SOLSTICE ARCHIVES

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2010

Volume XXI, Number 1, 2010

IMaGe Silver Jubilee

SOLSTICE,
VOLUME XXI, NUMBER 1;
June, 2010

Front matter: June, 2010.

Editorial Board, Advice to Authors, Mission Statement

Awards

MatheMaPics

Sandra L. Arlinghaus and Joseph J. Kerski

The Perimeter Project, Part 3:
Fragile Lands Protection Using Cemetery Zoning
Associated .kmz file
Sandra L. Arlinghaus and William E. Arlinghaus

Zipf's Hyperboloid--Revisited:
Compression and Navigation--Canonical Form
Sandra L. Arlinghaus
with input from an earlier article as part of an ongoing collaboration with
Michael Batty

Fractals Take A Non-Euclidean Central Place
Sandra L. Arlinghaus

Solstice Archive

2009
Volume XX, Number 2, 2009

HAPPY TWENTIETH ANNIVERSARY!

SOLSTICE,
VOLUME XX, NUMBER 2;
DECEMBER, 2009.

Front matter: December, 2009.
Editorial Board, Advice to Authors, Mission Statement

Awards

ARTICLES
(reviewed)

The Perimeter Project, Part 2: Fragile Lands Protection Using Cemetery Zoning
Associated .kmz file
Associated video file (with thanks to Roger Rayle)
Sandra L. Arlinghaus and William E. Arlinghaus

Southeast Asia: Historical Place Names Visualized in Google Earth
Sandra Lach Arlinghaus and Robert F. Austin
See Revised Monograph #4, below.

Essays on Mathematical Geography: Contemporary Visualizations
Sandra L. Arlinghaus
See Revised Monograph #3, below

NOTES

Emergency Phones: A Google Earth Approach
Sandra L. Arlinghaus

3D Annotated Archive
Sandra L. Arlinghaus

Revised eBooks and eBook Supplements,
Reflecting the power of current technology

IMaGe Monograph #3:
Sandra L. Arlinghaus, 1986.
Essays on Mathematical Geography.
Link to original
Link to supplementary material--see notation above

IMaGe Monograph #4:
Robert F. Austin, 1986.
A Historical Gazetteer of Southeast Asia.
Link to original
Link to supplementary material--see notation above

Solstice Archive

2009
Volume XX, Number 1, 2009

HAPPY TWENTIETH ANNIVERSARY!

SOLSTICE,
VOLUME XX, NUMBER 1;
JUNE, 2009.

Front matter: June, 2009.
Editorial Board, Advice to Authors, Mission Statement.

Awards

ARTICLES
(reviewed)

The Perimeter Project:
Fragile Lands Protection Using Cemetery Zoning
Sandra L. Arlinghaus and William E. Arlinghaus

Bee Ranges and Almond Orchard Locations:

Contemporary Visualization
Sandra L. Arlinghaus and Diana Sammataro

Air Pollution Changes in the Detroit Metro Area from 1988 - 2004
Kerry Ard

eBOOKS

New eBook
Spatial Synthesis: Volume II, Book 4
(requires use of Google®Â Earth as browser)

Revised eBooks and eBook Supplements,
Reflecting the power of current technology

IMaGe Monograph #1:
Sandra L. Arlinghaus and John D. Nystuen, 1986.
Mathematical Geography and Global Art:
the Mathematics of David Barr's `Four Corners Project'.
Link to original
Link to supplementary material

IMaGe Monograph #2:
Sandra L. Arlinghaus, 1986.
Down the Mail Tubes: the Pressured Postal Era, 1853-1984.
Link to original
Link to supplementary material

ANNOUNCEMENTS
Related Conference
GooglEarthDay: April 22, 2009
Program
Video Link
Photo Link

Solstice Archive

2008
Volume XIX, Number 2, 2008

SOLSTICE,
VOLUME XIX, NUMBER 2;
DECEMBER, 2008.

