- Concept-to-speech generation, e.g., algorithms for locating pitch accents.
(DYD project, Philips Electronics; also earlier, at Stanford University)
- Interactive authoring of text+pictures documents, based on a logical interlingua.
(ILLUSTRATE system, WYSIWYM project, ITRI, University of Brighton)
- Controlling the behaviour of embodied conversational agents.
(NECA project, University of Brighton, University of Aberdeen)
- Expressing predicate-logical information in different modalities. (Proposal in preparation.)

- **Formal Semantics of Natural Language**

- Generalizations of anaphora: associative anaphora, etc.
(Amsterdam, Philips, Stanford, Aberdeen)
- Logics for modeling ambiguity and underspecification
(Amsterdam, Philips, Stanford, Brighton)
- Formal models of vagueness, e.g., using dynamic semantics
(Amsterdam, Stanford, Aberdeen)

3. Teaching and supervision

i. Undergraduate teaching and supervision

- As a teaching assistant, University of Amsterdam: I taught
 - Montague Grammar (with Martin Stokhof).
 - Capita Selecta Philosophy of Language (with Renate Bartsch).
 - 'The Concept of Analyticity'.
 - Research lecture series (4 lectures) on Generalized Quantifiers.
- At the University of Eindhoven: supervision of six graduation projects on Dialogue Systems.
- At the University of Brighton:
 - Over-all responsibility for teaching at ITRI (2000-2003).
 - Topics In Language Technology; module leader and lecturer (2001, 2002, 2004).

- At the University of Aberdeen:
 - CS4018, Models of Computing: section on Computability and Complexity (2004).
 - CS3511, Discrete Methods (2004-2008).
 - CS1012, Foundations of Computing I: section on Artificial Intelligence (2005, 2006).
 - CS1512, Foundations of Computing II: sections on Statistics and Logic (2006).
 - CS4026, Formal Models of Computation (2007,2008).
 - Advisor of Studies (starting Sept. 2008)

ii. Postgraduate teaching and supervision

- Teaching and course development at University of Eindhoven’s Graduate School “Perception and Technology” (1994-1997):
 - Core curriculum (4 lectures) Logic and Formal Languages
 - Module (12 lectures) on Discourse Representation Theory
 - Module (12 lectures) on Formal Theories of Context.
- Teaching and course development at University of Brighton:
 - Pragmatics of Communication, co-taught with Paul Piwek in the MA Information and Communication Spring 2002, Spring 2003, Jan 2004 (intensive 1-week module).
 - Member of development team, MSc ‘Lexical Computing’.
 - Member of development team, MA ‘Information and Communication’.
 - Development of two MA-level modules on Language Technology and Pragmatics, as part of new-route PhD programme (with Paul Piwek).
- Teaching and development for European Summer School Logic Language and Information:
 - ESSLII-2002 Introductory-level course “Formal Aspects of Natural Language Generation”, with Matthew Stone (Rutgers University, USA) Summer 2002. (5 lectures)
 - ESSLII-2004 Foundational-level course ”Vagueness: facts, models and programs”. (5 lectures)
 - LOT Winter School, University of Tilburg. Course on ”Generation of referring Expressions: the State of the Art”. (5 lectures, Jan. 2008). For details, see <http://www.csd.abdn.ac.uk/kvdeemte/LOT-2008/>.
 - HIT Summer School, Harbin Institute for Technology. Course on “Vagueness: a problem for AI”. For details, see <http://www.csd.abdn.ac.uk/kvdeemte/Harbin/>.

• Ph.D. supervision & examination

Supervision:

Co-supervisor of various Ph.D. projects in Computational Linguistics at the University of Eindhoven (1993-1997). *Principal* supervisor of

- Ivandre Paraboni, “Reference in Hierarchical Domains” (successfully concluded July 2003)
- Albert Gatt (“Generating Coherent References to Multiple Entities”, successfully concluded July 2007).
- Imtiaz Hussain Khan (Managing ambiguity in NLG, started Nov. 2005).

Ph.D. Examination:

External Examiner (‘leescommissie’), Paul Piwek, “Logic, Information, and Conversation”, Univ. of Eindhoven, 1998.

External Examiner, Sergio Santana, “The Generation of Coordinated Natural Language and Graphics Explanations”, Univ. of Salford, UK, 1998.

External Examiner, Daqing He, “Reference to Graphical Objects in Interactive Multimodal Queries”, Univ. of Edinburgh, UK, August 2000.

External Examiner Mariët Theune, “From Data to Speech: Language Generation in Context”, University of Eindhoven, Dec. 2001.

