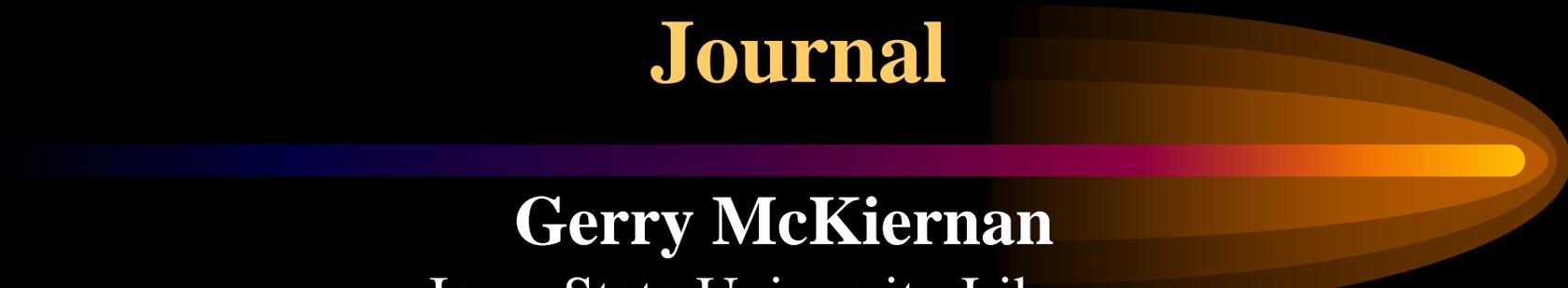


**E is for Everything:
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[e-]
Journal**



Gerry McKiernan

Iowa State University Library

Ames, Iowa

gerrymck@iastate.edu

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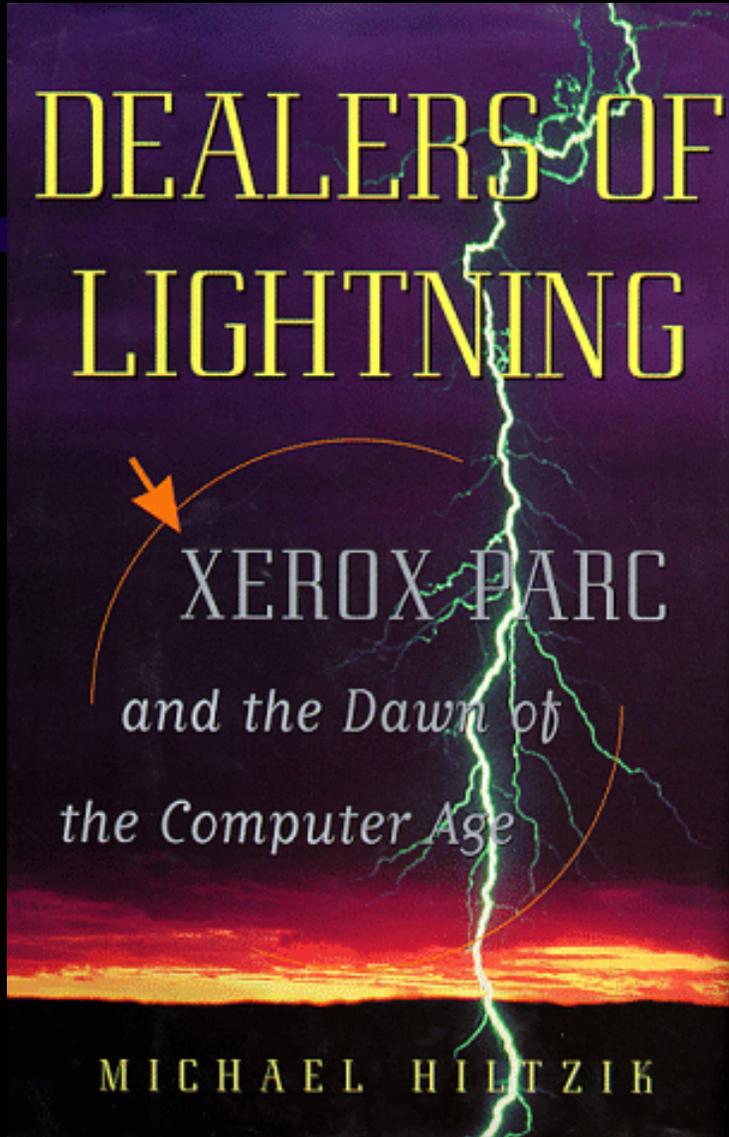


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**Michael Hiltzik. *Dealers of Lightning: Xerox
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York: HarperBusiness, c1999, p. 270.**

JEP: Earth Interactions - Netscape

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¹*eclectic*

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Function: adjective

Etymology: Greek *eklektikos*, from *eklegein* to select, from *ex-* out + *legein* to gather -- more at **LEGEND**