Front matter: December, 2008.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Introduction

ARTICLES
(reviewed)

Electronic Journals:
Then and Now...
A Fifteen Year Retrospective
Sandra Lach Arlinghaus and Richard H. Zander

Charting the Past:
Population-Environment Dynamics
Sandra Arlinghaus and Michael Batty

Project Archimedes:
Google Earth Experiments in
Innovative Scientific Communication
Sandra Lach Arlinghaus

ANNOUNCEMENT

New eBooks

Spatial Synthesis: Volume II, Book 1:
Scientific, Planning, Humanitarian, and Teaching Applications,
From DevInfo to Google Earth

Spatial Synthesis: Volume II, Book 2:
Making It Clear: The Importance of Transparency

GooglEbooks (requires use of Google®Â Earth as browser):
Spatial Synthesis: Volume II, Book 2:
Making It Clear: The Importance of Transparency

Spatial Synthesis: Volume II, Book 3.
Population-Environment Dynamics: The Power of the Network Link

Mail

Solstice Archive

2008
Volume XIX, Number 1, 2008

SOLSTICE,
VOLUME XIX, NUMBER 1;
JUNE, 2008.

Front matter: June, 2008.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Introduction

ARTICLES
(reviewed)

Google Earth Applications in a Community Information System: Scio Residents for Safe Water
Roger Rayle

Huron River Tour, Ann Arbor
Matthew Naud

Detroit North American Bridge Championship: the Google Earth Display
Sandra Lach Arlinghaus

Unit 174
American Contract Bridge League Bridge Clubs:
Greater Houston
Bert Onstott

Another Tale of Two Cities
Neighborhood Watch from Ann Arbor to Baghdad
Sandra Lach Arlinghaus

Real-time Animation Scripts for Google Earth
Lars Schumann

NOTES

Mouth Geography...Or, Sleep Apnea and Linguistics?
William E. Arlinghaus

Deep Blue: IMaGe Author Applets
Sandra Lach Arlinghaus

Mail

Solstice Archive

Cover background bus animation from Lars Schumann's work in this issue.

2007
Volume XVIII, Number 2, 2007

SOLSTICE, VOLUME XVIII, NUMBER 2; DECEMBER, 2007.

Front matter: December, 2007.
Editorial Board, Advice to Authors, Mission Statement.

Awards
(contains recent listing of "blue ribbons" from the "Best of the Google 3D Warehouse")

SPECIAL ISSUE ON PROJECTIVE GEOMETRY CONSTRUCTIONS

ARTICLES
(reviewed)

Geography -- Visual Unity
Sandra Lach Arlinghaus

The Animated Pascal

Sandra Lach Arlinghaus

Desargues's Two-Triangle Theorem

Sandra Lach Arlinghaus

ANNOUNCEMENT and INVITATION

New Student Series in IMaGe eBooks

IN MEMORIAM

ALLEN K. PHILBRICK

NORTON S. GINSBURG

Mail

Solstice Archive

2007
Volume XVIII, Number 1, 2007

SOLSTICE, VOLUME XVIII, NUMBER 1; JUNE, 2007.

Front matter: June, 2007.
Editorial Board, Advice to Authors, Mission Statement.

Awards

ARTICLE
(reviewed)

Spatial Analysis through the Looking Glass
Peter Martin

ANNOUNCEMENT

3D Atlas of Ann Arbor, 3rd Edition

Sandra Lach Arlinghaus

NOTES

Update on the Varroa Mite Map
Diana Sammataro
[with Editorial Commentary]

Editorial Commentary on Essays of this Section

The Prediction of Indian Monsoon Rainfall: A Regression Approach
Goutami Bandyopadhyay

Autocorrelation Structure Analysis and Auto Regressive Prediction of the Time Series of Mean Monthly Total Ozone overArosa, Switzerland
Goutami Bandyopadhyay and Surajit Chattopadhyay

Mail

Solstice Archive

2006
Volume XVII, Number 2, 2006
SPECIAL ISSUE ON INTERNET GEOMETRY AND GEOGRAPHY

SOLSTICE, VOLUME XVII, NUMBER 2; DECEMBER, 2006.