Internal Examiner, Fernando Molina, “Reasoning with Extended Venn-Peirce Diagrammatic Systems”, Mathematics Department, Univ. of Brighton, May 2001.

External Examiner, Natalia Modjeska, “The resolution of ‘other’-anaphora”, School of Informatics, University of Edinburgh, Aug. 2003.

Internal Examiner, Gemma Stapleton, “Reasoning with Spider Diagrams”, Mathematics Department, Univ. of Brighton, Summer 2004.

Internal Examiner, Helmut Meisel, “Ontology Representation and Reasoning: a Conceptual Level Approach”, Computing Department, Univ. of Aberdeen, Feb. 2005.

Internal Examiner, Nir Oren, “An argumentation framework supporting evidential reasoning with applications to contract monitoring”, Computing Department, Univ. of Aberdeen, Sept. 2007.

External Examiner, Johannes Flieger, “Gradable Adjectives and the Semantics of Locatives”, Informatics, University of Edinburgh, Jan 2009.

Internal Examiner, Ross Turner, “Geo-referenced data-to-text”. Computing Science, University of Aberdeen, Aug 2009.

4. Other professional activities.

- **(i) Membership of editorial boards etc.; reviewing**

Member, Editorial Board, *Computational Linguistics* (1995-1997).

Member, Editorial Board, *Journal of Semantics* (2001-present).

Member, Editorial Board, *Semantics and Pragmatics* (2007-present).

Member, Editorial Team, *The Baltic International Yearbook of Cognition, Logic and Communication* (2007-present).

Member, Editorial Board, *The Open Applied Linguistics Journal* (2007-present).

Member, International Consultation Group, Frameworks for Computational Semantics (FraCaS, 1994-1995).

Member, ACL/SIGSEM Working Group on the Representation of Multimodal Semantic Representation (2003-present).

Reviewer for *Linguistics and Philosophy*, *Computational Linguistics*, *Journal of Semantics*, *Journal of Language and Computation*, *Eurographics Computer Graphics Forum*, *Journal of Documentation*, *Journal of Artificial Intelligence Research*, *Research on Language and Computation*, *Journal of Philosophical Logic*.

Regular Reviewer for UK research councils (EPSRC, ESRC) and for The Leverhulme Trust. Also, for the Netherlands organisation for Scientific Research (NWO).

Panel member ‘People and Interactivity’, EPSRC, Nov. 2004.

- **(ii) Memberships of Program Committees of Conferences**

North American Association for Computational Linguistics (NAACL-2001) conference, Carnegie Mellon University, Pittsburgh, June 2001.

Association for Computational Linguistics (ACL-2001) conference, Toulouse, 2001.

Tenth International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA2002, Varna, Bulgaria, Sept. 2002).

Association for Computational Linguistics (ACL-2003) conference, Sapporo, Japan, 2003.

Int. Joint Conference on Artificial Intelligence (IJCAI-2003) Acapulco, Mexico.
Third International Conference on Natural Language Generation (INLG-2004), Careys Manor, New Forest, UK.
Association for Computational Linguistics (ACL-2004) conference, Barcelona, 2004:
Area chair *Text and Document Generation*
Empirical Methods in Natural Language Processing (EMNLP-2006). Sydney, 2006.
Association for Computational Linguistics (ACL-2007) conference, Prague, 2007:
Area chair *Summarisation and Generation*
Human Language Technologies: The Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT 2007), Rochester, NY, April 22-27, 2007.
Fifth International Conference on Natural Language Generation (INLG-2008), Salt Fork, Ohio, USA, June 2008.