Date: 1683

1 : selecting what appears to be best in various doctrines, methods, styles

2 : composed of elements drawn from various sources;
HETEROGENEOUS

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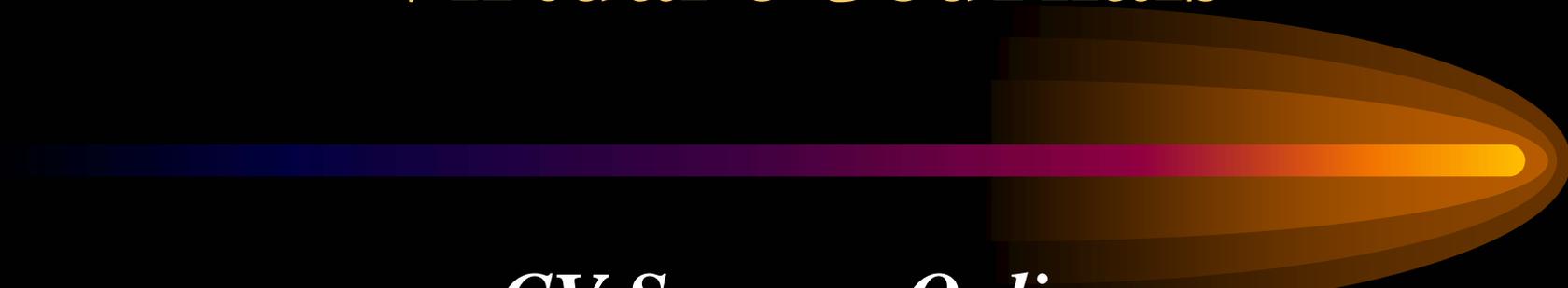
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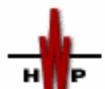
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Guo D, Rajamaki ML, Saarma M, Valkonen JP
Towards a protein interaction map of potyviruses: protein interaction matrixes of two potyviruses based on the yeast two-hybrid system.
J Gen Virol 2001 Apr;82(Pt 4):935-9 [Full Text](#) / [PMID: 11257200](#)

Jantunen R, Juvonen E, Ikkala E, Oksanen K, Anttila P, Ruutu T
The predictive value of vascular risk factors and gender for the development of thrombotic complications in essential thrombocythemia.
Ann Hematol 2001 Feb;80(2):74-8 [Full Text](#) / [PMID: 11261328](#)

**Kettunen E, Nissen AM, Ollikainen T, Taavitsainen M, Tapper J, Mattson K,
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Gene expression profiling of malignant mesothelioma cell lines: cDNA array study.
Int J Cancer 2001 Feb 15;91(4):492-6 [Full Text](#) / [PMID: 11251971](#)

Merits A, Vasiljeva L, Ahola T, Kaariainen L, Auvinen P
Proteolytic processing of Semliki Forest virus-specific non-structural

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Virtual Journal of Nanoscale Science & Technology--April 16, 2001 - Netscape

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Commensurability effects in lateral surface-doped superlattices
R. A. Deutschmann, C. Stocken, W. Wegscheider, M. Bichler, and G. Abstreiter
Applied Physics Letters 78, 2175-2177 (2001)
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Does Estrogen Replacement Therapy Increase Ovarian Cancer Risk?

Although postmenopausal estrogen replacement therapy (ERT) increases risk for endometrial cancer and may be associated with increased risk for breast cancer, there is little information about any relation between ERT and ovarian cancer. This prospective cohort study consisted of 211,581 postmenopausal women (following exclusions from a total cohort of 676,306) who completed a baseline questionnaire in 1982 and were followed until 1996.

There were 944 deaths due to ovarian cancer in the study cohort. Compared with the 689 women who never had used ERT, the 62 women using ERT at baseline had significantly higher risk for dying from ovarian cancer (adjusted rate ratio, 1.51); the 193 former users had very little increase in risk. However, duration of use was associated with increased risk in both baseline and former users, with the adjusted rate ratio reaching 2.20 among 31 baseline users with 10 or more years of use. Increased risk persisted up to 29 years after cessation of use.

Comment: This study has numerous strengths, including its size and prospective design, but our ability to conclude from these data that ERT causes ovarian cancer is limited: The number of women in the study cohort with ovarian cancer represented less than 40 percent of women with ovarian cancer in the total cohort. The level of progestin use and the doses of estrogen used are unknown. Moreover, it is difficult to explain biological plausibility, given the numerous studies documenting markedly reduced ovarian cancer risk in women who use oral contraceptives and the widely held belief that it is the "explosive" nature of ovulation that predisposes women to ovarian cancer.

-- RW Rebar

Published in Journal Watch 13 April 2001

Estrogen replacement therapy and ovarian cancer mortality in a large prospective study of US women.

Rodriguez C et al., JAMA 2001 Mar 21; 285:1460-1465.

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Latest Complete Issue: Volume 18, Number 8, 21 April 2001 (1405-1592)
- **Network: Computation in Neural Systems**
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- **Smart Materials and Structures**
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Latest Complete Issue: Volume 14, Number 4, April 2001 (L5-L11, R1-R51, 173-228)

Document: Done

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The **MCEER Information Service News, March 2001** This a monthly newsletter that reviews current events and literature in earthquake hazards mitigation, and related fields. This web version of our newsletter features **E-News**. E-News allows you to **customize** your newsletter. You can focus on just those topics of particular interest to you. You can also set up email notification of new issues.

