

BIOGRAPHICAL SKETCH

KEITH C. CLARKE

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Professional Preparation

1977 B.A. Honours in Geography and Economics, Middlesex Polytechnic, London, England.

1979 M.A. in Geography, The University of Michigan, Ann Arbor, MI

1982 Ph. D. in Geography (Analytical Cartography), The University of Michigan, Ann Arbor, MI.

Appointments

2006- Member, Board on Earth Science and Resources, National Academy of Sciences

2006- Member, Committee on Research and Exploration, National Geographic Society

2006-10 Chair, Mapping Science Committee, National Academy of Sciences

2004-6 Member, Mapping Science Committee, National Academy of Sciences

2001-6 Chair, Department of Geography, University of California, Santa Barbara

1998- Director (Santa Barbara) National Center for Geographic Information and Analysis

1996- Professor, University of California, Santa Barbara.

1994-6 Chair, Department of Geology & Geography, Hunter College.

1992 Research Physical Scientist, Office of Research, National Mapping Division, USGS.

1991-96 Professor, Hunter College and the CUNY Graduate School and University Center.

1987-91 Associate Professor, City University of New York Graduate School and Univ. Center.

1986-91 Associate Professor, Hunter College

1982-86 Assistant Professor, Hunter College.

1980-82 Instructor, The University of Michigan.

1980-82 Director of Computing, Center for Research on Social Organization, U. Michigan.

Synergistic Activities

- ◆ Recipient, John Wesley Powell Award. (USGS highest civil honor) 2005
- ◆ Chair, Communications Committee, American Congress on Surveying and Mapping. 2002-2005
- ◆ President, Cartography and Geographic Information Society 2000-1
- ◆ North American Editor, International Journal of Geographical Information Systems. (1992-97)
- ◆ Educator of the Year Award 2003, University Consortium on GIS.

Selected Publications (Last 3 years)

- Clarke, K. C., Gazulis, N., Dietzel, C. K. and Goldstein, N. C. (2007) A decade of SLEUTHing: Lessons learned from applications of a cellular automaton land use change model. Chapter 16 in Fisher, P. (ed) *Classics from IJGIS. Twenty Years of the International Journal of Geographical Information Systems and Science*. CRC Press. Boca Raton, FL. pp. 413-425.
- Dillemath, J., Goldsberry, K. and Keith C. Clarke. (2007) Choosing the Scale and Extent of Maps for Navigation with Mobile Computing Systems. *Journal of Location Based Services*. vol 1., no. 1, pp. 46-61.
- Slingsby, A., Dykes, J., Wood, J. and Clarke, K. C. (2007) Interactive Tag Maps and Tag Clouds for the Multiscale Exploration of Large Spatio-temporal Datasets *International Symposium on GeoVisualization and Information Visualization, gIV07* (IEEE), pp. 497-504.
- Wood, J., Dykes, J., Slingsby, A. and Clarke, K. C. (2007) Interactive visual exploration of a large spatio-temporal data set: reflections on a geovisualization mashup. *IEEE Transactions on Visual Computing and Graphics*,. 13, 6, pp. 1176-83.
- Grossner, K. E., Goodchild, M. F. and Clarke, K. C. (2008) Defining a digital earth system. *Transactions in GIS*. Vol.12, no.1, pp. 145-160.
- Clarke K. C. (2009). Geospatial Intelligence. in Kitchin R, Thrift N (eds) *International Encyclopedia of Human Geography*, Vol. 4, pp. 466-467. Oxford: Elsevier.
- Ford, A, Clarke, K. C. and Raines, G. (2009) Modeling Settlement Patterns of the Late Classic Maya Civilization with Bayesian Methods and Geographic Information Systems. *Annals of the Association of American Geographers*, vol. 99, no. 3, pp. 1-25.
- Beekhuizen, J. and Clarke, K. C. (2010) Toward accountable land use mapping: Using geocomputation to improve classification accuracy and reveal uncertainty *Int. Journal of Applied Earth Observation and Geoinformation*, vol. 12, no. 3, pp. 127-137.
- Guan, Qingfeng and Clarke, Keith C.(2010) A general-purpose parallel raster processing programming library test application using a geographic cellular automata model. *Int. Journal of Geographical Information Science*, vol. 24, no. 5, pp. 695-722.
- Nie, Qinghua and Keith C. Clarke (2010) *Environmental Statistics with MATLAB* Beijing: Higher Education Press.
- Clarke, K. C. (2011) *Getting Started with Geographic Information Systems*. 5th edition. Pearson-Prentice Hall. Prentice Hall Series in Geographic Information Science.
- Ren, L., Clarke, K. C., Zhou, C., Ding, L. and Li, G. (2010) Geometric Rectification of Satellite Imagery with Minimal Ground Control Using Space Oblique Mercator Projection Theory. *Cartography and Geographic Information Science*. Accepted (October issue).