SPECIAL ISSUE ON INTERNET GEOMETRY AND GEOGRAPHY

Front matter: December, 2006.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Articles (reviewed):

Introduction to the Special Issue

Visualizing Rank and Size of Cities and Towns
Part I: England, Scotland, and Wales, 1901-2001
Part II: Greater London, 1901-2001
Sandra Arlinghaus and Michael Batty

Visualizing a Map of Walter Christaller, Poland 1941
Part I: Benchmarking the Map.
Part II: Interpolation of the Benchmarked Map.
Sandra Lach Arlinghaus

NOTES:

Update on the Varroa Mite Map
Diana Sammataro

Announcement: 3D Atlas of Ann Arbor, 2nd Edition;
Banda Aceh: A View on the Globe
Sandra Lach Arlinghaus

Mail

Solstice Archive

2006
Volume XVII, Number 1, 2006

CURRENT ISSUE
SOLSTICE, VOLUME XVII, NUMBER 1; JUNE, 2006

Cover

Front matter: June, 2006.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Articles (reviewed):

Waldo Tobler
Looking at Some Data from Isard
From a presentation given at the Western Regional Science Association in Santa Fe, New Mexico, February, 2006.

Sandra L. Arlinghaus and William C. Arlinghaus
Maps and Decisions: Part II--Ambiguity; Part III--Redistricting; Part IV--Club Data

Sandra Lach Arlinghaus
3D Atlas of Ann Arbor: The Google Earth$^{\hat{A}®}$ Approach
Part I; Part II

Research Announcement:

Sandra L. Arlinghaus and Michael Batty
Zipf's Hyperboloid?

Book Reviews:

Wildberger, Norman
Divine Proportions: Rational Trigonometry to Universal Geometry.
Review by S. Arlinghaus

William C. Arlinghaus
PseudoCoup$^{\hat{A}®}$: A Psubtle Puzzle
Link to Solution

Mail

Solstice Archive

2005
Volume XVI, Number 2, 2005

CURRENT ISSUE
SOLSTICE, VOLUME XVI, NUMBER 2; WINTER, 2005.

Cover

Front matter: Winter, 2005.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Articles (reviewed):

Veronique Van Acker and Frank Witlox
Exploring the Relationships between Land-use System and Travel Behaviour Concepts: Some First Findings
[ed.] This file displays best in Microsoft Internet Explorer or Avant browsers

Waldo Tobler
Using Asymmetry to Estimate Potential
From a talk given in Redondo Beach, CA--1005.
[ed.] Readers who enjoy Professor Toblerï¿½s article may also wish to consider work by Jerrold Grossman involving Research on Collaboration in Research, http://www.oakland.edu/enp/research.html, and related topics on Professor Grossmanï¿½s home page, http://personalwebs.oakland.edu/~grossman/

John D. Nystuen
Photo Essay: The Emerald Ash Borer
Photos in this essay looked best using screen set at highest resolution available.

Sandra L. Arlinghaus and William C. Arlinghaus
Beyond the Shadow
Variation on a submission for the Pirelli Relativity Challenge of 2005.

NEWS: UPDATE ON THE 3D ATLAS OF ANN ARBOR

Sandra Lach Arlinghaus
Archimedes in Ann Arbor?

Alyssa J. Domzal, Ui Sang Hwang, and Kris J. Walters, Jr.
Virtual Flood in the Allen Creek Floodplain and Floodway

Mail

Solstice Archive

2005
Volume XVI, Number 1, 2005

CURRENT ISSUE
SOLSTICE, VOLUME XVI, NUMBER 1; SUMMER, 2005.

Cover

Front matter: Winter, 2005.
Editorial Board, Advice to Authors, Mission Statement.

Awards

In Memoriam
Frank Harary
Saunders Mac Lane

Articles (reviewed):

Spatial Synthesis
The Evidence of Cartographic Example: Hierarchy and Centrality
Sandra Lach Arlinghaus

Kioskland: A Strategy for Linking Hierarchical Levels of Virtual Reality Maps
Sandra Lach Arlinghaus et al.

