

## Dr. Nancy L. Green

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### Selected Publications

(Last updated April 24,2024)

#### Topic Key:

**R** Rhetoric

**E** Ethics

**IS** International Studies

**AMS** Argument Mining Scientific Literature

**A** Argumentation

**NA** Narrative

**NLG** Natural Language Generation

**EA** Educational Applications

**HC** Healthcare

**IG** Information Graphics

**DU** Discourse Understanding

### Selected Publications

(listed by year - open-access works at end of file)

#### Under review

Nancy L. Green. Deontological Argumentation: Argumentation Schemes and Rhetorical Devices. **E R A**

#### 2024

Nancy L. Green. An Analysis of some Ethical Argumentation about Genetically Modified Food. *Argument and Computation* 15(1): 1-20. **E R A AMS**

#### 2023

Nancy L. Green. RST and Practical Reasoning Argumentation Schemes. *Computational Models of Natural Argument (CMNA2023)*. CEUR-WS.org/Vol-3614/paper1.pdf (10 pages) **R A**

Nancy L. Green. Deontological Argumentation Schemes. *Computational Models of Natural Argument (CMNA2023)*. CEUR-WS.org/Vol-3614/paper5.pdf (5 pages) **E R A**

Nancy L. Green. The Use of Antithesis and Other Contrastive Relations in Argumentation. *Argument and Computation* 14(1):1-16. **R A AMS**

#### 2021

Nancy L. Green. Argumentation Schemes for Computational Models of Natural Argument: From Genetics to International Relations to Science Policy to AI Ethics. *Argument and Computation* 12(3):397-416. **R E IS AMSEA HCNLG**

Nancy L. Green and L. Joshua Crofts. A First Experiment Using ILP for Argument Mining. *Computational Models of Natural Argument (CMNA 2021)*. CEUR-WS.org/Vol-2937/paper7.pdf. **AMS**

Nancy L. Green. Some Argumentative Uses of the Rhetorical Figure of Antithesis in Environmental Science Policy Articles. *Computational Models of Natural Argument (CMNA 2021)*. CEUR-WS.org/Vol-2937/paper3.pdf. **R AMS**

Nancy Green. An AI Ethics Course Highlighting Explicit Ethical Agents. In *Proceedings of the 2021 AAAI/ACM Conference on AI, Ethics, and Society (AIES '21)*, May 19–21, 2021, Virtual Event, USA. ACM, New York, NY, USA, 6 pages. **EA E**

Nancy L. Green. My Research Relevant to the Argument Knowledge Graph Workshop. (Abstract). First Workshop on Argument Knowledge Graphs (ArgKG2021). <https://tinyurl.com/argkg2021-nancy-green> **AMS**

## 2020

Nancy L. Green. Recognizing Rhetoric in Science Policy Arguments. *Argument and Computation* 11(3): 257-268. DOI: 10.3233/AAC-200504 **R EA A**

Nancy L. Green and L. Joshua Crotts. Argument Schemes for AI Ethics Education. *Computational Models of Natural Argument (CMNA 2020)*, 41-50. CEUR-WS.org/Vol-2669/paper5.pdf. **EA A E**

Nancy L. Green and L. Joshua Crotts. Towards Automatic Detection of Antithesis. *Computational Models of Natural Argument (CMNA 2020)*, 69-73. CEUR-WS.org/Vol-2669/paper9.pdf **R**

## 2019

Nancy L. Green. Anticipatory Thinking with Argument Schemes. In *Proc. of the 2019 AAAI Fall Symposium: Cognitive Systems for Anticipatory Thinking*. Washington D.C., Nov. 7-9, 2019. <http://ceur-ws.org/Vol-2558/> **A IS**

Nancy L. Green, Michael Branon, and Luke Roosje. Argument Schemes and Visualization Software for Critical Thinking about International Politics. *Argument and Computation* 10(1):41-53. **EA A IS**

## 2018

Nancy L. Green. Towards Mining Scientific Discourse Using Argumentation Schemes. *Argument and Computation*. 9(2):121-135. DOI 10.3233/AAC-180038. **AMS A**

Nancy L. Green. Proposed Method for Annotation of Scientific Arguments in Terms of Semantic Relations and Argument Schemes. In *Proc. Fifth Workshop on Argumentation Mining*, Nov. 1, 2018, at Empirical Methods in Natural Language Processing (EMNLP 2018), Association for Computational Linguistics. **AMS A**