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*As always, the newsletter begins with **Brief news articles** concerning the earthquake engineering profession, important announcements, personnel news, etc.*



The **MCEER Information Service News, March 2001** This a monthly newsletter that reviews current events and literature in earthquake hazards mitigation, and related fields. This web version of our newsletter features **E-News**. E-News allows you to **customize** your newsletter. You can focus on just those topics of particular interest to you. You can also set up email notification of new issues.

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Bridges

- Go to Other Topics
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Items of Interest

- [The Science of Structural Engineering](#)

Journal Contents

- [Civil Engineering, February 2001, V.71, N,2 \(page 1\)](#)
- [Civil Engineering, February 2001, V.71, N,2 \(page 2\)](#)
- [Journal of Bridge Engineering, March/April 2001, V.6, N.2](#)

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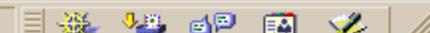
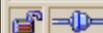
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...1 item(s)

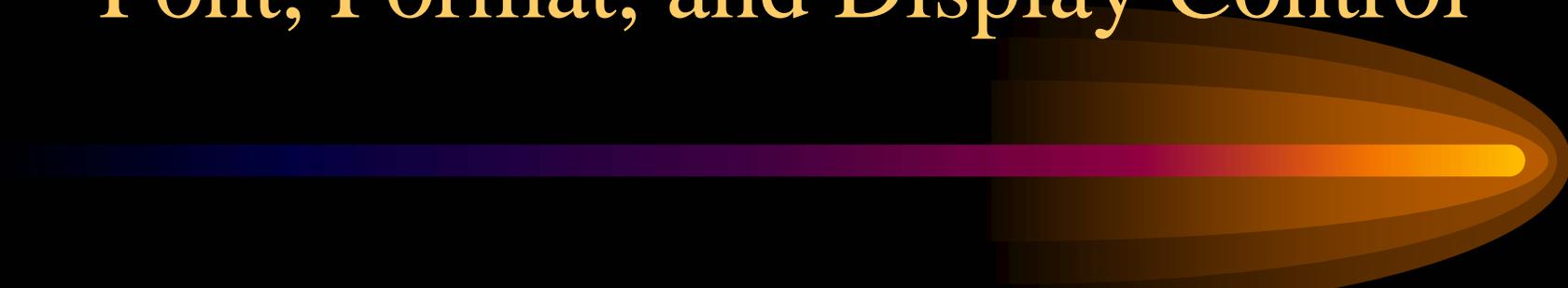
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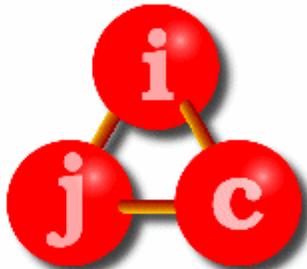


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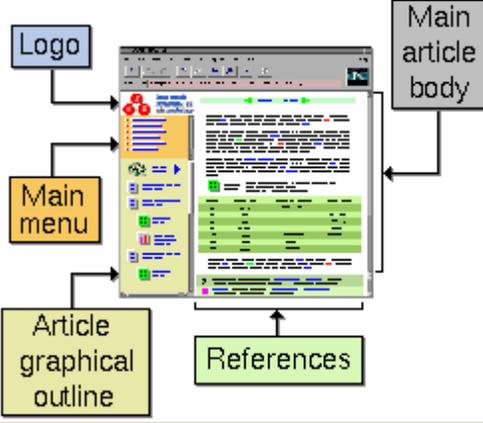
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We provide our users with a choice of possible page layouts to satisfy everyone's needs and preferences. List of available choices may vary depending on your browser/platform/hardware. In addition to list of choices, **recommended** layout is pointed out - this is the layout which in our opinion would work best with your particular configuration.

You can change layout settings any time during the session. After any of layout settings is changed it is recommended to reload existing pages, so changes will take effect.

APPLY DEFAULT

-  **Fixed layout**
Size and position of individual panels are fixed (saves screen space)
-  **User-controlled layout**
User can control size and position of individual panels during the sessions with simple mouse drag-and-drop interface.

 **Classic**

The diagram for the 'Classic' layout shows a central browser window with several components labeled with boxes and arrows: 'Logo' (top left), 'Main menu' (left side), 'Article graphical outline' (bottom left), 'References' (bottom center), and 'Main article body' (right side).

