



Center for Spatially Integrated Social Science

# **Web-based Infrastructure for Spatially Integrated Social Science**

**Donald Janelle**

University of California, Santa Barbara

Association of America Geographers

Los Angeles, 22 March 2002



## Center for Spatially Integrated Social Science

### Spatial Resources for the Social Sciences

**The CSISS Mission** recognizes the growing significance of space, spatiality, location, and place in social science research. It seeks to develop unrestricted access to tools and perspectives that will advance the spatial analytic capabilities of researchers throughout the social sciences. CSISS is funded by the [National Science Foundation](#) under its program of support for infrastructure in the social and behavioral sciences.

#### CSISS News

[GIScience 2002 Call for Participation](#)

Core Programs	Learning Resources	Spatial Resources	Spatial Tools
These six infrastructure programs form the core of the Center's activities.	These introductory materials include <a href="#">CSISS Classics</a> and <a href="#">select video clips</a> from the CSISS summer workshops.	CSISS has compiled e-journals, bibliographies, and other spatial resources for the social sciences.	Here's where you'll find information about software for the exploration and analysis of spatial data.
Search Engines	CSISS Events	Community Center	About CSISS
Try CSISS's custom search engine to find spatial analysis resources on the Internet.	Here's where you'll find information and registration for workshops, conferences and specialist meetings.	Join one of the forums on topics such as spatial equity, spatial externalities, and spatial econometrics.	CSISS people, programs and the original NSF proposal are described here.

## **Learning Resources**

### **CSISS Classics**

**Lecture Outlines**

**ARGUS Activities &  
Readings**

**Spatial Analysis & GIS**

**NCCGIA Core Curriculum**

**Course Syllabi**

**Workshop Video Clips**

**Papers & Presentations**

# Learning Resources

[www.CSISS.org](http://www.CSISS.org)

An archive of exercises, lectures, demos

- *CSISS Classics*
- Course Syllabi (by discipline)
- GIS Core Curriculum 1990 / 2000
- Intro Lectures in Spatial Social Science/  
S Sweeney
- Spatial Analysis and GIS/ M Goodchild
- Video clips of CSISS Workshops

# Center for Spatially Integrated Social Science

## CSISS Classics

The foundations of spatial analysis span many disciplines over many generations of researchers and practitioners. **CSISS Classics** provides summaries and illustrations of major contributions to spatial thinking in the social sciences. Primary emphasis is given to research before 1980, with an attempt to capture and acknowledge the repository of spatial thinking in the social sciences for the last few centuries. The summaries, along with key references, are intended as guides for those interested in exploring intellectual inheritance from previous generations.

Your help is requested in suggesting topics, key papers, and schools of thought that should be represented in this collection - please send these to the **CSISS Classics** editor, Don Janelle [janelle@geog.ucsb.edu](mailto:janelle@geog.ucsb.edu).