Nancy L. Green, Kevin Walker, Somya Agarwal. Improving Formative Feedback on Argument Graphs. In *Proc. 31<sup>st</sup> Int. Florida Artificial Intelligence Research Society*

Conference (FLAIRS 31), Melbourne, FL, May 21-23, 2018. Palo Alto, AAAI Press, 447-450. EA A HC

## 2017

Nancy L. Green. Argumentation Scheme-Based Argument Generation to Support Feedback in Educational Argument Modeling Systems. *Int. J. of AI in Education*. September 2017, Volume 27, Issue 3, pp. 515–533. EA HC A

Green, Nancy L. Argumentation Mining in Scientific Discourse. In *Proc. 17<sup>th</sup> Workshop on Computational Models of Natural Argument (CMNA 17)*, co-located with Int. Conf. on AI and Law, London, UK July 16, 2017. CEUR Workshop Proceedings (CEUR-WS.org), Vol-2048, 7-13. AMS A

Green, Nancy L. Argument Schemes for Critical Thinking on Current Events. In *Proc. 17<sup>th</sup> Workshop on Computational Models of Natural Argument (CMNA 17)*, co-located with Int. Conf. on AI and Law, London, UK July 16, 2017. CEUR Workshop Proceedings (CEUR-WS.org), Vol-2048, 38-42. IS EA A

Green, Nancy L. Manual Identification of Arguments with Implicit Conclusions Using Semantic Rules for Argument Mining. In *Proc. Fourth Workshop on Argumentation Mining*, September 8, 2017, held at Empirical Methods in Natural Language Processing (EMNLP 2017), Association for Computational Linguistics. p. 73-78. AMS A

Camille Barot, Michael Branon, Rogelio E. Cardona-Rivera, Markus Eger, Michelle Glatz, Nancy Green, James Mattice, Colin M. Potts, Justus Robertson, Makiko Shukonobe, Laura Tatesian, Brandon R. Thorne, and R. Michael Young. 2017. Bardic: Generating Multimedia Narrative Reports for Game Logs. In *Working Notes of AIDE2017 Workshop on Intelligent Narrative Technologies*, Snowbird, UT, October 2017. (8 Pages). NLG NA

## 2016

Green, N. L. 2016. Implementing Argumentation Schemes as Logic Programs. In *Proc. 16<sup>th</sup> Workshop on Computational Models of Natural Argument (CMNA2016)* at Int. Joint Conference on AI (IJCAI 2016), New York. CEUR-WS.org/Vol-1876. AMS A

Green, N. L. On Recognizing Argumentation Schemes in Formal Text Genres. Abstract in E. Cabrio, G. Hirst, S. Villata and A. Wyner (Eds.), *Natural Language Argumentation: Mining, Processing, and Reasoning over Textual Arguments (Dagstuhl Seminar 16161)*, April 17-22, 2016. <http://dx.doi.org/10.4230/DagRep.6.4.80>. Full report here: <http://libres.uncg.edu/ir/uncg/clist.aspx?id=599>. AMS A

## 2015

Green, N.L. 2015. Identifying Argumentation Schemes in Genetics Research Articles. In *Proc. Second Workshop on Argumentation Mining. Conference of the North American*

Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL HLT 2015), May 31-June 5, 2015, Denver, Colorado, USA.

<<http://aclweb.org/anthology/W/W15/#0500>> AMS A

Green, N.L. 2015. Annotating Evidence-Based Argumentation in Biomedical Text. In *Proc. 2015 Int. Workshop on Biomedical and Health Informatics, IEEE Int. Conf. on Bioinformatics and Biomedicine (BIBM 2015)*, Washington, D.C, Nov. 9-12, 2015, IEEE Computer Society Press. AMS A

## 2014

Green, N. L. 2014. Argumentation for Scientific Claims in a Biomedical Research Article. In Cabrio, E., Villata S., and Wyner, A. (Eds.) *ArgNLP 2014: Frontiers and Connections between Argumentation Theory and Natural Language Processing*, Forli-Cesena, Italy, July 21-25, 2014, CEUR Workshop Proceedings, Vol-1341. Available online: <<http://ceur-ws.org/Vol-1341/>>. AMS A