Netscape

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Bookmarks Location: <http://www.ijc.com/pref.layout.html> What's Related

References

Logo

Main menu

Article graphical outline

Main article body

Classic - references in independent window

References

Logo

Article graphical outline

Main article body

Individual article browsing - references in independent window

Document: Done

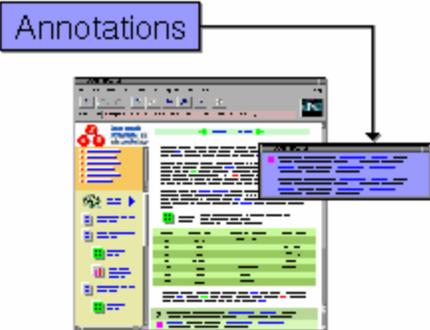
The image shows two screenshots of the Netscape browser interface. The top screenshot, labeled 'Classic - references in independent window', shows a main window with a menu bar (File, Edit, View, Go, Communicator, Help), a location bar (http://www.ijc.com/pref.layout.html), and a toolbar. The main content area is divided into several sections: a 'Logo' at the top left, a 'Main menu' below it, an 'Article graphical outline' on the left side, and a 'Main article body' on the right. A 'References' window is open as a separate, overlapping window above the main article body. The bottom screenshot, labeled 'Individual article browsing - references in independent window', shows a similar layout but with the 'Main menu' section removed. The 'References' window is also present as an independent window. The status bar at the bottom of the browser window displays 'Document: Done'.

Netscape

File Edit View Go Communicator Help

Location: <http://www.ijc.com/pref.usernotes.html>

What's Related

-  **Margin notes/annotations are displayed in lower frame**
-  **Margin notes/annotations are displayed in independent window**

Automatical popup

- User should explicitly click on the icon to see margin notes/annotations
- Automatically show margin notes/annotations when new page is open

Document: Done

The screenshot shows a Netscape browser window with the title bar "Netscape" and a menu bar containing "File", "Edit", "View", "Go", "Communicator", and "Help". The address bar shows the URL "http://www.ijc.com/pref.references.html". The main content area displays the following text:

References links style inside article body:

- see [15](#) for more discussion - *Default*
- see [15](#) for more discussion
- see [\[15\]](#) for more discussion
- see [15](#) for more discussion
- see [\[Ref. 15\]](#) for more discussion

Journal names in references

link to journal WWW site is added when available

- use full journal name, for example [Journal of the American Chemical Society](#)
- use standard ACS journal name abbreviation, for example [J. Am. Chem. Soc.](#)

Authors names style:

- first name - family name, for example **J. A. Smith, S. Morgan**
- family name - first name, for example **Smith, J. A.; Morgan, S.**

The browser's status bar at the bottom shows "Document: Done" and various system icons.

Netscape File Edit View Go Communicator Help

Bookmarks Location: <http://www.ijc.com/pref.references.html>

References tables:

references presented without icons (Default)

- 2 A. R. Leach and I. D. Kuntz
Journal of Computational Chemistry 1992, 13, 730
- 3 H. Spath,
Cluster Analysis Algorithms for Data Reduction and Classification of objects,
Ellis-Horwood Ltd.: London, 1985

references presented with icons

- 2  A. R. Leach and I. D. Kuntz
Journal of Computational Chemistry 1992, 13, 730
- 3  H. Spath,
Cluster Analysis Algorithms for Data Reduction and Classification of objects,
Ellis-Horwood Ltd.: London, 1985

References links:

- True link - activate on mouse click (Default)
- Lazy link - activate on mouse click or mouse moved over the link image

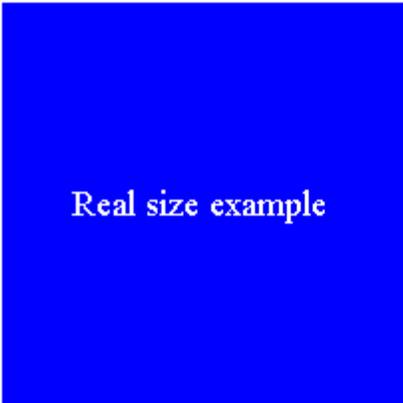
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Netscape

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Interactive features default size/style:



Real size example

200 Default width

200 Default height

Wireframe Display style

- Balls
- Wireframe
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- Strands
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- Spacefill

Multimedia resource



add appropriate icon to each resource link

omit icons

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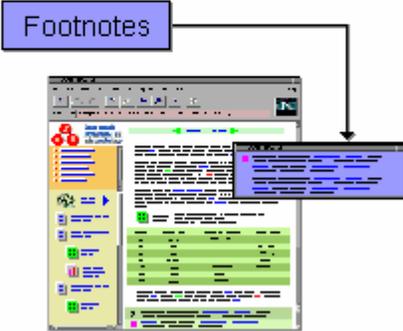
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Footnotes display destination:

Results go to lower frame



Results go to independent window



Document: Done

The image shows a Netscape browser window with a teal title bar and a menu bar (File, Edit, View, Go, Communicator, Help). The address bar shows the URL 'http://www.ijc.com/pref.papers.html'. The main content area displays the heading 'Footnotes display destination:' followed by two radio button options. The first option, 'Results go to lower frame', is selected. To its right is a diagram of a browser window with a 'Footnotes' box at the bottom, an arrow pointing up to a lower frame, and the text 'Results go to lower frame'. The second option, 'Results go to independent window', is unselected. To its right is a diagram of a browser window with a 'Footnotes' box at the bottom, an arrow pointing to a separate, independent window, and the text 'Results go to independent window'. The status bar at the bottom shows 'Document: Done' and various system icons.