- **(iii) Memberships of other Program Committees:**

Symposium ‘Context in Knowledge Representation and Natural Language’, 1997 Fall Symposium of American Association for Artificial Intelligence (AAAI), Cambridge, Mass.
Workshop on Graphical Reasoning in Expert Systems, Mexico City, March 1998.
Student Session, Association for Computational Linguistics (ACL), Hong Kong Oct. 2000.
Workshop ‘Embodied conversational agents - let’s specify and evaluate them’, in conjunction with First Int. Joint Conf. on Autonomous Agents & Multi-Agent Systems (AAMAS-2002).
Student session, 14th European Summer School in Logic and Linguistics (ESSLLI-2002), Trento, Italy, Aug. 2002 (*Area specialist for Language and Computation*).
TAL (Traitement Automatique des Langues), special issue on Linguistic Aspects of the Computational Treatment of Dialog (CFP Oct. 2001).
Fifth International Workshop on Computational Semantics (IWCS-5, Tilburg, The Netherlands), Jan. 2003.
Workshop ‘Embodied conversational characters as Individuals’, in conjunction with Second Int. Joint Conf. on Autonomous Agents & Multi-Agent Systems (AAMAS-2003).
Fourth International Workshop on Inference in Computational Semantics (ICoS-4), Nancy, September 2003.
Reviewer for ‘Sinn und Bedeutung 2004’ (SUB-9), Nijmegen, Nov. 2004
Workshop ‘Knowledge and Reasoning for Answering Questions’ (KRAQ-05, assoc. with IJCAI conference), Edinburgh 2005.
Sixth International Workshop on Computational Semantics (IWCS-6, Tilburg, The Netherlands), Jan. 2005.
Fifth International Workshop on Inference in Computational Semantics (ICoS-5), 2006.
Workshop ‘Ambiguity in Anaphora’, associated with ESSLLI-2006, Malaga, Spain.
Workshop ‘Multimodal Output generation’ (MOG 2007, funded by The British Council and The Netherlands Organisation for Scientific Research (NWO); Aberdeen, 25, 26 January 2007.
Seventh International Workshop on Computational Semantics (IWCS-7, Tilburg, The Netherlands), Jan. 2007.
MT Summit XI, Workshop “Using Corpora for Natural Language Generation: Language Generation and Machine Translation”, 11 Sept. 2007, Copenhagen. (UCNLG+MT).
Eighth International Workshop on Computational Semantics (IWCS-8), Tilburg Jan 2009.
12th European Workshop on Natural Language Generation (ENLG 2009), Athens 30-31 March

2009.

International Workshop on Graph Structures for Knowledge Representation and Reasoning. IJCAI 2009, July 2009, Pasadena, California.

- **(iv) Organisation of scientific events**

Workshop on Ambiguity and Underspecification, Stanford, Sept. 1993.

Weekly Semantics Workshop, Stanford University (1992-1993).

Weekly IPO Colloquium series (1994-1996). (With Robbert-Jan Beun)

7th ‘Computational Linguistics In the Netherlands’ meeting (CLIN-7), Eindhoven 1996.

Workshop ‘Generation of Nominal Expressions’, European Summer School in Logic and Linguistics (ESSLLI-1999), Utrecht 1999. (With Rodger Kibble)

Workshop ‘Coherence in Generated Multimedia’, associated with First International Conf. on Natural Language Generation (INLG-2000), Mitzpe Ramon, 2000. (With John Lee, Univ. of Edinburgh)

9th European Workshop on Natural Language Generation (EWNLG-2003), Budapest, April 2003 (associated with EACL-2003 conference; with Ehud Reiter and Helmut Horacek.)

Workshop ‘Computational Treatment of Anaphora’, associated with 11th Conference of the European Chapter of the ACL, (EACL-2003), Budapest, April 2003. (With Robert Dale and Ruslan Mitkov)

Workshop “Generation of Referring Expressions that are optimal for hearers”. Research workshop at The Old Townhouse, University of Aberdeen, 22 June 2007. (With Chris Mellish.)

Workshop “Production of Referring Expressions”, COGSCI conference, Amsterdam 2009. (With Emiel Krahmer, Albert Gatt, and Roger van Gompel.)

- **(v) Nonscientific**

Chairman of IPO’s representative council (’91-’92, ’95-’96).

5. Publications

(i) Journal papers

– van Deemter (1990). “Forward References in Natural Language”. *Journal of Semantics* **7**, pp.281-300.

– van Deemter (1992). “Towards a Generalization of Anaphora”. *Journal of Semantics* **9**, pp.27-51.

– van Deemter (1993). “What’s New? A Semantic Perspective on Sentence Accent”. *Journal of Semantics* **11**, pp.1-31. Also appeared as CSLI Report 93-178, Center for the Study of Language and Information, Stanford.

– van Deemter and Odijk (1997). “Context Modeling and the Generation of Spoken Discourse”. *Speech Communication* **21**, pp.101-121.

– van Deemter (1998). “Domains of Discourse and the Semantics of Ambiguous Utterances: a Reply to Gauker”. *Mind* Vol.**107**, No.426, pp.433-446.

– van Deemter (1998). “A Blackboard theory of Accenting”. *Computer Speech and Language* **12** (3).

– van Deemter (1998). “Ambiguity and Idiosyncratic Interpretation”. *Journal of Semantics* Vol. **15** (1), pp.5-36.

– Krahmer and van Deemter (1998). “On the Interpretation of Anaphoric Noun Phrases: Towards a Full Understanding of Partial Matches”. *Journal of Semantics* Vol. **15** (2), pp. 355-392.