# CSISS CLASSICS: SPATIAL INNOVATORS AND INNOVATIONS BEFORE 1980

## Kelley, Florence

**Title:** Slums of the Great Cities Survey Maps, 1893

**Spatial Concept:** pattern analysis mapping of social conditions, maps for social advocacy

**Discipline:** Demography, Public Health, Sociology, Urban Studies, Womens Studies

## Kurath, Hans

**Title:** Linguistic Atlas of the United States

**Spatial Concept:** geographical linguistics, isogloss mapping, speech areas and speech boundaries

**Discipline:** Anthropology & Archaeology, Area Studies, Linguistics

## Mayhew, Henry

**Title:** London Labour and the London Poor, 1861

**Spatial Concept:** choropleth mapping, ecological relationship

**Discipline:** Criminology, Sociology, Other

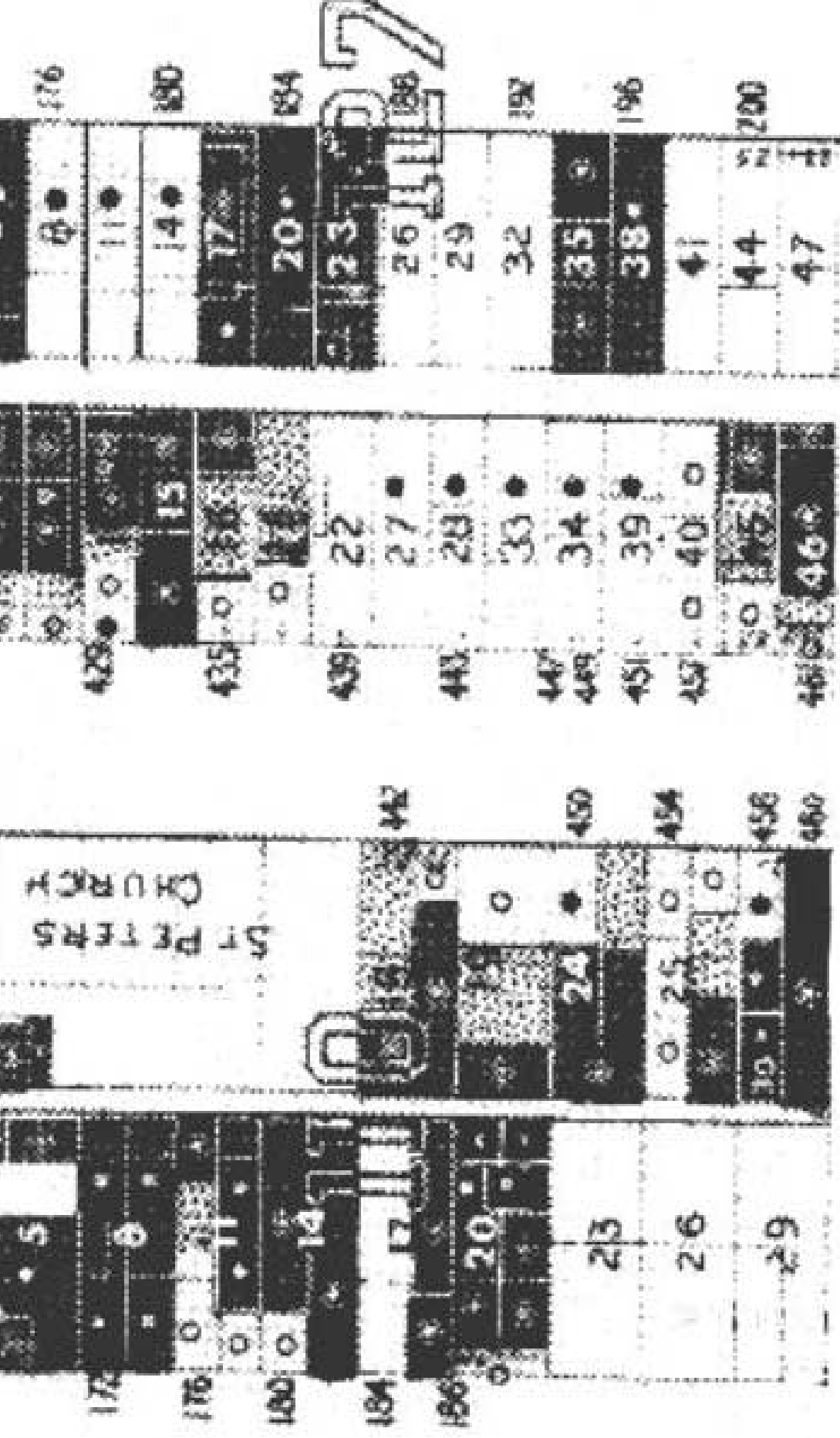
## Florence Kelley, Slums of the Great Cities Survey Maps, 1893

### *Background* Kelley, Florence (1859-1932)

Florence Kelley, the daughter of Congressman William D. Kelley, was one of the most dedicated social activists of the Progressive Era. A graduate of Cornell University and Northwestern University Law School, Florence Kelley was drawn into social activism after studying for a short period at the University of Zurich. In Europe she read the work of Karl Marx (1818-1881) and Friedrich Engels (1820-1895) and became an ardent socialist. She later translated into English Engels' *The Condition of the Working Class in London* (1887) and corresponded with Engels for the remainder of his life. When Kelley returned to the United States she married a socialist labor leader, but the marriage was short lived. In 1891 Kelley divorced and moved to Chicago where she became a



Library of Congress, Washington D.C.



A section of the Hull House Wage Map of Chicago. The original maps were published in color and the map key appears below.