Netscape File Edit View Go Communicator Help

Location: <http://www.ijc.com/pref.papers.html>

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<input type="radio"/> °C (degrees Celsius)	<input type="radio"/> kJ (kilojoules)	<input type="radio"/> m (meters)
<input type="radio"/> °F (degrees Fahrenheit)	<input type="radio"/> cal (Calories)	<input type="radio"/> cm (centimeters)
<input type="radio"/> °R (degrees Réamur)	<input type="radio"/> kcal (kilocalories)	<input type="radio"/> mm (millimeters)
	<input type="radio"/> erg (ergs)	<input type="radio"/> μm (micrometers)
	<input type="radio"/> eV (electronvolts)	<input type="radio"/> nm (nanometers)
	<input type="radio"/> hartree (hartree)	<input type="radio"/> pm (picometers)
	<input type="radio"/> cm ⁻¹	
	<input type="radio"/> Hz (Hertz)	
	<input type="radio"/> GHz (Gigahertz)	

simple notation (5000000.0)
 scientific notation (5.0x10⁶)

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Indexing and Searching



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Journal of Artificial Intelligence

Research

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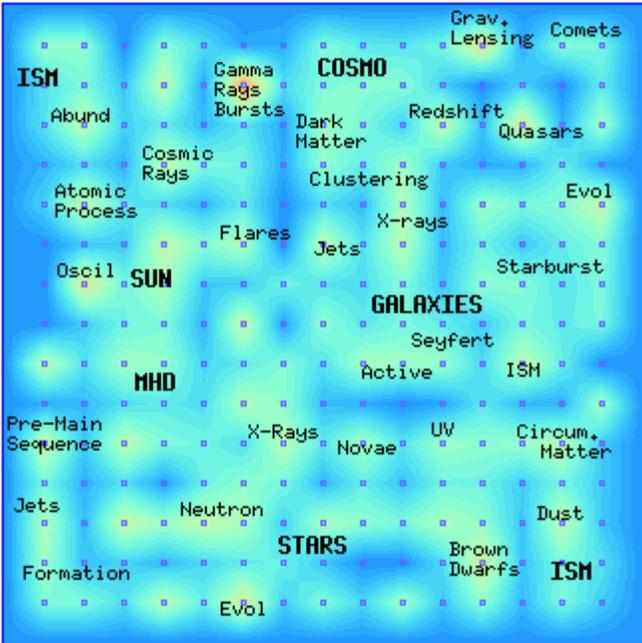
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This map gives access to 15949 articles from Astrophysical Journal. We used the technique of "Self Organizing Maps", where documents are classified in areas on the basis of their keywords. Density of documents is smallest in blue regions, and largest in red regions.

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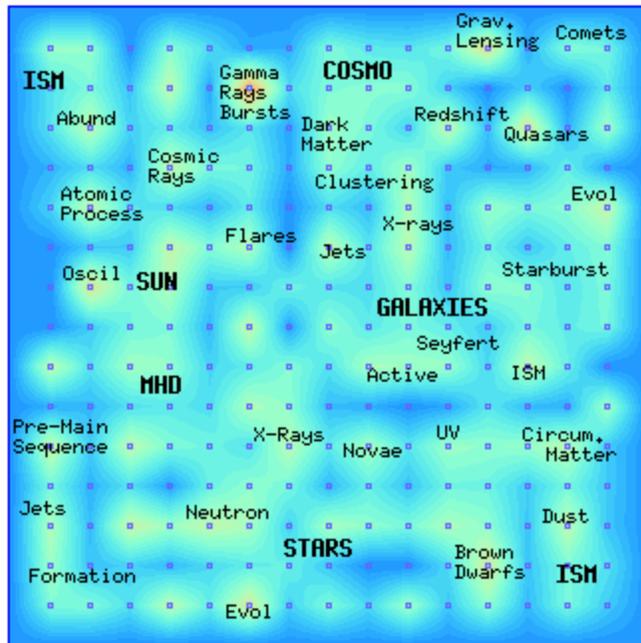
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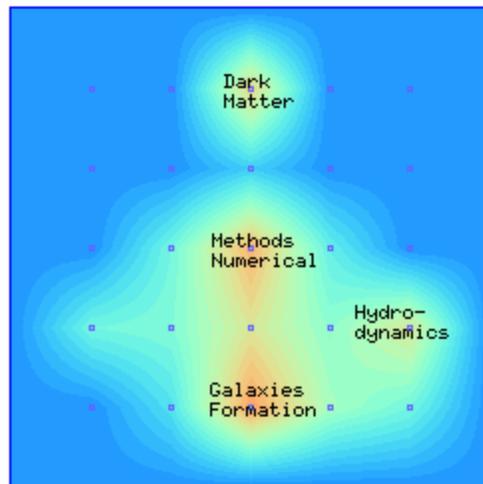
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- Cosmology: Large-Scale Structure of Universe: 98/129**
- Cosmology: Dark Matter: 75/129**
- Methods: Numerical: 62/129**
- Galaxies: Formation: 56/129**
- Hydrodynamics: 18/129**
- Galaxies: Halos: 14/129**