- van Deemter and Kibble (2000). “On Coreferring: Coreference in MUC and Related Annotation Schemes”. *Computational Linguistics* **26** (4), pp. 629-637.
- van Deemter (2002). “Generating Referring Expressions: Boolean Extensions of the Incremental Algorithm” *Computational Linguistics* **28** (1), pp.37-52. March 2002.
- van Deemter and Power (2003). “High-Level Authoring of Illustrated Documents”. *Natural Language Engineering* **9** (2), June 2003.
- van Deemter (2004). “Towards a Probabilistic Version of Bidirectional OT Syntax and Semantics” In *Journal of Semantics* 21 (3), summer 2004.
- van Deemter, Krahmer and Theune (2005). “Real vs. template-based NLG: a false opposition?” *Computational Linguistics* 31(1).
- Van Deemter (2006). “Generating Referring Expressions that involve gradable properties”. *Computational Linguistics* 32 (2), 2006.
- Van Deemter, Reiter, and Horacek (2006). “Formal Issues in Natural Language Generation.” *Research on Language and Computation* 2006 (Introduction to Special Issue on Natural Language Interpretation).
- Paraboni, Van Deemter and Masthoff (2007). “Generating Referring Expressions: Making Referents Easy to Identity”. In *Computational Linguistics* 33 (2).
- Piwek and Van Deemter (2007). “Generating under Global Constraints: the Case of Scripted Dialogue”. *Research on Language and Computation* **5**(2), pp. 237-263.
- Gatt, A., and Van Deemter, K. (2007). Lexical choice and conceptual perspective in the generation of plural referring expressions. *Journal of Logic, Language and Information (JoLLI)*, 16(4): 423-443.
- Van Deemter, Krenn, Piwek, Klesen, Schroeder and Baumann (2008). “Fully Generated Scripted Dialogue for Embodied Agents”. *Artificial Intelligence Journal* 172/10, pp. 1219-1244.
- Van Deemter (2009) “Utility and language generation: the case of vagueness.” *Journal of Philosophical Logic* 38 (6).

(ii) Refereed chapters in books

- van Deemter (1985). “Generalized Quantifiers: Finite or Infinite”. In Van Benthem and Ter Meulen (eds.), *Generalized Quantifiers in Natural Language*, Foris, Dordrecht/Cinnaminson, pp.147-162.
- van Deemter (1995). “The Sorites Fallacy and the Context-dependence of Vague Predicates”. In Kanazawa, Pinon and de Swart (eds.), *Quantifiers, Deduction, and Context*. CSLI Publications, Stanford, Ca., pp.59-86.
- van Deemter (1996). “Towards a Logic of Ambiguous Expressions”. In van Deemter and Peters (eds.), *Semantic Ambiguity and Underspecification*, CSLI Publications, Stanford, pp.203-237.
- van Deemter and Peters (1996). “Introduction”. In van Deemter and Peters (eds.), *Semantic Ambiguity and Underspecification*, CSLI Publications, Stanford, pp.xv-xxiii.
- van Deemter (1999). “Contrastive stress, Contrariety, and Focus”. In Bosch and Van der Sandt (eds.), *Focus and Natural Language Processing*, Cambridge University Press, Cambridge, UK.
- van Deemter and Odijk (2000). “Formal and Computational Models of Context for Natural Language Generation”. In P. Bonzon, M. Cavalvanti and R. Nossun (Eds.), *Formal Aspects in Context*, Kluwer, Applied Logic Series no. 20.
- Paraboni and van Deemter (2002). “Towards the Generation of Document-Deictic References”. In van Deemter and Kibble (2002).

- Piwek, Power, Scott, and van Deemter (2005). “Generating Multimedia Presentations: from Plain Text to Screenplay”, O. Stock and M. Zancanara (Eds.) In *Intelligent Multimodal Information Presentation*, Vol.27. Kluwer Publishing, Dordrecht.
- van Deemter and Krahmer (2007). “Graphs and Booleans: on the generation of referring expressions”. In H.Bunt and R.Muskens (Eds.) “Computing Meaning, Volume 3”, p.397-422, Springer, Studies in Linguistics and Philosophy.

(iii) Patents

- “Architecture of Man-Machine Dialog System: SPICOS”. Patent D087296, prem. depot: 29 Oct. 1987. (Patent related to SPICOS project.)
- “Hard Keys of Soft Display in Multi-Module Device”. Patent N014124, prem. depot: 14 July 1992. (Patent related to SPEACOP project.)
- “Two-Tier Audio Signalization in Appliance”. Patent N014341, prem. depot: 7 Jan. 1993. (Patent related to SPEACOP project.)