Research Announcements

A Methodology for Historical Geography: Internet Implementation
Ann Evans Larimore with Sandra Lach Arlinghaus and Robert Haug

Spatial Synthesis: Investigations in Progress
Sandra Lach Arlinghaus

Mail

Solstice Archive

2004
Volume XV, Number 2, 2004

CURRENT ISSUE
SOLSTICE, VOLUME XV, NUMBER 2; WINTER, 2004.

Cover

Front matter: Winter, 2004.
Editorial Board, Advice to Authors, Mission Statement.

Awards

Articles (reviewed):

Spatial Synthesis: 3D Atlas of Ann Arbor
Sandra Lach Arlinghaus

Cross-discipline Analogy: Information Impedance Matching
Peter Martin

Goode's 80th!
Sandra Lach Arlinghaus

Notes, Research Announcements, and Observations

Continental USA Travel Tracks
Gottfried Hogh

Two Rivers Ridge: Capturing Art
Sandra Arlinghaus and Braxton Blake

Mail

Solstice Archive

2004
Volume XV, Number 1, 2004

CURRENT ISSUE
SOLSTICE, VOLUME XV, NUMBER 1; JUNE, 2004.

Cover

Front matter: Summer, 2004.
Editorial Board, Advice to Authors, Mission Statement.

Awards **to Solstice Authors**

Articles (reviewed):

Sandra Lach Arlinghaus and William Charles Arlinghaus
Spatial Synthesis Sampler.
Geometric Visualization of Hexagonal Hierarchies: Animation and Virtual Reality

Klaus-Peter Beier
One Optimization of an Earlier Model of Virtual Downtown Ann Arbor

Frank J. A. Witlox, Aloys W. J. Borgers, Harry J. P. Timmermans
Modelling Locational Decision Making of Firms Using Multidimensional Fuzzy Decision Tables: An Illustration

Sandra L. Arlinghaus, Fred J. Beal, and Douglas S. Kelbaugh
The View from the Top: Visualizing Downtown Ann Arbor in Three Dimensions

Marc Schlossberg
Visualizing Accessibility II: Access to Food

Summer in the Northern Hemisphere is Winter in the Southern Hemisphere...

Peter A. Martin
Energy Flow: Spatial and Temporal Patterns

Alma S. Lach
Winter Windows: Ice Largo

Seung-Hoon Han
Spatial Analysis of Subway Zones in Boston, Massachusetts

Andrew Walton
A Golfer's Resource: Huron Hills Golf Course, Ann Arbor, Michigan

Thana Chirapiwat (link to his server, unreviewed material)
Visualization of Geographic Information with VRML

Mail

2003
Volume XIV, Number 2, 2003

CURRENT ISSUE
SOLSTICE, VOLUME XIV, NUMBER 2; WINTER, 2003.

Cover

Front matter: Winter, 2003.
Editorial Board, Advice to Authors, Mission Statement.

Awards to Solstice Authors

Articles (reviewed):

Sandra Arlinghaus, Robert Haug, Ann Larimore
Lewis and Clark, 200 Years: A Visual Tribute to an Exploration.
The Gates of the Rocky Mountains.

Surajit Chattopadhyay

- Dependence of Production of Paddy on the Total Annual Rainfall: A Different Approach
- Combating the complexity in spatial data: A neuronal approach

Sandra Lach Arlinghaus
Ann Arbor, Michigan: Virtual Downtown Experiments, Part II

Taejung Kwon, Adrien A. Lazzaro, Paul J. Oppenheim, Aaron Rosenblum
Ann Arbor, Michigan: Virtual Downtown Experiments, Part III

Mail

About: Tornado Siren Location: Ann Arbor, Michigan

- Letter from United States Member of Congress, John Dingell
- Quotations **from articles from The Ann Arbor News.**
- Address Change from Diana Sammataro

2003
Volume XIV, Number 1, 2003

CURRENT ISSUE
SOLSTICE, VOLUME XIV, NUMBER 1; SUMMER, 2003.