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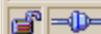


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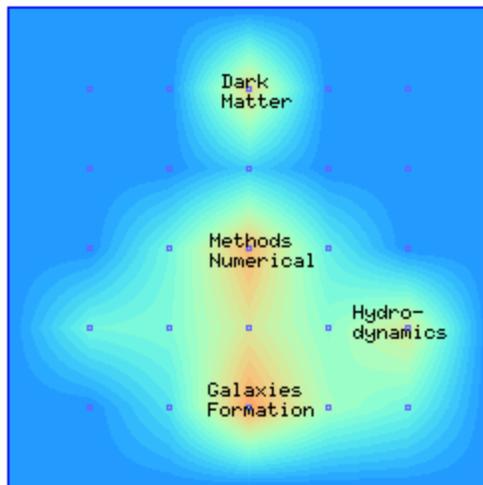
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Bi Hongguang, Fang L.
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2001ApJ...547..574D - February(I) 2001

Halo Properties in Cosmological Simulations of Self-interacting Cold Dark Matter.

Davé, Romeel (1) Spergel, David N. Steinhardt, Paul J. Wandelt, Benjamin D.

Abstract (from ADS): We present a comparison of halo properties in cosmological simulations of collisionless cold dark matter (CDM) and self-interacting dark matter (SIDM) for a range of dark matter cross sections. We find, in agreement with various authors, that CDM yields cuspy halos that are too centrally concentrated as compared to observations. Conversely, SIDM simulations using a Monte

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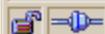
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The Astrophysical Journal, 547:574-589, 2001 February 1
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Halo Properties in Cosmological Simulations of Self-interacting Cold Dark Matter

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Princeton University Observatory, Princeton, NJ 08544

and

Paul J. Steinhardt⁴ and Benjamin D. Wandelt⁵

Department of Physics, Princeton University, Princeton, NJ 08544

Received 2000 June 15; accepted 2000 September 28

ABSTRACT

We present a comparison of halo properties in cosmological simulations of collisionless cold dark matter (CDM) and self-interacting dark matter (SIDM) for a range of dark matter cross sections. We find, in agreement with various authors, that CDM yields cuspy halos that are too centrally concentrated as compared to observations. Conversely, SIDM simulations using a Monte Carlo N -body technique produce halos with significantly reduced central densities and flatter cores. We introduce a concentration parameter based on enclosed mass that we expect will be straightforward to determine observationally and present predictions for SIDM and CDM. SIDM also produces more spherical halos than CDM, providing possibly the strongest observational constraint on SIDM. In our simulations with SIDM cross sections $\sigma_{\text{DM}} \approx 10^{-23}$

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JAIR Information Space

D.R. Wilson, T.R. Martinez. "Improved Heterogeneous Distance Functions." Volume 6, pages 1-34.

Abstract: Instance-based learning techniques typically handle continuous and linear input values well, but often do not handle nominal input attributes appropriately. The Value Difference Metric (VDM) was designed to find reasonable distance values between nominal attribute values, but it largely ignores continuous attributes, requiring discretization to map continuous values into nominal values. This paper proposes three new heterogeneous distance functions, called the Heterogeneous Value Difference Metric (HVDM), the