(iv) Books, collections, editorial work

(a) Monographs and edited collections

- van Deemter (1991). *On the Composition of Meaning; Four Variations on the Theme of Compositionality in Natural Language Processing*. Ph.D. Thesis, University of Amsterdam. (iv + 153 pages) (300 copies published with the University of Amsterdam.)
- van Deemter and Peters (1996). *Semantic Ambiguity and Underspecification*. (Edited collection of 10 papers.) CSLI Publications, Stanford, Ca. (xxiii + 272 pages).
- van Deemter and Kibble (2002). *Information Sharing: Reference and Presupposition in Language Generation and Interpretation*. (Edited collection of 13 papers) CSLI Publications, Stanford, Ca. (xiii + 414 pages).
- van Deemter (2010) *Not Exactly: in Praise of Vagueness*. Oxford University Press, Jan. 2010.

(b) Proceedings and Special Issues edited

- Landsbergen, Odijk, van Deemter, and Veldhuijzen van Zanten (1996). *Computational Linguistics in the Netherlands; papers from the seventh CLIN Meeting*. University of Eindhoven. Also at <http://odur.let.rug.nl/vannoord/clin/clin.html>. (v + 224 pages)
- van Deemter and Kibble (1999). *The Generation of Nominal Expressions*. Proceedings of workshop associated with the 11th European Summer School in Logic, Language and Information (ESSLI-1999). University of Utrecht, The Netherlands.
- van Deemter and Lee (2000). *Coherence in Generated Multimedia*. Proceedings of workshop associated with 1st International Conf. on Natural Language Generation (INLG-2000, Mitzpe Ramon, Israel).
- Dale, van Deemter and Mitkov (2003). *Proceedings of the workshop on the Computational Treatment of Anaphora*, associated with EACL-2003 in Budapest. Association for Computational Linguistics, April 2003.
- Reiter, Horacek and van Deemter (2003). *Proceedings of the 9th European Workshop on Natural Language Generation (ENLG-2003)*, associated with EACL-2003 in Budapest. Association for Computational Linguistics, April 2003.
- With Reiter and Horacek. Special Issue of *Journal of Language and Computation* on Formal Issues in Natural Language Generation. Includes an editorial Preface entitled “Formal Issues in Natural Language Generation”.

(v) Reviews and miscellaneous

- Piwek and van Deemter (2000). “Communication with Computers”, *Natuur en Techniek* **68** (11), Nov. 2000.
- van Deemter, Piwek and Masthoff (2004). Contribution on Human-Computer Interaction to *Natuur en Techniek* science calendar.
- van Deemter (2003). *Review* of Gibbon, Mertins, and Moore (Eds.) “Handbook of Multimodal and Spoken Dialogue Systems: Resources, Terminology, and Product Evaluation”. *Journal of Pragmatics*.
- Piwek and Van Deemter (2006). “Constraint-based natural language generation: a suevey.” Technical Report No.2006/03, The Open University, Dept. of Computing.

(v) Papers in conference & workshop proceedings

- van Deemter (1990). “Structured Meanings in Computational Linguistics”. In Karlgren (ed.), Proc. of Computational Linguistics (COLING-90) conference, Helsinki, Finland.
- van Deemter (1990). “The Ambiguous Logic of Ambiguity”. In Van der Wouden and Sijtsma (eds.), Proc. of first Computational Linguistics In the Netherlands (CLIN) meeting, Utrecht (pp.17-32).
- van Deemter (1993). “The Role of Ambiguity in the Sorites Fallacy”. In: Dekker and Stokhof (eds.), Proc. of 9th Amsterdam Colloquium (pp.209-227), Amsterdam.
- van Deemter (1994). “Contrastive stress, Contrariety, and Focus”. In Proc. of ‘*Journal of Semantics*’ conference on Focus. Bosch and Van der Sandt (eds.), *Focus and Natural Language Processing*. (pp.39-50).
- van Deemter et al. (1994). van Deemter, Landsbergen, Leermakers, and Odijk. “Generation of Spoken Monologues by means of Templates”. In Proc. 8th Twente Workshop on Language Technology, Enschede.
- van Deemter (1995). “Semantic Vagueness and Context-Dependence”. In Working Notes of the workshop “Formalizing Context”, 1995 Fall Symposium of the American Association for Artificial Intelligence (AAAI-95).
- van Deemter (1996). “Ambiguity and Underspecification: An Overview”. In Proc. of Cognitive Science and Natural Language Processing (CSNLP-96), Dublin, Ireland.
- van Deemter et al. (1996). van Deemter, Landsbergen, Leermakers, and Odijk. “Language and Speech Generation in the DYD system”. In Proc. of SPEAK! workshop, GMD Studies, Darmstadt, Germany.
- van Deemter and Odijk (1997). “Context Modeling for Language and Speech Generation”. In Proc. of International and Interdisciplinary Conference on Modeling and Using Context (CONTEXT-97), Rio de Janeiro, Brazil, pp.75-87.
- van Deemter (1997). “Context Modeling for Speech Generation”. In Proc. of ‘Prospects for Spoken Language Technology’, Colloquium of the Institution of Electrical Engineers (IEE), Savoy Place, London, pp.2/1-2/4.
- van Deemter (1997). “Context Modeling for Language and Speech Generation”, In Proc. of workshop on Interactive Spoken Dialog Systems, ACL 1997, pp.48-52. Madrid.
- Krahmer and van Deemter (1996). “Presuppositions as Anaphors Revisited”. In J. Landsbergen, J. Odijk, K. van Deemter, and G. Veldhuijzen van Zanten (eds.), *Computational Linguistics in the Netherlands 1996; papers from the seventh CLIN Meeting*, pp.85-100.
- Krahmer and van Deemter (1997). “Presuppositions as anaphors: Towards a full understanding of partial matches”. In P. Dekker, J. van der Does, and H. de Hoop (eds.), *De Dag; Proc. of the Workshop on Definites*, pp.81-112.