Nancy Green. 2014. Towards Creation of a Corpus for Argumentation Mining the Biomedical Genetics Research Literature. *Proceedings of the First Workshop on Argumentation Mining*, Baltimore, Maryland, USA, June 26, 2014. Association for Computational Linguistics, 2014. <<http://aclweb.org/anthology/W/W14/#2100>> AMS A

Pamela Jordan, Nancy Green, Chistopher Thomas and Susan Holm. 2014. TBI-DOC: Generating Patient & Clinician Reports from Brain Imaging Data. *Proceedings of the 8th International Natural Language Generation Conference, Philadelphia, PA, USA, June 19-21*. HC NLG

## 2013

Nancy L. Green and Brian Stadler. Adding coping-related strategies to biomedical argumentation in genetic counseling patient letters. *Patient Education and Counseling*, Volume 92, Issue 2 (2013), 149-152. <http://dx.doi.org/10.1016/j.pec.2013.05.001> HC NLG A

## 2012

Nancy L. Green. Argumentation and risk communication about genetic testing. *Journal of Argumentation in Context*. Volume 1, Issue 1 (2012), 113-129. Reprinted in Rubinelli, S. and Snoeck Henkemans, A.F. (Eds.) *Argumentation and Health*. Vol. 14 Benjamin Current Topics 2014. Amsterdam: John Benjamins, 113-128. HC A

Nancy L. Green, Curry Guinn, and Ronnie W. Smith. Assisting Social Conversation between Persons with Alzheimer's Disease and their Conversational Partners. *Proceedings of the Third Workshop on Speech and Language Processing for Assistive Technologies, 2012 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2012)*, Montreal, CA, June 8, 2012, 37-46. HC DU NLG NA

Nancy L. Green, Andrew Holman, Karen LaParo, and Christine Maynard. A Virtual Pre-K Classroom for Teacher Education. *Proceedings of Foundations of Digital Games 2012*,

*Workshop on Intelligent Cinematography and Editing*, Raleigh, NC, May 29, 2012. **NA**  
**EA**

Nancy L. Green. An Inquiry Learning Environment for Scientific Argumentation. *Proceedings of Fourth International Conference on Computational Models of Argument*, COMMA 2012, September 10-12, 2012, Vienna. **EA** **HC** **A**

## 2011

Nancy Green, Rachael Dwight, Kanyamas Navoraphan, and Brian Stadler. Natural Language Generation of Transparent Arguments for Lay Audiences. *Argument and Computation*. Volume 2, Issue 1 (2011), Pages 23-50. **HC** **NLG** **A**

## 2010

Nancy L. Green. Representation of Argumentation in Text with Rhetorical Structure Theory. *Argumentation*. Volume 24, Issue 2 (2010), Pages 181-196. **HC** **A**

Nancy Green. Analysis of Communication of Uncertainty in Genetic Counseling Patient Letters for Design of a Natural Language Generation System. *Social Semiotics*. Volume 20 Issue 1 (2010), Pages 77 – 86. **HC** **NLG**

Barbara Di Eugenio and Nancy Green. Emerging Applications in Natural Language Generation in Information Visualization, Education, and Health Care. In Indurkha, Nitin and Damerau Fred J. (eds). *Handbook of Natural Language Processing*, 2<sup>nd</sup> ed. Boca Raton, CRC Press, 2010, 557-575. **HC** **NLG** **IG**

## 2009

Nancy L. Green and Charles Bevan. Efficacy of Active Participation in Conversation with a Virtual Patient with Alzheimer's Disease. *Papers from 2009 AAAI Fall Symposium: Virtual Healthcare Interaction*, Arlington, Virginia from November 5-7, 2009. AAAI Press FS-09-07. **NA** **HC** **DU** **NLG**

## 2007

Nancy Green. A Study of Argumentation in a Causal Probabilistic Humanistic Domain: Genetic Counseling. *International Journal of Intelligent Systems. Special Issue: Computational Models of Natural Argumentation*. Volume 22, Issue 1 (January 2007), p. 71-93. **HC** **A**