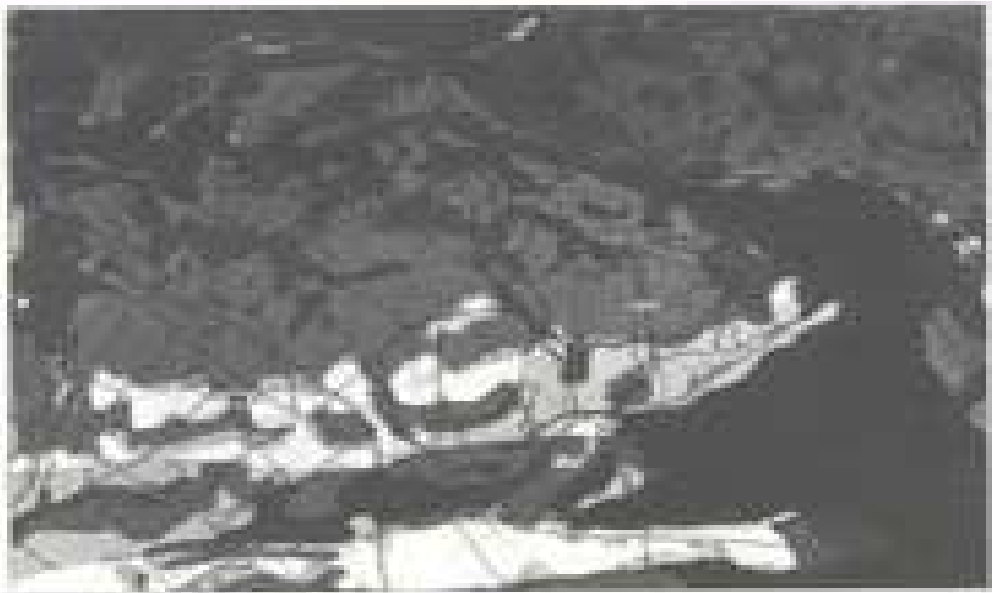


# Ian McHarg: Overlay Maps and the Evaluation of Social and Environmental Costs of Land Use Change

## By John Corbett

*Background* Ian McHarg (1920-2001) was one of the true pioneers of the environmental movement. Born near the gritty, industrial Scottish city of Glasgow, he gained an early appreciation of the need for cities to better accommodate the qualities of the natural environment that until then had largely been shunned. After serving in World War II, McHarg went to the United States to attend Harvard University, where he picked up degrees in landscape architecture and city planning. He was responsible for the creation of the Department of Landscape Architecture at the University of Pennsylvania. McHarg, however, would not be confined to the halls of academia. In 1960, McHarg hosted his own show, "The House We Live In," on the CBS television network, an early effort to publicize discussion about humans and their environment.





PHOTOGRAPH BY JEFFREY M. HARRIS



PHOTOGRAPH BY JEFFREY M. HARRIS



PHOTOGRAPH BY JEFFREY M. HARRIS



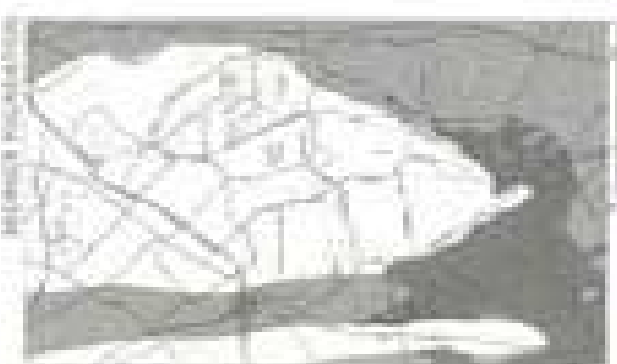
PHOTOGRAPH BY JEFFREY M. HARRIS



PHOTOGRAPH BY JEFFREY M. HARRIS



PHOTOGRAPH BY JEFFREY M. HARRIS



PHOTOGRAPH BY JEFFREY M. HARRIS

*To heal the earth: Selected writings of Ian L. McHarg*. Edited by Ian L. McHarg and Frederick R. Steiner. (Washington, D.C.: Island Press, 1998).

*A quest for life: An autobiography*. (New York: John Wiley & Sons, 1996).

"Man and environment." Leonard J. Duhl and John Powell, editors. *The urban condition*. (New York, NY: Basic Books, pp. 44-58, 1963).

"A comprehensive highway route selection method." *Highway research record*, 246:1-12 (1968).

"Ecological determinism." F. Fraser Darling and John P. Milton, editors. *Future environments in North America*. (Garden City, NY: The Natural History Press, pp. 526-38, 1966).

## *Related Works*

Klopatek, J. M. and Gardner, R. H., editors. *Landscape ecological analysis: Issues and applications*. (New York, NY: Springer, 1999).

Lyle, John Tillman. *Design for human ecosystems: Landscape, land use, and natural resources*. (New York, NY: Van Nostrand Reinhold, 1985).

## *Links*

[Ian McHarg reflects on the past, present and future of GIS Design with nature is still important](#)

[The use of GIS on the Colorado Plateau](#)

## Syllabi From Leading Researchers in Spatial Social Science

*Anthropology • Archaeology • Criminology • Demography • Economics  
Environment & Resources • Public Health • History • Political Science  
Spatially Integrated Social Science • Sociology • Urban Studies & Urban Planning*

This page provides links to reading lists of courses taught by leading researchers in spatial social science, organized by discipline. The links are provided with the permission of the researchers themselves. In most cases these researchers are not directly affiliated with CSISS; in all cases the researchers are considered by CSISS to be leaders in the analysis of space within their discipline.