- van Deemter (1997). “Ambiguity and the principle of idiosyncratic interpretation”. In R. v.d.Sandt, R. Blutner, and M. Bierwisch (eds.) ”From Underspecification to Interpretation”, Papers from the ASG Workshop, Berlin Oct.31-Nov.2 1996. Working Papers of the Institute for Logic and Linguistics, IBM Germany, pp.91-111.
- Krahmer and van Deemter (1997). “Partial Matches and the Interpretation of Anaphoric Noun Phrases”. In P. Dekker, M. Stokhof, and Y. Venema (eds.), Proc. of 11th Amsterdam Colloquium, ILLC, University of Amsterdam, pp.205-210.
- van Deemter (1998). “Representations for Multimedia Coreference”. In Proc. of Workshop on Linguistic Coreference, held in conjunction with the First International Conf. on Language Resources and Evaluation. Granada.
- van Deemter and Power (1998). “Coreference in Knowledge Editing”. In Proc. of Workshop on The Computational Treatment of Nominals, held in conjunction with Coling/ACL, Montreal, pp.56-60.
- van Deemter (1998). “Representations for Multimedia Coreference”. In Proc. of Workshop on Combining AI and Graphics for the Interface of the Future, held in conjunction with ECAI’98, Brighton, UK, pp.1-9.
- van Deemter (1998). “Retrieving Pictures for Document Generation”. In Proc. of Fourteenth Workshop on Language Technology (TWLT 14), University of Twente, pp.117-128.
- Kibble et al. (1999). Kibble, Power, and van Deemter. “Editing Logically Complex Discourse Meanings”. In Proc. of Third International Workshop on Computational Semantics (IWCS-99), Jan. 1999, Tilburg, The Netherlands, pp.147-162.
- van Deemter (1999). “Document Generation and Picture Retrieval”. In Proc. of Third International Conference on Visual Information Systems (VISUAL99), Amsterdam.
- Paraboni and van Deemter (1999). “Issues for the Generation of Document Deixis”. In E.André et al. (Ed.), *Deixis, Demonstration and Deictic Belief in Multimedia Contexts*, Procs. of workshop associated with the 11th European Summer School in Logic, Language and Information (ESSLI), Utrecht.
- van Deemter and Kibble (1999). “What is coreference, and what should coreference annotation be?”, ACL workshop on Coreference and its applications , University of Maryland.
- Poesio et al (1999). Poesio, Henschel, Hitzeman, Kibble, Montague, and van Deemter. “Towards An Annotation Scheme For Noun Phrase Generation”, Proc. of the EACL Workshop on Linguistically Interpreted Corpora. Bergen.
- van Deemter and Power (1999). “Inclusion of Picture Sequences in Generated Documents”, in P.Barahona and J.J.Alferes (Eds.), Procs. of 9th Portuguese Conference on Artificial Intelligence, Évora. Springer Lecture Notes in Artificial Intelligence.
- van Deemter et al. (1999). van Deemter, Krahmer, and Theune. “Plan-based *vs.* template-based NLG: a false opposition?”, in Procs. of *May I Speak Freely?*, workshop associated with 23rd German Conference on Artificial Intelligence, Bonn.
- Kibble and van Deemter (2000). “Coreference Annotation: Whither?”, in Maria Gavrilidou et al. (Eds), Procs. of 2nd International Conf. on Language Resources and Evaluation, Athens.
- van Deemter and Power (2000). “Authoring Multimedia Documents using WYSIWYM Editing”, in Procs. of COLING-2000 conference, pp. 222-228.
- van Deemter (2000). “Generating Vague Descriptions”, in Procs. of First International Conf. on Natural Language Generation (INLG-2000), Mitzpe Ramon, Israel.
- van Deemter and Power (2000). “Multimedia Document Authoring using WYSIWYM Editing”, in Procs. of workshop Coherence in Generated Multimedia, associated with First International Conf. on Natural Language Generation (INLG-2000), Mitzpe Ramon.
- van Deemter (2001). “Generating Referring Expressions: Beyond the Incremental Algorithm”, in Procs. of 4th International Conf. on Computational Semantics (IWCS-4), Tilburg.
- van Deemter and Halldórsson (2001). “Logical Form Equivalence: the Case of Referring Expressions Generation”. In Procs. of 8th European Workshop on Natural Language Generation (EWNLG-2001), associated with ACL-2001, Toulouse.