## 2006

Stephanie Elzer, Nancy Green, Sandra Carberry, James Hoffman. A Model of Perceptual Task Effort for Bar Charts and its Role in Recognizing Intention. *International Journal on User Modeling and User-Adapted Interaction*. Volume 16, Number 1, March 2006, pp. 1 – 30. (Received James Chen 2006 Award for Best Paper.) **IG** **HC**

## 2005

Nancy Green. A Bayesian Network-Based Coding Scheme for Annotating Biomedical Information Presented to Genetic Counseling Clients. *Journal of Biomedical Informatics*. 38 (2005), 130-144. **HC** **NLG**

Stephanie Elzer, Sandra Carberry, Ingrid Zukerman, Daniel Chester, Nancy Green, and Seniz Demir. A Probabilistic Framework for Recognizing Intention in Information Graphics. *Proc. of International Joint Conference on Artificial Intelligence (IJCAI2005)*, July 2005, pp. 1042-1047. **IG** **HC**

Stephanie Elzer, Sandra Carberry, Daniel Chester, Seniz Demir, Nancy Green, Ingrid Zukerman, and Keith Trnka. Exploring and Exploiting the Limited Utility of Captions in Recognizing Intention in Information Graphics. *Proc. of Annual Meeting of the Association for Computational Linguistics*, June 2005, p. 223-230. **IG** **HC**

Nancy Green. Simulating Alzheimer's discourse for caregiver training in artificial intelligence-based dialogue systems. In Davis, Boyd H. (ed.). *Alzheimer talk, text and context: enhancing communication*. New York, NY: Palgrave Macmillan, 2005, 199-207. **NA** **HC** **DU** **NLG**

## 2004

Nancy Green. Analysis of Linguistic Features Associated with Point of View for Generating Stylistically Appropriate Text. Papers from 2004 AAAI Spring Symposium: Exploring Attitude and Affect in Text: Theories and Applications. Yan Qu, James Shanahan, and Janyce Wiebe, Program Cochairs (SS-04-07), pp. 59-62. Extended version published in Shanahan, James G., Qu, Yan, and Wiebe, Janyce (eds.), *Computing Attitude and Affect in Text: Theory and Applications*. Springer, 2005, pp. 33-40. **HC** **NLG**

Nancy L. Green, Giuseppe Carenini, Stephan Kerpedjiev, Joe Mattis, Johanna D. Moore, and Steven F. Roth. AutoBrief: an Experimental System for the Automatic Generation of Briefings in Integrated Text and Information Graphics. *International Journal of Human-Computer Studies* 2004, 61:1, 32-70. ) **IG** **NLG**

Nancy Green, William Lawton, and Boyd Davis. An Assistive Conversation Skills Training System for Caregivers of Persons with Alzheimer's Disease. Papers from AAAI 2004 Fall Symposium on Dialogue Systems for Health Communication, Timothy Bickmore Program Chair. (FS-04-04). AAAI Press, Menlo Park, pp. 44-49. **NA** **HC** **DU** **NLG**

Stephanie Elzer, Nancy Green, Sandra Carberry, James Hoffman. Incorporating Perceptual Task Effort into the Recognition of Intention in Information Graphics. *Proceedings of Diagrams 2004 - Third International Conference on the Theory and Application of Diagrams*, March 22-24, 2004, Cambridge Univ., pp. 255-270. **IG** **HC**

## 2003

Stephanie Elzer, Nancy Green, Sandra Carberry, and Kathleen McCoy. Extending Plan Inference Techniques to Recognize Intentions in Information Graphics. *Proceedings of User Modeling 2003*, p. 122-132. **IG HC**

Nancy Green and Boyd Davis. Dialogue Generation in an Assistive Conversation Skills Training System for Caregivers of Persons with Alzheimer's Disease. In *Papers from the 2003 AAAI Spring Symposium on Natural Language Generation in Spoken and Written Dialogue* (SS-03-06). AAAI Press, Menlo Park, CA, pp. 36-43. **NA HC DU NLG**

## 2002

Nancy Green and Jill F. Lehman. An Integrated Discourse Recipe-Based Model for Task-Oriented Dialogue. *Discourse Processes*, March-April 2002, 133-158. **NLG DU**

Yan Qu and Nancy Green. A Constraint-based Approach for Cooperative Information-Seeking Dialogue. *Proceedings of the Second International Natural Language Generation Conference (INLG2002)*, July 1-3, 2002, New York. pp. 136-145. **NLG DU**