Cover

Front matter: Summer, 2003.
Editorial Board, Advice to Authors, Mission Statement.

Awards **to Solstice Authors**

In Memoriam

Articles (reviewed):

Sandra Arlinghaus, Michael Batty, and John Nystuen
Animated Time Lines: Coordination of Spatial and Temporal Information

Sutapa Chaudhuri and Surajit Chattopadhyay
Viewing the relative importance of some surface parameters associated with pre-monsoon thunderstorms through Ampliative Reasoning

Kulwinder Kaur
On L^1-Convergence of Modified Sine Sums
TeX file link.

Sandra Lach Arlinghaus
1. Ann Arbor, Michigan: Virtual Downtown Experiments

2. Tornado Siren Location: Ann Arbor, Michigan

Special section, I, on Ann Arbor, Michigan.
In commemoration of years of town/gown cooperation, associated with students in courses taught by S. Arlinghaus, 1992-present at The University of Michigan. Thanks to the following individuals in the City of Ann Arbor who made these projects possible. They have graciously supplied maps, aerials, and wise counsel on a regular basis:

- **Merle Johnson, GIS Expert, Information Technology Services, City of Ann Arbor**
- **Karen Hart, Planning Director, Planning Department, City of Ann Arbor**
- **Wendy L. Rampson, City Planner III, Planning Department, City of Ann Arbor**
- **Coy Vaughn, City Planner III, Planning Department, City of Ann Arbor**
- **Jeff Kahan, City Planner II, Planning Department, City of Ann Arbor**
- **Chandra Hurd, City Planner II, Planning Department, City of Ann Arbor**
- **Matthew Kowalski, Assistant Planner, Planning Department, City of Ann Arbor**
- **Heather R. Edwards, Historic Preservation Coordinator, City of**

Ann Arbor
- **Matthew Naud, Environmental Coordinator, City of Ann Arbor**
- **Ethel Potts, Zoning Board of Appeals**
- **Jean Carlberg, City Council**

Please e-mail if interested in files that are no longer posted; they may be available.

New Projects in Solstice, reflecting interaction between University of Michigan students (or others) and municipal authorities.	Links to existing projects already published in Solstice.	Links (and citations) to older projects, not in Solstice, reflecting interaction between University of Michigan students and municipal authorities
• **Parks and Schools Directory: Ann Arbor/Pittsfield**, Peter Z. Acuff, Winter 2003 • **Bike Parking in Downtown Ann Arbor**, Simon VanLeeuwen, Winter 2003 (use Internet Explorer). • **Urbanimals Map**, Emile Lauzzana, Winter 2003. • **Ann Arbor Historic Preservation**, Ronald Keolian, Rachel Hornstein, and Vanessa Reisin, Fall 2002 • **Clean Waters and Green Lawns, Ann Arbor Michigan**, Adam Pettinger, Alan Striegle, Brad Fuzak, and Kathryn King, Fall 2002,	• **The Relationship between Bicycle Accidents and Lanes of Travel at Downtown Ann Arbor Intersections**, Hyeyun Lee • **Maps and Decisions: Allen's Creek Floodplain, Opportunity or Disaster?** Sandra Lach Arlinghaus • **A Neighborhood Information System within Ann Arbor, Michigan.** Sandra L. Arlinghaus and Lloyd R. Phillips. • **Elements of Spatial Planning: Theory. Part I, Part II.** Sandra L. Arlinghaus.	• **Field Test Site: Pall Gelman Sciences** Matthew Gamache, 2002. • Parking counts for Planning Department by David Brandt and Jacob Frysinger. • **Ann Arbor Creeksheds: Resource Website**, Sandra L. Arlinghaus, 2001. • **Digital Flood Map Project: Township Island Component**, Milo Tilton, Fall 2001 • **The Ann Arbor Freeway System**, Michael Baysdell, Fall 2000. • **Fazoli Site: Baseline Study**. Jocelyn La Face, Summer 1999. • **Surface Flow and Steep Slopes Resource Page** Sandra L. Arlinghaus, 1999. • Rosalyn Scaff, Fall 1999. Base for current city site. Project funded through the City of Ann Arbor; she won a "Community Service Professional Award" for her work

		(along with Wendy Rampson, Chandra Hurd, and Sandra Arlinghaus). Ongoing work to update this material by Wayne Buente. • **A History of Landscape Change in a Neighborhood of Ann Arbor**, Katya Podsiadlo, Fall 1998. • Amie Ottinger, Fall 1997. Base for a Parks website dealing with prescribed burns.