- Cahill et al. (2001). Cahill, Carroll, Evans, Paiva, Power, Scott, and van Deemter. "From RAGS to RICHES: exploiting the potential of a flexible generation architecture". In Procs. of ACL-2001, Toulouse.
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- Gatt, A., van der Sluis, I., and van Deemter, K. (2007b). Evaluating algorithms for the generation of referring expressions using a balanced corpus. In Proceedings of the 11th European Workshop on Natural Language Generation, ENLG-07.
- Kees van Deemter, Albert Gatt. Content determination in GRE: evaluating the evaluator, Using Corpora for Natural Language Generation: Language Generation and Machine Translation (UCNLG+MT), (MT Summit XI).
- Gatt, A. and van Deemter, K. Incremental generation of plural descriptions: Similarity and partitioning, Proceedings of the Conference on Empirical Methods in Natural Language Processing, EMNLP-CoNLL (Prague).
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- Madalina Croitoru and Kees van Deemter (2007). Conceptual Graphs for Generating Referring Expressions. 15th Int. Conf. on Conceptual Structures. Sheffield, July 2007.
- Kees van Deemter and Albert Gatt (2007). Content Determination in GRE: Evaluating the Evaluator. In Proc. of MT Summit XI, Workshop “Using Corpora for Natural Language Generation: Language Generation and Machine Translation” (UCNLG+MT), 11 Sept. 2007, Copenhagen.
- Van der Sluis, Gatt and van Deemter (2007) Evaluating the Generation of Referring Expressions: Going beyond toy domains. In proceedings of Recent Advances in Natural Language Processing (RANLP 2007), Borovets, Bulgaria, 27-29 Sept. 2007.
- Imtiaz Hussain Khan, Kees van Deemter, Graeme Ritchie (2008). Generation of Referring Expressions: Managing Structural Ambiguities, 22nd International Conference on Computational Linguistics (COLING-8) (Manchester, 18-22 August 2008): pages 433-440.
- Imtiaz Hussain Khan, Kees van Deemter, Graeme Ritchie, Albert Gatt, Alexandra Cleland (2009). A hearer-oriented evaluation of referring expression generation. Proc. of 12th European Workshop on Natural Language Generation (ENLG-2009), Athens, Greece.
- Kees van Deemter (2009) What Game Theory can do for NLG: the case of vague language. Keynote paper, 12th European Workshop on Natural Language Generation (ENLG-2009), Athens, Greece.
- Albert Gatt and Kees van Deemter (2009) Generating plural NPs in discourse: Evidence from the GNOME corpus. In Procs. of COGSCI workshop “Production of Referring Expressions”, Amsterdam, July 2009.
- Kees van Deemter and Albert Gatt (2009) Beyond DICE: measuring the quality of a referring expression. In Procs. of COGSCI workshop “Production of Referring Expressions”, Amsterdam, July 2009.
- Kees van Deemter (to appear). Vagueness Facilitates Search. To appear in Proceedings of the 17th Amsterdam Colloquium, Amsterdam, December 2009.

6. Invited presentations (selection)

Invited departmental research seminars in the US (including Carnegie Mellon University, Ohio State University at Columbus, Stanford University, University of Arizona at Tucson), UK (including the Universities of Aberdeen, Brighton, and Edinburgh, the University of London (Goldsmiths College), Open University), and The Netherlands (Universities of Amsterdam, Groningen, Tilburg).

“A Semantic Perspective on Sentence Accenting”. Invited talk for Conference on Logic, Language, and Information, organized by European Research Council, Espinho, Portugal, 11-16 Dec. 1994.

“A Six-point Program for dealing with Ambiguity”, panel discussion, International Workshop on Computational Semantics (IWCS-95), Tilburg University, 20 Dec. 1994.