## **Global Positioning Systems**

<http://www.css.cornell.edu/courses/465/css465.html>

This course is an introduction to navigation-grade Global Positioning System (GPS) instruments used in agriculture and environmental science. Emphasis is placed on instrument familiarization, field data collection and processing, real-time and post-differential correction, and GPS-GIS integration. The course is designed to be a very practical, hands-on experience with GPS instruments used for field-based survey and mapping of plots, fields, boundary conditions, and other bio-physical features. The Course Objectives are 1) Familiarization of GPS instruments in a field setting; 2) Collection of position data and feature boundary definition; 3) Correction of position data using various methods; 4) Transfer of data from a GPS environment to a GIS environment; 5) Estimation of area and perimeter of delineated feature(s); and 6) Production of maps depicting spatial location and extent of delineated feature(s)

**Arthur J. Lembo, Jr. and Stephen D. DeGloria, Department of Crop and Soil Sciences, Cornell University**

## Search Engines

Internet Search

Site Search

Social Science Data  
Search

Spatial Tools Search  
Engine

Literature Search

# The CSISS Web Search Engines

- Building databases of web sites – Thunderstone's Taxis Webinator – web walking and indexing software (seeded with ~1500 terms related to spatial social science)
- About 36,000 websites / updated weekly
- User Searchable via keyword entries or access via directories
- Under development: a spatial search tools for accessing **Data Archives** via links to a gazetteer – part of CSISS place-based search project
- Spatial analysis software **Tools Search Engine**



Web Search

GIS, GPS, remote sens\* Search

1 through 10 of 178 of the best matching documents.

Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)>>

**THUNDERSTONE**

[Help](#)

1: [The GIS Portal! Great GIS Net Sites! GPS / Remote Sensing / Space](#)

of SIS **GIS** Jobs **GIS** Data and Software Library Online **GIS** Classic **GIS** Sites **GIS** WWW Resources **GIS** Software Companies **GIS** Books Colleges, Universities and Research Institutes Breaking **GIS** News! The Best Web Resource Lists! **GIS** / Mapping Companies **GIS** Services **GIS** Related Sites U.S. Federal Government Agencies State/Provincial Government Agencies Municipal/Local Government Agencies Worldwide Government Agencies Non Governmental Organizations **GPS / Remote Sensing / Space** **GPS / Remote Sensing / Space** New since last update | Lowrance Positioning Resources Ltd Airborne





## [The Asian GIS Portal](#)

Asian **GIS** Portal Site Map | Click here to make this your Default Home Page | Recommend this Site | Subscribe Site Update **GIS** News Career Alert Tender Alert Email Education Books Glossary History of Maps Publications Tenders Tutorials Policy Application Agriculture and Soil Archaeology Biodiversity - Ecology Business Geographics Environment Forestry GIS Geology Geomorphology Health LIS Military Mountains Natural Hazards Oceanography Urban Planning Utility Water Resources Technology **GIS** **GPS** **Remote Sensing** Image Processing Cartography & Map Publishing Data Conversion Digital Photogrammetry Synthetic Aperture Radar (SAR) Modelling and **Sensors** Internet **GIS** Aerial Photography & Surveying News 18/04/2001 Indonesia to launch telecom satellite in 2003 FleetBoss's cost effective fleet management solutions MapInfo augments Market Analysis Solutions with Census 2000 Data Terrasolid's TerraScan LIDAR Processing Software now available from Airborne 1 Pixures' Online Storefront for Digital ... <http://www.gisdevelopment.net/>