Mail

Solstice Archive

2002
Volume XIII, Number 2, 2002

CURRENT ISSUE
SOLSTICE, VOLUME XIII, NUMBER 2; WINTER, 2002.

Cover

Front matter: Winter, 2002.
Editorial Board, Advice to Authors, Mission Statement.

Articles (reviewed):

Marc Schlossberg
Visual Accessibility with GIS

Robert F. Austin
Cost Proxy Models in Rural Telephone Companies

Surajit Chattopadhyay
Predicting Pre-monsoon Thunderstorms--
A Statistical View through Propositional Logic

Robert F. Austin and Porter E. Childers

Disaggregation and Targeting of Universal Service Support

Kulwinder Kaur, Babu Ram, and S. S. Bhatia
TeX file for the reader to run LaTeX, or, a .pdf below:
L^1-Convergence of Cosine Series with Hyper Semi Convex Coefficients

Sandra L. Arlinghaus and William C. Arlinghaus
Spatial Synthesis: A Research Program

Solstice Archive

2002
Volume XIII, Number 1, 2002

CURRENT ISSUE
SOLSTICE, VOLUME XIII, NUMBER 1; SUMMER, 2002.

Cover

Front matter: Summer, 2002.
Editorial Board, Advice to Authors, Mission Statement.

Research Note:

Sandra Arlinghaus, Salma Haidar, and Mark Wilson
Animated Map Timeline, Syria

Articles (reviewed):

B. Derudder and F. Witlox
Classification Techniques in Complex Databases:
Assessment of Vagueness and Sparsity in a Network of World Cities

John D. Nystuen
The ThÃ¼nen Society, North American Division

Sandra Lach Arlinghaus
The Lights Are On, All Over the World

Mapping Projects, Urban Planning 507, 2002 The University of Michigan (selections):

Interactive Internet Maps:

- **Eun-Young Kim:**
  Bus Stops and Bus Users in the City of Detroit
- **Hyeyun Lee (also includes animated maps):**
  The Relationship between Bicycle Accidents and Lanes of Travel at Downtown Ann Arbor Intersections

Animated Maps:

- **Jeanine Chura McCloskey:**
  Beach Closures in Oakland County, Michigan: Using GIS as an Investigative Tool

- **Makoto Noguchi:**
  The Possibility of Extending the Streetcar Line in Kagoshima City, Japan

Materials Received

Solstice Archive.

2001
Volume XII, Number 1

- Cover
- **Front matter: Summer, 2001**
  - Editorial Board, Advice to Authors, Mission Statement.
  - Update from Diana Sammataro: Varroa Mite Animated Map
- **Articles:**
  - **John D. Nystuen, Photo Essay.** Water Rustlers? (High-speed connection recommended.)
  - **Sandra L. Arlinghaus and William C. Arlinghaus** The Neglected Relation
  - **Sandra Lach Arlinghaus** Maps and Decisions: Allen's Creek Floodplain, Opportunity or Disaster?
- **Book Reviews:**
  - **Kameshwari Pothukuchi reviewer of:** Fast Food Nation: The Dark Side of the All-American Meal **by Eric Schlosser, New York: Houghton Mifflin, 2001.**
  - **Richard R. Wallace reviewer of:** High Technology and Low-Income Communities: Prospects for the Positive Use of Advanced Information Technology **edited by Donald A. SchÃƒÆ'Ã‚Â¶n, Bish Sanyal, and William J. Mitchell, MIT Press, 1999.**

