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Maureen Donnelly
Department of Philosophy
University at Buffalo
135 Park Hall
Buffalo, NY 14260
md63@buffalo.edu

Education:

- Ph.D. Philosophy, University of Texas at Austin, 2001
- M.A. Mathematics, Washington University, St. Louis, MO, 1992
- B.A. Mathematics, New College, Sarasota, FL, 1990

Areas of Specialization:

Metaphysics, Formal Ontology, Spatial and Temporal Relations, Bioinformatics

Dissertation:

Title: An Axiomatization of Common-Sense Geometry
Supervisor: Nicholas Asher

Research and Teaching Experience:

Assistant Professor, Department of Philosophy, State University of New York at Buffalo, 8/08-present.

Adjunct Instructor, Department of Philosophy, State University of New York at Buffalo, 8/03-5/08.

Researcher, New York State Center for Bioinformatics and Life Sciences, Buffalo, New York, 6/05-5/08.

Senior Research Assistant, Institute for Formal Ontology and Medical Information Science (IFOMIS), University of Saarland, Germany, 6/02-5/05.

Doctoral Research funded by the Fulbright Program at the Institute for Research in Computer Science and Technology (IRIT) in Toulouse, France 9/98-6/99.

PUBLICATIONS

Journal Publications (Refereed):

(available at <http://www.acsu.buffalo.edu/~md63/Publications.html>)

Donnelly M., 2011 "Using Mereological Principles to Support Metaphysics"
Philosophical Quarterly 61: 225-246.

Donnelly M., 2011 "Endurantist and Perdurantist Accounts of Persistence" *Philosophical Studies* 154: 27-51.

Donnelly M., 2010 "Parthood and Multi-location" in D. Zimmerman (ed.) *Oxford Studies in Metaphysics* 5: 203-243.

Bittner, T., M. Donnelly, and B. Smith 2009 "A spatio-temporal ontology for geographic information integration" *International Journal of Geographical Information Science (IJGIS)*, Vol. 23, 765–798.

Donnelly M., 2009 "Mereological Vagueness and Existential Vagueness" *Synthese* 168: 53-79.

Donnelly M. and Bittner T., 2009 "Summation Relations and Portions of Stuff" *Philosophical Studies* 143: 167-185.

Bittner T. and Donnelly M., 2007 "Logical Properties of Foundational Relations in Bio-Ontologies" *Artificial Intelligence in Medicine* 39: 197-216.

Donnelly M., Bittner T., and Rosse C. 2006 "A Formal Theory for Spatial Reasoning in Biomedical Ontologies" *Artificial Intelligence in Medicine* 36:1-27.

Donnelly M. 2005, "Relative Places" *Applied Ontology* 1: 55-75

Donnelly M. 2004, "A Formal Theory for Reasoning about Parthood, Connection, and Location" *Artificial Intelligence* 160: 145-172.

Bittner T., Donnelly M., and Smith B. 2004, "Endurants and Perdurants in Directly Depicting Ontologies" *AI Communications*, 13, 247-258.

Publications in Conference Proceedings (Refereed):

T. Bittner, L. J. Goldberg, and M. Donnelly, 2008, Ontology and qualitative medical images analysis. In M. Okada and B. Smith (eds.): *1st International Conference on Interdisciplinary Ontology, InterOntology08*, February 26–27, Tokyo, Japan. Proceedings, Keio University Press.

Bittner T. and Donnelly M., 2007 "A Formal Theory of Qualitative Size and Distance Relations between Regions" in C. Price (ed.) *Proceedings of the 21st Annual Workshop on Qualitative Reasoning*: 176-212.

Bittner T. and Donnelly M., 2007 "A Temporal Mereology for Distinguishing between Integral Objects and Portions of Stuff" in R. Holte and A. Howe (eds.) *Proceedings of the 22nd AAAI Conference on Artificial Intelligence*: 215-220.

Bittner T. and Donnelly M., 2006 "A Classification of Spatio-Temporal Entities Based on their Location in Space-Time" in E. Zimanyi (ed.) *Lecture Notes in Computer Science: The International Workshop on Semantic-Based Geographical Information Systems* Springer, 1626-1635.

Bittner T, and Donnelly M, 2006 " A Theory of Granular Parthood Based on Qualitative Cardinality and Size Measures" in B. Bennett and C. Fellbaum (eds.) *Formal Ontology in Information Systems. Proceedings of the Fourth International Conference*, 65-76.

Donnelly M. 2005, "Containment Relations in Anatomical Ontologies" *Proceedings: American Medical Informatics Association 2005 Annual Symposium*, eds. C. Friedman, J. Ash, and P. Tarczy-Hornoch. 206 -210.

Donnelly M. and Bittner T. 2005, "Spatial Relations among Classes of Individuals" in A. Cohn and D. Mark (eds.) *Proceedings of the Conference on Spatial Information Theory 2005*.

Bittner T. and Donnelly M. 2005, "Computational Ontologies for Parthood, Componenthood, and Containment" in L. Kaelbling (ed.), *Proceedings of the International Joint Conference on Artificial Intelligence 2005*, 382-387.

Donnelly M. 2004, "Relative Places" in A. Varzi and L. Vieu (eds.) *Formal Ontology in Information Systems. Collected Papers from the 3rd International Conference*, 249-260.

Bittner T, Donnelly M, and Smith B 2004 "Individuals, Universals, and Collections" in A. Varzi and L. Vieu (eds.) *Formal Ontology in Information Systems. Collected Papers from the 3rd International Conference*, 37-48.

