
BIOGRAPHICAL SKETCH

Helen M. Couclelis

Professor, Department of Geography
University of California, Santa Barbara, CA 93106

805 893 2196 (phone), 805 893 3146 (fax)
cook@geog.ucsb.edu (email)

Degrees:

- 1967 MA Architect Engineer, Technical University of Athens
- 1971 Diploma, Urban and Regional Planning, Technical University of Munich
- 1977 PhD, Urban Modeling, King's College, University of Cambridge
- 1999 Honorary Doctorate (Doctor Honoris Causa), University of Utrecht, The Netherlands

Appointments:

Academic Appointments

- 1982- present, Assistant Professor to Professor, Department of Geography, University of California, Santa Barbara
- 1987, Visiting Fellow, The Woodrow Wilson School of Public and International Affairs, Princeton University
- 1981, Visiting assistant research professor, Urban Transport Group, Dept. of Civil Engineering, University of Waterloo, Ontario, Canada
- 1981, Visiting lecturer, Department of Geography, University of California, Santa Barbara
- 1981, Visiting scholar, Institute of Urban and Regional Development, University of California, Berkeley

Professional appointments

- 1977-81, Member, policy advisory group, Secretariat of the National Council for Physical Planning and the Environment, Ministry of Coordination, Athens, Greece
- 1972-73, Assistant project manager, Nigerian Urban Systems project, Doxiadis Associates, Athens, Greece
- 1971-72, Urban analyst, 15-year National Development Plan of Greece, Center for Planning and Economic Research, Athens, Greece
- 1966-68, Private architectural practice, Athens, Greece

Research and Teaching Interests

Urban and regional modeling and planning, spatial cognition and behavioral geography, geography of the information society, geographic information science.

Recent publications include work on models of urban dynamics, on the geography of the information society, and on the representation of spatial concepts and processes in both human cognition and in computers.

Selected Publications 1997-2002

Batty, Michael, Helen Couclelis, and Marc Eichen (1997). Urban systems as cellular automata. Editorial, *Environment and Planning B: Planning and Design* 24, no. 2: 159-64.

Couclelis, Helen (1997). From cellular automata to urban models: new principles for model development and implementation. *Environment and Planning B: Planning and Design* 24, no. 2: 165-74.

Couclelis, Helen (1997). GIS without computers: building geographic information science from the ground up. *Innovations in GIS - 4: Selected papers from the Fourth National Conference on GIS Research UK (GISRUK)*. editor Zarine Kemp, 219-26. London: Taylor & Francis.

Couclelis, Helen, and Jonathan Gottsegen (1997). What maps mean to people: denotation, connotation, and geographic visualization in land-use debates. *Spatial Information Theory: a Theoretical Basis for GIS. International Conference COSIT'97*. eds. Steven Hirtle, and Andrew U. Frank, 151-62. Lecture Notes in Computer Science, no. 1329. Berlin: Springer-Verlag.

Craglia, Massimo, and Helen Couclelis, Eds. (1997). *Geographic information research: bridging the Atlantic*. London: Taylor & Francis.

- Takeyama, Masanao, and Helen Couclelis (1997). Map dynamics: integrating cellular automata and GIS through Geo-Algebra. *International Journal of Geographical Information Science* 11, no. 1: 73-91.
- Couclelis, Helen (1998). Aristotelian spatial dynamics in the age of GIS. In *Spatial and temporal reasoning in geographic information systems*. eds. M. Egenhofer, and R. G. Golledge, 109-18. New York: Oxford University Press.
- Couclelis, Helen (1998). Geocomputation and space. *Environment and Planning B: Planning and Design* , no. 25th Anniversary Issue: 41-47.
- Couclelis, Helen (1998). Geocomputation in context. In *GeoComputation: a primer*. Editors Paul Longley, Susan Brooks, Rachael McDonnell, and Bill Macmillan, 17-29. New York: Wiley.
- Couclelis, Helen (1998). Worlds of information: the geographic metaphor in the visualization of complex information. *Cartography and Geographic Information Systems* 25, no. 4: 209-20.
- Couclelis, Helen (1999). Space, time, geography. *Geographical Information Systems: principles, techniques, management, and applications*. 2d ed., eds. Paul Longley, Michael Goodchild, David Maguire, and David Rhind Vol. 1. New York: Wiley, 29-38.
- Couclelis, Helen (1999). Spatial information technologies and societal problems. *Geographic information research: transatlantic perspectives*, eds. Massimo Craglia, and Harlan Onsrud. London: Taylor & Francis, 15-24.
- Couclelis, H. and Getis, A. (2000). Conceptualizing and measuring accessibility within physical and virtual spaces. In *Information, place, and cyberspace: issues in accessibility*, eds. Donald Janelle and David Hodge. Berlin: Springer-Verlag, 15-20.
- Couclelis, H. (2000). From sustainable transportation to sustainable accessibility: can we avoid a new 'tragedy of the commons'? In *Information, place, and cyberspace: issues in accessibility*, eds. Donald Janelle and David Hodge. Berlin: Springer-Verlag, 341-356.
- Couclelis, H. (2002). Modeling frameworks, paradigms and approaches. In *Geographic Information Systems and Environmental Modeling*, eds. K. C. Clarke, B. O. Parks, and M. P. Crane. Prentice Hall, Upper Saddle River, NJ, pp. 36-50.
- Couclelis, H. (2002). Living with uncertainty: GIS and the limits of geographic knowledge. In *Accuracy 2002: 5th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*, eds. G. Hunter and K. Lowell. University of Melbourne -RMIT- Universite Laval, pp. 281-289.

Selected Keynote Lectures, 1996-2002

- 1996 GIS Research UK (GISRUK), 4th Annual Conference, Canterbury, UK. The Taylor & Francis Lecture: *GIS Without Computers: Building Geographic Information Science from the Ground Up*.
- 1998 Inaugural conference of the Association of Geographic Information Laboratories of Europe (AGILE), Enschede, The Netherlands.. The UNIGIS Lecture: *GIS Stands for Geographic Information and Society*.
- 1998 Geocomputation '98, Bristol, UK. The Pion Lecture: *Geocomputation in Context*.
- 2000 Ida Beam 2000 Public Lecture, University of Iowa.. *From sustainable transportation to sustainable accessibility: can we avoid a new 'tragedy of the commons'?*
- 2001 EURESCO Conference on Digital Cities, Granada, Spain. *The social construction of the digital city*.
- 2002 Accuracy 2002, Melbourne, Australia. 5th International Conference on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences. *Living with uncertainty: GIS and the limits of geographic knowledge*.
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