### 9: [Education Strategies for Integrating Metadata](#)

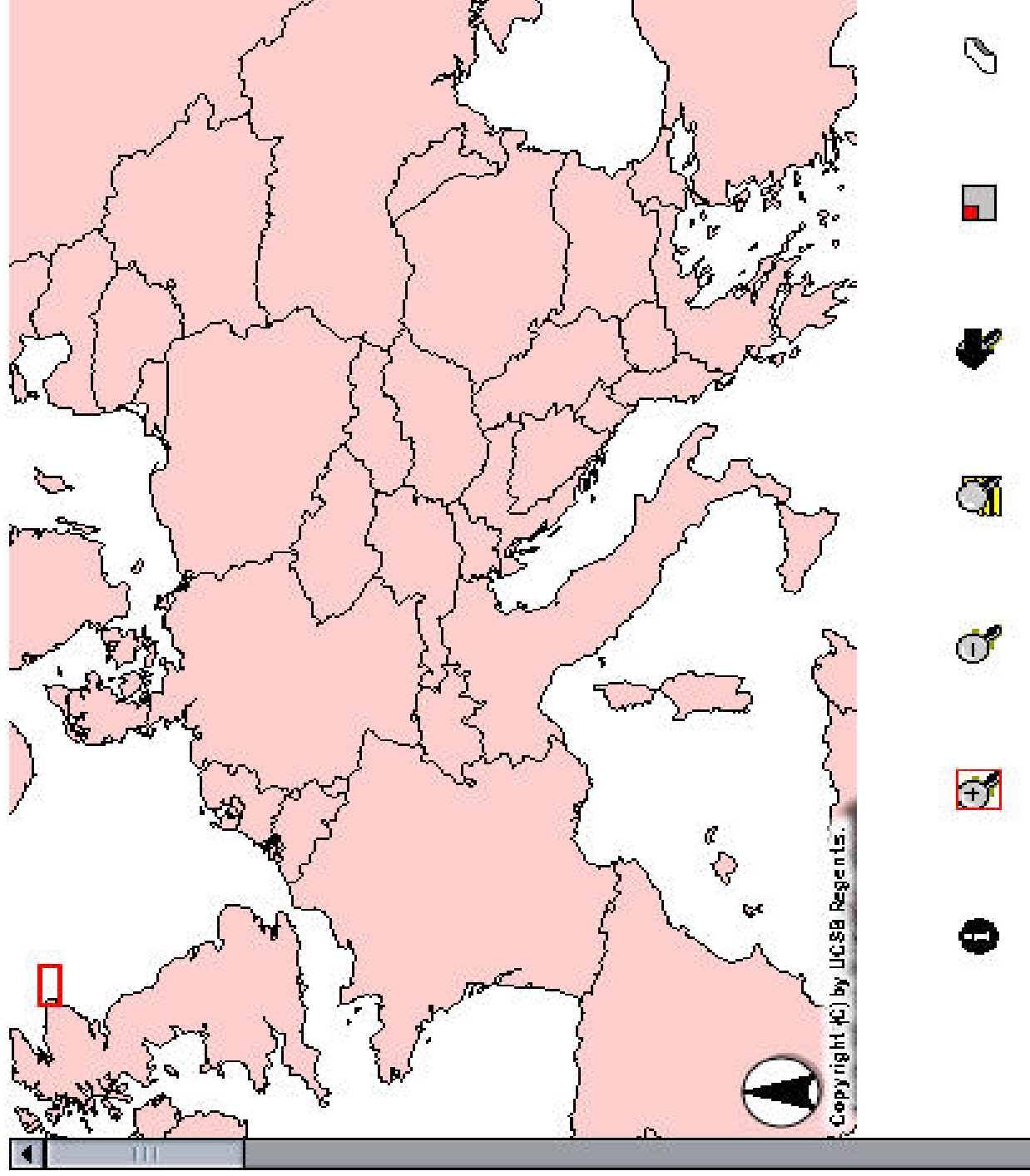
Metadata Education Project Metadata education strategies by: Course type Course topic Learning Outcome Course Types Strategies for a "Geographic Information (Spatial Concepts)" course. This is a



# Social Science Archive Search Tool

Check the box next to the name or names of countries you wish to research.

- Afghanistan
- Albania
- Algeria
- Angola
- Antarctica
- Argentina
- Armenia
- Australia
- Austria
- Azerbaijan
- Bangladesh
- Belgium
- Belize
- Benin
- Bhutan
- Bolivia



Search

Austria

go

For:

On:  Australia SSDA  ICPSR  Swedish Archive  UK Data Archive   
CSISS Web Search

## Top results from the Swedish Archive

1 : [SE- EFTABAROMETER AUTUMN 1992: AUSTRIA, FINLAND AND SWEDEN --](#)

European Community matters. The respondent had to indicate how well informed she/he was about the EC, an mass media about ...

2 : [SE- WESTERN EUROPEAN ECOLOGICAL DATA --](#)

WESTERN EUROPEAN ECOLOGICAL DATA Västeuropeiska ekologdata SSD\_0258 Status: 2A Princip Department of Political Science Umeå University ...

3 : [SE- EUROBAROMETER 43.0 AND 43.1: DRUG ABUSE AND AIDS, MARCH-MAY 1995 --](#)

Eurobarometer surveys, Eurobarometer 43.0, March-April 1995 (SSD 0507) and Eurobarometer 43.1: Intern April-May 1995 (SSD 0508). ...

4 : [SE- EUROBAROMETER 48.0: HOLIDAY TRAVEL, OCTOBER-NOVEMBER 1997 --](#)

Parliament scheduled in June of 1999. The principal topic of the survey was the experiences respondents report Respondents were asked ...

5 : [Untitled](#)

DEMOGRAPHIC CHARACTERISTICS Demographic Characteristics Demographic and economic analysis statistics 1952 Parish statistics ...