Donnelly M. 2004, "On Parts and Holes--The Spatial Structure of the Human Body" in M. Fieschi, E. Coiera, and Y. J. Li (eds.) *Proceedings of the 11th World Congress on Medical Informatics (MedInfo-04)*, 351-356.

Bittner T. and Donnelly M. 2004, "The Mereology of Stages and Persistent Entities", in R. L. Mantaras and L. Saitta (eds.) *Proceedings of the 16th European Conference on Artificial Intelligence (ECAI-04)*, 283-287.

Donnelly M. 2003, "Layered Mereotopology" in G. Gottlob and T. Walsh (eds.) *Proceedings of the 18th International Joint Conference on Artificial Intelligence (IJCAI-03)*, 1269-1274.

Donnelly M. and Smith B. 2003, "Layers: A New Approach to Locating Objects in Space" in W. Kuhn, M. F. Worboys, and S. Timpf (eds.) *Spatial Information*

Theory: Cognitive and Computational Foundations of Geographic Information Science, Springer (Berlin), 50-65.

Donnelly M. 2001, "Introducing Granularity-Dependent Quantitative Distance and Diameter Measures in Common-Sense Reasoning Contexts" in C. Welty and B. Smith (eds.) *Formal Ontology in Information Systems. Collected Papers from the 2nd International Conference (FOIS-01)*, 321-332.

Referred Book Chapters:

M. Donnelly (forthcoming) "Granularity" In: H. Burkhardt, J. Seibt, and G. Imaguire (eds.) *The Handbook of Mereology*. Munich: Philosophia Verlag.

Bittner, T., M. Donnelly, L. J. Goldberg, and F. Neuhaus, 2008, "Modeling principles and methodologies—spatial representation and reasoning" In A. Burger, D. Davidson, and R. Baldock (eds.): *Anatomy Ontologies for Bioinformatics: Principles and Practice*. Springer Verlag, 307–326.

Bittner, T., Donnelly, M. and Winter, S. 2005. Ontology and semantic interoperability. In D. Prospero and S. Zlatanova (eds.): *Large-scale 3D data integration: Challenges and Opportunities*, CRCpress (Taylor & Francis), 139–160.

Edited Volumes:

Formal Ontology in Information Systems. Collected Papers from the 7th International Conference (2012) Amsterdam: IOS Press; M. Donnelly and G. Guizzardi (eds.).

Presentations at Conferences, Workshops, and Departmental Colloquia:

"Endurantist and Perdurantist Accounts of Persistence" Syracuse University Philosophy Colloquium, September 2009.

"Parthood and Multi-Location" The Third International Conference on the Ontology of Spacetime. Montreal, Quebec. June, 2008.

Bittner T. and Donnelly M. "A Temporal Mereology for Distinguishing between Integral Objects and Portions of Stuff" AAAI Conference on Artificial Intelligence. Vancouver, British Columbia. July 2007.

Bittner T. and Donnelly M. "A Temporal Mereology for Distinguishing between Integral Objects and Portions of Stuff" The Spatial and Temporal Reasoning

Workshop of the International Joint Conference on Artificial Intelligence.
Hyderabad, India. January 2007.

Donnelly M. "Containment Relations in Anatomical Ontologies"
American Medical Informatics Annual Symposium. Washington D.C. October
2005.

Donnelly M. and Bittner T. "Spatial Relations among Classes of Individuals"
Conference on Spatial Information Theory. Ellicottville, NY. September 2005.

"On Parts and Holes: The Spatial Structure of the Human Body" at the Summer
School and Workshop on Semantic Interoperability and Data Mining in
Biomedicine. Balatonfüred, Hungary. July, 2004.

"Relative Places" at the Department of Philosophy, State University of New York
at Buffalo. December, 2003.

"Relative Places" at the Department of Computer Science, Brock University, St.
Catharines, Ontario. November, 2003.

"Relative Places" at the Center for Cognitive Science, State University of New
York at Buffalo. November, 2003.

"A Formal Theory of Mereotopological and Location Relations" at the
Department of Biological Structure, University of Washington School of
Medicine, October, 2003.

"Layered Mereotopology" at Relation Day hosted by the Department of Computer
Science, Brock University, St. Catherine, Ontario. September 2003.

"Layered Mereotopology" at the Theory and Applications of Relational Structures
as Knowledge Instruments (TARSKI) annual meeting hosted by the School of
Computing, University of Leeds. January, 2003.

"Spatial Entities and Spatial Relations" at the Spacenet research laboratory of the
University of Hamburg, Germany. July 1999.

PROFESSIONAL SERVICE

Editorial Board Member (Journals): *Applied Ontology, Earth Science
Informatics Journal.*

Program Co-Chair (Conferences): The seventh international conference on
Formal Ontology in Information Systems (FOIS 2012), Graz, Austria.

Referee for (Journals): *Australasian Journal of Philosophy, Synthese, Erkenntnis, Acta Analytica, Applied Ontology, Artificial Intelligence in Medicine.*

Program Committee Member (Conferences): Formal Ontology in Information Systems (FOIS) 2010, Spatial Cognition 2008, Knowledge Representation in Medicine (KRMed) 2008, Knowledge Representation in Medicine (KRMed) 2006, Conference on Spatial Information Theory (COSIT) 2007, American Medical Informatics Annual (AMIA) Symposium 2008, American Medical Informatics Annual (AMIA) Symposium 2007.