2001
Volume XII, Number 2

- Cover
- **Front matter: Winter, 2001--**Editorial Board, Advice to Authors, Mission Statement.
- **Articles:**
  - **Waldo Tobler,** Spherical Measures without Spherical Trigonometry
  - **John D. Nystuen,** What's At Home? Shelter for the Poor in Low Income Cities
  - **Sandra Lach Arlinghaus,** Base Maps, Buffers, and Bisectors

2000
Volume XI, Number 1
Cover
Front matter: Summer, 2000
Editorial Board, Advice to Authors, Mission Statement.
John D. Nystuen
Set in Stone: An Analemma in Northern Italy
Richard Wallace
Personal Reflections on Solar Power
Sandra Lach Arlinghaus
Animaps, IV: Of Time and Place
On a slow modem this article will take a long time to load.
Book Review.
Review of: Arundhati Roy, *The Cost of Living*, Modern Library, 1999, 126 pp., $11.95 (pap.).
Reviewer: Richard Wallace.

2000
Volume XI, Number 2
Cover
Front matter: Winter, 2000
Editorial Board, Advice to Authors, Mission Statement.
To the Memory of Donald Frederick Lach, 1917-2000
Dedication
John D. Nystuen, Photo Essay
Fifty Years of Spatial Analysis: A Symposium in Honor of William L. Garrison 1950-2000
(High-speed connection recommended.)
Sandra L. Arlinghaus and Lloyd R. Phillips
A Neighborhood Information System within Ann Arbor, Michigan
Courtney Gober
Animaps, Again
Nakia D. Baird
Animap Sequences
(High-speed connection recommended)

1999
Volume X, Number 1
Cover
Front matter: Summer, 1999. Editorial Board, Advice to Authors, Mission Statement.
Dedication To John D. Nystuen, on the occasion of his retirement from The University of Michigan
John D. Nystuen, Metropolitan Mining: Institutional and Scale Effects on the Salt Mines of Detroit
Sandra L. Arlinghaus and William C. Arlinghaus. Animaps III: Color Straws, Color Voxels, and Color Ramps.
Richard Wallace. Book Review: AndrÃƒÆ'Ã‚Â© I. Khuri, Thomas Mathew, and Bimal K. Sinha, Statistical Tests for Mixed Linear Models, **John Wiley & Sons, 1998, 352 pp., $69.95 (cloth).**
Seema Desai Iyer. Book Review: Castells, Manuel (1996). The Rise of the Network Society (The Information Age: Economy, Society and Culture, Volume 1). **Malden, MA: Blackwell Publishers, Inc. (556 pages, bibliography 51 pages, index 23 pages).**

1999
Volume X, Number 2
Cover
Front matter: Winter, 1999
Editorial Board, Advice to Authors, Mission Statement.
E-mail from readers
Festschrift: Nystuen CD
Jeffrey A. Nystuen
Listening to Raindrops
Sandra L. Arlinghaus
A Map of Jackson, Mississippi
Books Received; Brief Summaries:
Julius S. Bendat, Nonlinear Systems Techniques and Applications
Paul M. DeRusso, Rob J. Roy, Charles M. Close, Alan A. Desrochers, State Variables for Engineers

1998
Volume IX, Number 1,
Cover and table of content
Front matter: Summer, 1998. Editorial Board, Advice to Authors, Mission Statement.
Sandra L. Arlinghaus, William D. Drake, and John D. Nystuen with data and other input from: Audra Laug, Kris S. Oswalt, and Diana Sammataro. Animaps.
Frank E. Barmore (reprinted, in part, from The Wisconsin Geographer (with permission)).
Spatial Analysis, the Wisconsin Idea and the UW-System. The Use and Abuse of

Dispersion Statistics
Sandra L. Arlinghaus, Ruben De la Sierra. Revitalizing Maps or Images?
John D. Nystuen. Book Review: The Universe Below by William J. Broad (New York: Simon and Schuster, 1997, 432 pages)