Top results from the **Swedish Archive**

1 : [SE- DEMOCRATIZATION OF PUBLIC TRANSPORTATION SINCE 1820 --](#)

The study deals with the variations of caravan traffic, i.e. the number of departed horses per year (1855-1906) and in ...

2 : [SE- PRIVATE LONG DISTANCE TRAVEL MODE SELECTION --](#)

Transportforskningsdelegationen (1982): Den resandes ensak. Stockholm 1982:1 Start year: 19

3 : [SE- IMPORT - EXPORT 1974 --](#)

IMPORT - EXPORT 1974 Import - Export 1974 SSD\_0253 Status: 2A Principal investigator  
 transport Abstract: This file contains ...

4 : [SE- GENERAL PUBLIC AND PRIVATE MOTORISM 1988 --](#)

What car producers ought to concentrate on. How to collect information when to purchase a car  
 place of living, ...

5 : [SE- SERVICE SURVEY: OLD-AGE CARE IN FIVE TYPE MUNICIPALITIES 1993 --](#)

Local citizen survey 1991 (SSD 0306). The survey was directed towards persons aged 65-85.  
 status: size of household...

Search for this:

visuali\*ation, population

Submit

## Literature Search of Spatial Analysis in the Social Sciences

- Database of ~ 10,000 entries
- Searches abstracts and keywords
- Retrieves bibliographic references
  
- Derived from *Econ Lit*, *Sociological Abstracts*, *Social Sciences Citation Index*, *Humanities Citation Index*, *MLA International Bibliography*, *Anthropological Literature*, *Historical Abstracts*, *America: History and Life*, and *California Digital Library*

# Research Areas for CSISS Literature Search

Spatial econometrics

GIS in the social sciences

Map making & Visualization

Spatial simulation & spatial-temporal dynamics

Spatial optimization & spatial interaction modeling



**Search for this:**

1 through 10 of 102 matching documents, best matches first.

Results by: [7 HUNDREDS](#)

Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#)

[next>>](#)

- 1: **Population** Growth, Distribution and Density Changes, and Urbanization in Zimbabwe: A Preliminary Assessment following the 1982 Census  
1987 . Davies, D. Hywel .African Urban Quarterly v2n(1): 13-23.  
[Get Citation](#), [View Record](#), [Find Similar](#)
- 2: The **Visualization** of Local Urban Change across Britain  
1995 . Dorling, D. .Environment and Planning B-Planning & Design v22n(3): 269-290.  
[Get Citation](#), [View Record](#), [Find Similar](#)
- 3: The Geography of a **Population** Mass-Escape from the Tel-Aviv Area During the Gulf-War  
1992 . Efrat, E. .Geographical Journal v158: 199-206.  
[Get Citation](#), [View Record](#), [Find Similar](#)
- 4: An American Diaspora? Patterns of Jewish **Population** Distribution and Change, 1971-1980  
1990 . Newman, William M. and Peter L. Halvorson .Review of Religious Research v31n(3): 259-267.

## Spatial Tools

**Spatial Tools Search Engine**



**Select Tools**

**Links to Portals**




## CSISS Tools Clearinghouse

The **CSISS Tools Clearinghouse** is intended to grow into a robust collection of spatial analysis software, software links, and links to information about tools for spatial analysis. The development of these tools is a lively research area and the goal of this clearinghouse is to provide up-to-date information on available tools. The clearinghouse is comprised of:



### [Search Engine](#)

 Search a continuously updated, comprehensive index of the CSISS Select Tools and Links to Portals.

### [Select Tools](#)

Browse through tools particularly suited to the analysis of spatial phenomena.

### [Links to Portals](#)

A listing of useful collections of software tools for anyone interested in Spatial Analysis, or those looking for specific tools.

### **CSISS Tools**

*Forthcoming* - a collection of spatial toolboxes developed by Luc Anselin.

## Spatial Tools Search Engine

'spatial autocorrelation'

Submit

Word count: 'spatial autocorrelation': 35  
Documents 1 - 10 of about 35 matching the query, best matches first.

### [Analysis of spatial autocorrelation of USGS 1:250000 digital elevation models](#)

Jay Lee and Louis K. Marion Department of Geography Kent State University Kent, OH 44242-0000  
paper describes the results of performing numerical analyses of spatial autocorrelation on 1:250,000  
<http://spatialodyssey.ursus.maine.edu/gisweb/spatdb/gis-lis/gi94064.html> - size 14K -

### [Analysis of spatial autocorrelation of U.S.G.S 1:250,000 Digi...](#)

Analysis of spatial autocorrelation of U.S.G.S 1:250,000 Digital Elevation Models Author: Jay Lee  
Elevation Models) Format: html Date: 18/09/01 Time: 13:52:57 Remote Name: 202.28.179.1 Rem  
[http://www.ai-geostats.org/online\\_papers/papers/0000004d.htm](http://www.ai-geostats.org/online_papers/papers/0000004d.htm) - size 1K -