Nancy Green. A Virtual World for Coaching Caregivers of Persons with Alzheimer's Disease. *Papers from the AAAI Workshop on Automation as Caregiver: The Role of Intelligent Technology in Elder Care*. AAAI Press, Menlo Park, CA, pp. 18-23. **NA HC DU NLG**

Nancy L. Green. Designing an Ontology for AI in the Narrative Arts. *Papers from the 2002 AAAI Spring Symposium on Artificial Intelligence and Interactive Entertainment*, American Association for Artificial Intelligence, March 2002, p. 39-40. **NA**

## 2001

Nancy L. Green. Autonomous Dialogue for Interactive Story Telling. *Papers from the 2001 AAAI Spring Symposium on Artificial Intelligence and Interactive Entertainment*, American Association for Artificial Intelligence. p. 46-49. **NA**

Nancy Green. An Empirical Study of Multimedia Argumentation. *Proceedings of the International Conference on Computational Systems, Workshop on Computational Models of Natural Language Arguments (CMNA 2001)*, May 2001. [Available as Springer Lecture Notes in Computer Science 2073, pp. 1009-18.] **IG A**

## 2000 - 1990

Nancy Green and Sandra Carberry. Interpreting and Generating Indirect Answers. *Computational Linguistics*, 25 (3): 389-435, September 1999. [Reprints available from <http://acl.ldc.upenn.edu/J/J99/J99-3004.pdf>] **NLG DU**

Nancy Green and Sandra Carberry. A Computational Model for Taking Initiative in the Generation of Indirect Answers. *User Modeling and User-Adapted Interaction*, 9(1/2): 93-132, April 1999. [Reprinted in *Computational Models of Mixed-Initiative Interaction*,

Susan Haller, Alfred Kobsa, and Susan McRoy, eds., Dordrecht, Netherlands, 277-316.]  
**NLG**

Nancy Green, Giuseppe Carenini and Johanna Moore. A Principled Representation of Attributive Descriptions for Integrated Text and Information Graphics Presentations. *Proceedings of the Ninth International Workshop on Natural Language Generation*, Niagara-on-the-Lake, Ontario, Canada, August 5-7, 1998, pp.18-27. **NLG IG**

Nancy Green and Jill Fain Lehman. An Application of Explanation-Based Learning to Discourse Generation and Interpretation. *Papers from 1998 AAI Spring Symposium on Applying Machine Learning to Discourse Processing*, pp. 33-40. AAI Press, Menlo Park, CA. **NLG DU**

Nancy Green and Sandra Carberry. A Hybrid Reasoning Model for Indirect Answers. *Proceedings of the 32nd Annual Meeting of the Association for Computational Linguistics*, pp. 58-65, June 1994. [Reprint available from <http://acl.ldc.upenn.edu/P/P94/P94-1009.pdf>] **DU**

Nancy Green and Sandra Carberry. Generating Indirect Answers to Yes-No Questions. *Proceedings of the 7th International Workshop on Natural Language Generation*, pp. 189-198, June 1994. **NLG**

Nancy Green and Sandra Carberry. Conversational Implicatures in Indirect Replies. *Proceedings of the 30th Annual Meeting of the Association for Computational Linguistics*, pp.64-71, 1992. [Reprint available from <http://acl.ldc.upenn.edu/P/P92/P92-1009.pdf>] **DU**

Nancy Green. Normal State Implicature. *Proceedings of the 28th Annual Meeting of the Association for Computational Linguistics*, pp.89-96, Pittsburgh, Pennsylvania, 1990. [Reprint available from <http://acl.ldc.upenn.edu/P/P90/P90-1012.pdf>] **DU**

## Open-Access Works

(AI Ethics Debate: Educational argument diagramming software with argument schemes for AI Ethics) <https://github.com/greennl/SWED> **EA A E**

(AVIZE argument diagramming software) <https://github.com/greennl/AVIZE> **EA A IS**

(Catalog of argumentation schemes and example of argument-annotated scientific article) <https://github.com/greennl/BIO-Arg> **AMS A**

(Annotated scientific article and ILP files related to Green & Crofts' CMNA21 paper in CEUR-WS.org/Vol2937/ paper7.pdf) <https://github.com/greennl/BIO-Arg-ILP> **AMS**