1998
Volume IX, Number 2
Cover
Front matter: Winter, 1998. Editorial Board, Advice to Authors, Mission Statement.
Sandra Lach Arlinghaus. Animated Four Color Theorem: Sample Map.
Sandra Lach Arlinghaus. Animaps, II.
Daniel Albert. Book Review: Rising Tide: The Great Mississippi Flood of 1927 and How it Changed America, by John M. Barry

1997
Volume VIII, Number 1
Front matter: Summer, 1997 Editorial Board, Advice to Authors, Mission Statement.
Author: John D. Nystuen. Why Whales Don't Freeze or Kidney-Shaped Airports: Spatial Analysis and Spatial Design.
Author: Frank Harary. To the Memory of Clyde Tombaugh, 1906-1997.

1997
Volume VIII, Number 2
Front matter: Winter, 1997. Editorial Board, Advice to Authors, Mission Statement.
John D. Nystuen. The Photographic Record. SunSweep: A Visit on the Summer Solstice.
Sandra L. Arlinghaus, Frederick L. Goodman, Daniel A. Jacobs. Buffers and Duality.
Sandra L. Arlinghaus, William C. Arlinghaus. A Graph Theoretic View of the Join-Count Statistic.
John D. Nystuen, Andrea I. Frank. Differences in Feature Representation in Digital Map Bases.

1996
Volume VII, Number 1
John D. Nystuen, Rhonda Ryznar, Thomas Wagner. "The Greening of Detroit, 1975-1992: Physical Effects of Decline."
Sandra Lach Arlinghaus. "Algebraic Aspects of Ratios."
Daniel Jacobs. "U.S. Route 12 Buffer."

1996
Volume VII, Number 2
Sandra Lach Arlinghaus. "Web Fractals: An Overview."
Sandra Lach Arlinghaus. "Part II. Elements of Spatial Planning. Theory. Merging Maps: Node Labeling Strategies.

1995
Volume VI, Number 1
Richard Wallace: "Motor Vehicle Transport and Global Climate Change: Policy Scenarios."
Sandra L. Arlinghaus, William C. Arlinghaus, John D. Nystuen: "Discrete Mathematics and Counting Derangements in Blind Wine Tastings."

Figures for Volume VI, Number 1, 1995

1995
Volume VI, Number 2
Sandra Lach Arlinghaus: "Elements of Spatial Planning: Theory. Part I."

1994
Volume V, Number 1
Virginia Ainslie and Jack Licate: "Getting Infrastructure Built. Cleveland Infrastructure

Team Shares Secrets of Success."
Frank E. Barmore: "Center Here; Center There; Center, Center Everywhere."
Barton R. Burkhalter: "Equal-Area Venn Diagrams of Two Circles: Their Use with Real-World Data."
Sandra L. Arlinghaus, William C. Arlinghaus, Frank Harary, John D. Nystuen. "Los Angeles, 1994--A Spatial Scientific Study."

1994
Volume V, Number 2
Sandra L. Arlinghaus, William C. Arlinghaus, Frank Harary: "The Paris Metro: Is its Graph Planar?"
Sandra Lach Arlinghaus: "Interruption!"
Reprint. Michael F. Dacey: "Imperfections in the Uniform Plane."

1993
Volume IV, Number 1
Sandra L. Arlinghaus and Richard H. Zander: "Electronic Journals: Observations Based on Actual Trials, 1987-Present."
John D. Nystuen: "Wilderness As Place."
Frank E. Barmore: The Earth Isn't Flat. And It Isn't Round Either: Some Significant and Little Known Effects of the Earth's Ellipsoidal Shape."
Sandra Lach Arlinghaus: "Micro-cell Hex-nets?"
Sandra L. Arlinghaus, William C. Arlinghaus, Frank Harary: "Sum Graphs and Geograhic Information."

1993
Volume IV, Number 2
William D. Drake, S. Pak, I. Tarwotjo, Muhilal, J. Gorstein, R. Tilden. "Villages in Transition: Elevated Risk of Micronutrient Deficiency."

1992
Volume III, Number 1
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