### [Globals](#)

Moran's I and Geary's c are well known tests for spatial autocorrelation. They represent two specific  
measures of spatial autocorrelation. Moran's I is produced by standardizing the spatial autocovariance  
<http://xerxes.sph.umich.edu:2000/ppa/doc/globals/Globals.htm> - size 6K -

### [Nearest Neighbor Analysis](#)

See Anselin(1995) for a complete discussion of Local Moran's I and LISAs. Input data file, v  
each point. The maximum study distance (d). The number of bands within d. The weights matrix file  
<http://xerxes.sph.umich.edu:2000/ppa/doc/Local/Local1.htm> - size 7K -

Openshaw

Submit

Word count: Openshaw: 6

Documents 1 - 6 of 6 matching the query, best matches first.

## **[Redefining the spatial support of environmental data in the Regional HydroEcologic](#)**

Regional HydroEcological Simulation System (Coughlan and Dungan in press). The pr  
and precipitation defined at points; leaf area index defined by remotely sensed images  
[http://www.ncgia.ucsb.edu/conf/SANTA\\_FE\\_CD-ROM/sf\\_papers/dungan\\_jennife](http://www.ncgia.ucsb.edu/conf/SANTA_FE_CD-ROM/sf_papers/dungan_jennife)

## **[Visualizing Spatial Data Uncertainty Using Animation](#)**

Published in Computers in GeoSciences, Vol. 23, No. 4, pp. 387-395, 1997. The issu  
Be the first in your research lab, company, or university to get one! Visualizing Spatial  
<http://everest.hunter.cuny.edu/~chuck/CGFinal/paper.htm> - size 37K -

## **[Redefining the spatial support of environmental data in the R...](#)**

Regional HydroEcological Simulation System (Coughlan and Dungan in press). The pr  
and precipitation defined at points; leaf area index defined by remotely sensed images  
[http://www.ai-geostats.org/online\\_papers/0000030.htm](http://www.ai-geostats.org/online_papers/0000030.htm) - size 1K -

## **[Modeling Elevation Uncertainty in Geographical Analyses](#)**

Uncertainty in Geographical Analyses. Proceeding of the International Symposium on  
Modeling Elevation Uncertainty in Geographical Analyses by Charles R. Ehlerchlaeger

## CSISS Select Tools

Below is a list of *Spatial Analysis Tools*. CSISS researchers have chosen these tools for their usefulness in aiding the exploration and analysis of spatial phenomena in the social sciences. This list is by no means complete and, it is hoped, will continue to grow with input from the research community. Inclusion on this list is not an endorsement by CSISS. If you have comments, have found an error, or would like to nominate a tool for inclusion please contact the Tools Manager, Luc Anselin at [anselin@uiuc.edu](mailto:anselin@uiuc.edu).

All websites on this page have been comprehensively indexed by the [CSISS Spatial Tools Search Engine](#).

### Cartographic Data Visualizer (CDV)

<http://www.kinds.ac.uk/kinds/cdv.htm>

A visual, interactive, graphic front end for analyzing spatial datasets.



### ClusterSeer

[http://www.terraseer.com/csr/clusterseer\\_features.html](http://www.terraseer.com/csr/clusterseer_features.html)

ClusterSeer provides statistics for evaluating disease clusters in space and time.

### CrimeStat

<http://www.icpsr.umich.edu/NACJD/crimestat.html>

A spatial statistics program for the analysis of crime incident locations.

### Fragstats

<http://www.umass.edu/landeco/research/fragstats/fragstats.html>

Computation of wide variety of landscape metrics for categorical map patterns.

## Spatial Tools Links to Portals

Below is a list of *portals*, i.e., collections of links, found useful to researchers of spatial phenomena in the social sciences. All portals listed here have been comprehensively indexed and are searchable at the [CSISS Spatial Tools Search Engine](#).

If you have comments, have found an error, or would like to nominate a portal for inclusion please contact the Tools Manager, Luc Anselin at [anselin@uiuc.edu](mailto:anselin@uiuc.edu).

## Spatial Analysis Tools



[AI-Geostats](#). Large collection. The central place for GIS and Spatial Statistics on the web.

[Social Science Statistical Lab](#). Spatial Analysis links for social scientists from Yale University.

[Spatial Analysis Starting Points](#). Additional GIS and Spatial Analysis Links from Georgia.

## Math and Statistics archives with spatial content

[StatLib](#). Perhaps the largest statistical site on the web.