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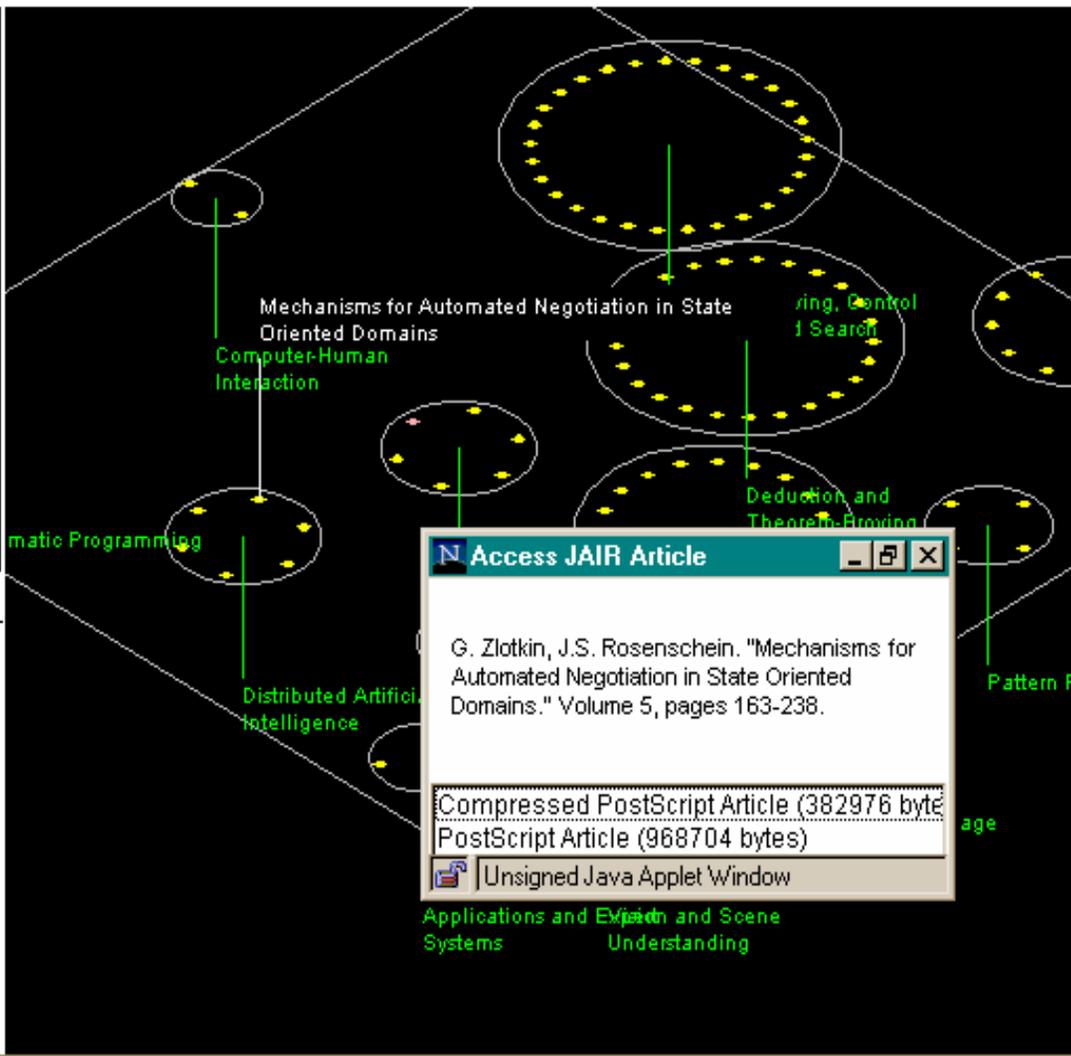
JAIR Information Space

G. Zlotkin, J.S. Rosenschein. "Mechanisms for Automated Negotiation in State Oriented Domains." Volume 5, pages 163-238.

Abstract: This paper lays part of the groundwork for a domain theory of negotiation, that is, a way of classifying interactions so that it is clear, given a domain, which negotiation mechanisms and strategies are appropriate. We define State Oriented Domains, a general category of interaction. Necessary and sufficient conditions for cooperation are outlined. We use the notion of worth in an altered definition of utility, thus enabling agreements in a wider class of joint-goal reachable situations. An approach is offered for conflict resolution, and it

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 - Kasif, S. (1996)
 - Khardon, R. (1995)
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 - Koppel, M. (1994)
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600 73 13 10730 5620361444 10474 display.readme -- Documentation
on the tree-display and animation
module of OC1.

*****
* Copyright (C) 1993, 1994 *
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* Johns Hopkins University *
* Sreerama K. Murthy (murthy@cs.jhu.edu) *
* Steven Salzberg (salzberg@cs.jhu.edu) *
* Simon Kasif (kasif@cs.jhu.edu) *
*****

The purpose of the DISPLAY program is to display, as PostScript(R)
images, planar decision trees and data. We found this to be a useful
tool in visualizing and understanding the tree-building process.

DISPLAY can produce PostScript(R) displays for datasets alone and data
with decision trees (axis parallel or oblique). It can also produce
what we call, for lack of a better term, animations. Please note that
the animation option is still in a very experimental stage.