“What is Anaphora?”. Invited talk for Workshop of the European Linguistic Research and Engineering (LRE) Program ‘Computational Discourse’. Berg en Dal, The Netherlands, 23 Jan. 1995.

“Context Modeling for Natural Language Generation”. Address to final Review Meeting of the FraCaS project, Univ. of Edinburgh, 23 Feb. 1996.

“Semantic Representations for Pictures and Text”. Opening address to the Third International Workshop on Computational Semantics (IWCS-99), Tilburg University, 13 Jan. 1999.

“Generators of Referring Expressions: Virtues and Vices”. ‘International Workshop on Reference and Coherence in discourse: Formal, Functional and Cognitive approaches’, Utrecht, January 10-12, 2001.

“RRL: a Rich Representation Language for the Generation of Multimodal Presentations” (co-authored with P.Piwiek). Invited talk for international working group on multimodality, organised by ACL’s special interest group on Computational Semantics (SIGSEM). Tilburg, 14 Jan 2003.

“Computational Generation of Referring Expressions”, Symposium on Natural Language Production, Hamburg, Germany, 11-13 June 2003.

Invited commentator, workshop on Presupposition Accommodation, Ohio State University, Columbus, Ohio, Oct. 2006.

Invited commentator for the ACL-SIGSEM/ISO-TDG workshop on Multimodal Information, Tilburg University, Jan. 2005. Keynote speaker at 12th European Workshop on Natural Language Generation, Athens, Greece, March 2009. (See conference publications.)

Invited address on Vagueness to the Center for Cognitive Sciences and Semantics in Riga, Latvia.

7. Research grants obtained

NWO Talent research grant, Sept.1992-Oct.1993.

grant from the Netherlands Organization for Scientific Research (NWO) for postdoctoral fellowship at CSLI, Stanford (21,000 US Dollar).

EC project NECA, Oct.2001–May 2004.

Principal Investigator of ‘A Net Environment for Embodied Emotional Conversational Agents’. European IST project, led by University of Vienna, aimed at improving the behaviour of generated lifelike agents. ITRI’s share of the grant equals 250,284 Euros. (Proposal no. IST-2000-28580). See <http://www.itri.bton.ac.uk/projects/neca/>.

EPSRC project TUNA, Oct.2003–Nov2006.

Principal Investigator on the (220,000 pounds) project ‘Towards a UNified Algorithm for the generation of referring expressions’ (TUNA. Project funded by the Engineering and Physical Sciences Research Council (EPSRC, Proposal no. GR/S13330/01). See <http://www.itri.brighton.ac.uk/~Kees.van.Deemter/TUNA-index.html>

EPSRC project COGENT Oct.2003–Nov2006.

Co-Investigator on the project ‘COntrolled Generation of Text’ (COGENT, Autumn 2003–Autumn 2006). Jointly held between University of Brighton (approx. 210,000 pounds) and University of Sussex (210,000 pounds).

EPSRC project “Affecting People with Natural Language” 2007-2011. Co-Investigator on the Platform Grant of this name, awarded to the Aberdeen Natural Language Generation group. (650,000 pounds).

8. Other Projects

The SPICOS (Siemens Philips Ipo COntinuous Speech recognition and understanding project) project (1984-1989). Precompetitive research cooperation between Siemens, of Germany, and Philips, of the Netherlands. The research focused on the design of a dialogue system that gave spoken answers to spoken questions. **Contributions:** *Dialogue management, Noun Phrase interpretation, Answer Generation.*

The SPEACOP (Self-Promoting and -Explanatory Audio COntrol Panel) project (1989-1991), focusing on improving the usability of consumer electronics products. **Contributions:** *Generation of spoken help messages; Analysis of user-system interaction protocols; Task-Action Grammars.*

The DYD (Dial Your Disc) project (1993-1996). DYD is a browsing interface for teleshopping, focusing on a domain of music CD's. (Mozart's complete instrumental work.) The interface uses generated speech which blends in with the music. **Contributions:** *Generation of monologues; accent location algorithm.*

WYSIWYM (in connection with the EPSRC-funded projects GNOME (1997-2000, Generation of NOMinal Expressions) and ICONOCLAST (1997-2000, Integrating CONstraints On LAYout and STyle). **Contributions:** *Control of coreference relations in edited Knowledge Bases; inclusion of pictures in generated documents; coordination of Brighton activities in GNOME (with Donia Scott).*

EPOCH (Excellence in Processing Open Cultural Heritage) Network of Excellence under European Framework 6. **Contributions:** *Leading ITRI's work on multilingual generation (Apr. – Oct. 2004).*

Kees van Deemter, Oct. 2009.