# CSISS 2002 Summer Workshops

## [Accessibility in Space and Time: A GIS Approach](#)

Columbus, OH

July 22-26, 2002

*Selected participants will receive a \$500 scholarship towards expenses*

**[TAKE ME TO THE APPLICATION FORM](#)**

## [Map Making and Visualization of Spatial Data in the Social Sciences](#)

Santa Barbara, CA

July 22-26, 2002

*Selected participants will receive a \$500 scholarship towards expenses*

**[TAKE ME TO THE APPLICATION FORM](#)**

## [Introduction to Spatial Pattern Analysis in a GIS Environment](#)

Santa Barbara, CA

July 29 - August 2, 2002

# Summer 2002 Workshops Application Form for Workshops and Scholarships

Application for CSISS-Sponsored Workshops and Scholarships requires completion of the form below.

## Select Workshop:

- Accessibility in Space and Time: A GIS Approach
- Map Making and Visualization of Spatial Data in the Social Sciences
- Introduction to Spatial Pattern Analysis in a GIS Environment

**First Name:**

**Last Name:**

**Affiliation:**

**Address:**





## Map Making and Visualization of Spatial Data

We offer here several video clips and slide shows produced from Dr. Fabrikant's workshop, [Map Making and Visualization of Spatial Data](#). The original workshop was taped in July 2001 by UCSB Production Services, under the direction of Ray Tracy. The workshop featured five lecturers: Dr Barbara P. Buttenfield, Dr Keith C. Clarke, Dr Dan Dorling, Dr Waldo Tobler, and Dr Sara Fabrikant. The summer course introduced spatial information design and geographic visualization for the Social Sciences. Sessions covered principles of scientific visualization, graphical design, and thematic mapping. Applications for this popular workshop far exceeded the number of slots that were available, and so CSISS is seeking alternative ways to present the information.



**Dr. Sara Fabrikant**  
Workshop Coordinator

The intellectual property rights associated with these presentations belong to the lecturers, Dr Fabrikant, Dr Clarke, Dr Buttenfield, Dr Tobler, and Dr Dorling. Use of these clips is restricted to educational and instructional uses and must not be sold or distributed in whole or in part without written permission from the presenters and Center for Spatially Integrated Social Science.

The videos and slide shows offered on this page were edited by Nina Brown to present key concepts by workshop lecturers. You will need the [RealPlayer™](#) to view these clips. The Real SlideShow™ files are smaller than the Real Video™ files, so they will display more quickly:

### **The Cartographic Process**

by Dr Barbara P. Buttenfield

[Real SlideShow](#)

10:22 min

### **Perspectives on Cartographic Communication**

by Dr Barbara P. Buttenfield

[Real SlideShow](#)

12:54 min

### **Principles of Perceptual Organization**

by Dr Sara Fabrikant

[Real SlideShow](#)

10:11 min

### **Mapping Volumetric Data**

by Dr Barbara P. Buttenfield

[Real SlideShow](#)

10:15 min

[Real Video](#)

8:57 min

40 MB

### **Dot Maps**

by Dr Sara Fabrikant

[Real SlideShow](#)

9:03 min

### **The Advantages of Cartograms**

by Dr Dan Dorling

[Real SlideShow](#)

4:29 min

[Real Video](#)

8:15 min

16 MB

# CSISS

## Specialist

## Meetings

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2002

Spatial Data Analysis Software Tools Specialist Meeting  
Santa Barbara, CA  
May 10-11, 2002

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2001

Location-Based Services Specialist Meeting  
Santa Barbara, CA  
December 14-15, 2001

Externalities Specialist Meeting  
Santa Barbara, CA  
January 11-13, 2001

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2000

Inequality and Equity Specialist Meeting  
Santa Barbara, CA  
November 12-14, 2000

# Specialist Meeting on Spatial Data Analysis Software Tools

**Upham Hotel, Santa Barbara, CA  
May 10-11, 2002**



**Dr. Sergio Rey, Organizer**

*"This meeting will bring together software developers from both the public/academic sector as well as the private sector who deal with tools to visualize spatial data (geovisualization), carry out exploratory spatial data analysis (ESDA) and facilitate spatial modeling (spatial regression modeling, spatial econometrics, geostatistics), with a special focus on the potential for social science applications."*



**Dr. Luc Anselin, Organizer**





# Center for Spatially Integrated Social Science

UCSB / Principal Investigator: M.F. Goodchild

Co-PI: R.P. Appelbaum

Program Director: D.G. Janelle

**Building resources for  
spatial analysis in the  
social sciences**

**[www.CSISS.org](http://www.CSISS.org)**

- Internet Gateway to Spatial Analysis
- Virtual Community for Spatial Social Science
- Learning Resources for Researchers
- Summer National Workshop Program
- Spatial Analytic Tools Development