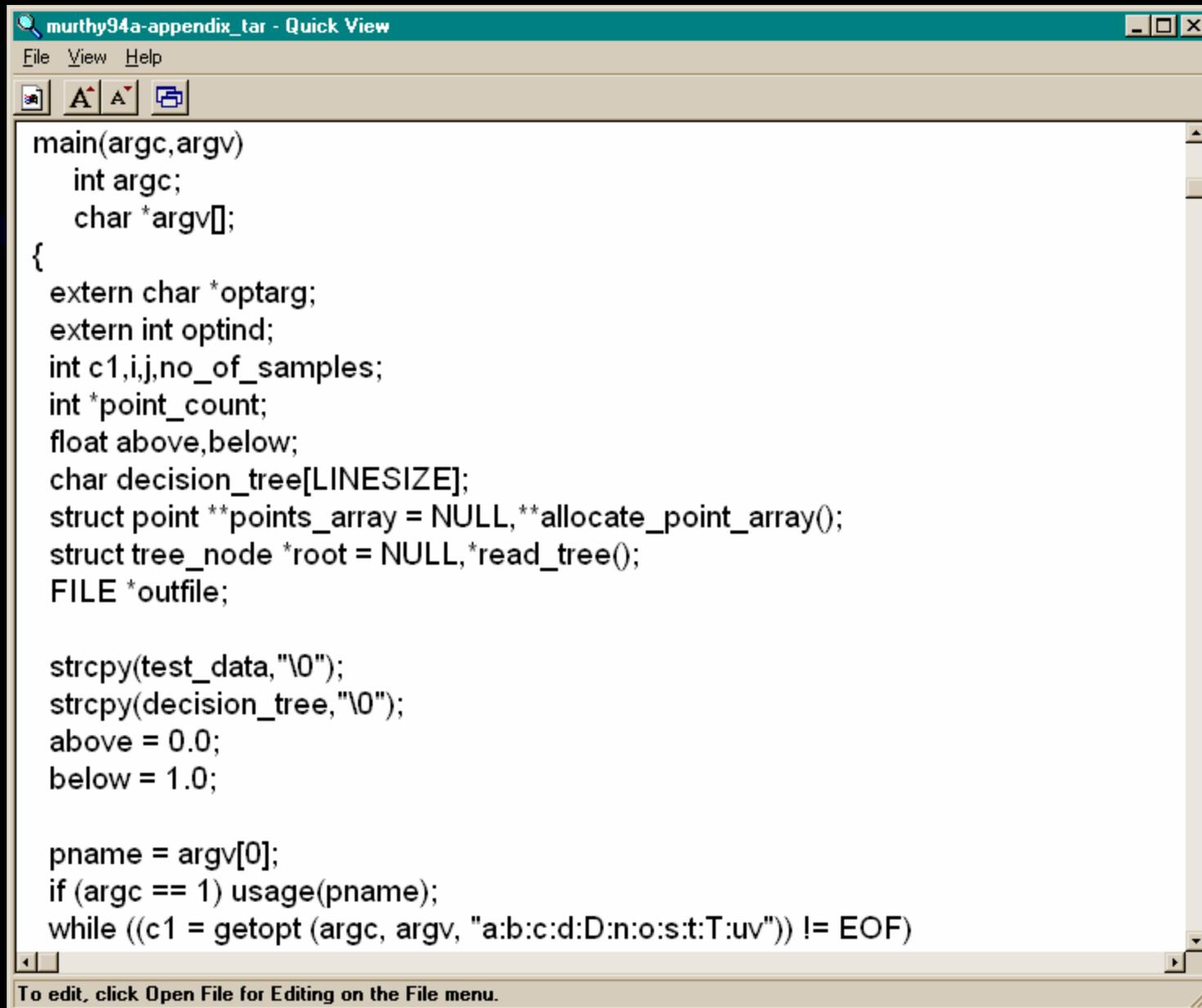
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[*] [A+] [A-] [Print]
/*****/
/* Copyright 1993, 1994 */
/* Johns Hopkins University */
/* Department of Computer Science */
/*****/
/* Contact : murthy@cs.jhu.edu */
/*****/
/* File Name : gendata.c */
/* Author : Sreerama K. Murthy */
/* Last modified : July 1994 */
/* Contains modules : main */
/* Uses modules in : oc1.h */
/*      util.c */
/*      tree_util.c */
/*      classify.c */
/* Is used by modules in : none. */
/*****/
#include "oc1.h"

char *pname;
char test_data[LINESIZE],misclassified_data[LINESIZE];
int unlabeled=FALSE,no_of_dimensions=0,no_of_categories=0;

```

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The image shows a Windows Quick View window titled "murthy94a-appendix_tar - Quick View". The window contains a C program. The code defines a main function that takes command-line arguments and sets up a decision tree. It includes extern declarations for optarg and optind, and declares several variables: c1, i, j, no_of_samples, point_count, above, below, decision_tree, points_array, root, and outfile. The program initializes test_data and decision_tree to "\0", sets above to 0.0 and below to 1.0, and assigns pname to argv[0]. It then checks if argc is 1 and calls usage(pname). Finally, it enters a while loop that reads command-line options until EOF.

```
main(argc,argv)
  int argc;
  char *argv[];
{
  extern char *optarg;
  extern int optind;
  int c1,i,j,no_of_samples;
  int *point_count;
  float above,below;
  char decision_tree[LINESIZE];
  struct point **points_array = NULL,**allocate_point_array();
  struct tree_node *root = NULL,*read_tree();
  FILE *outfile;

  strcpy(test_data,"\0");
  strcpy(decision_tree,"\0");
  above = 0.0;
  below = 1.0;

  pname = argv[0];
  if (argc == 1) usage(pname);
  while ((c1 = getopt (argc, argv, "a:b:c:d:D:n:o:s:t:T:uv")) != EOF)
```

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Cultivate Interactive is a Web magazine which is funded under the European Commission's [Digital heritage and Cultural Content](#) (DIGICULT) programme.

In the Current Issue Issue 3 (January 2001)

The current issue contains feature articles on the RENAISSANCE, SCHEMAS and COVAX projects from the DIGICULT Programme. There is also a review of the IST Nice Conference and an introduction to the National Monuments Record thesauri.

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The RENAISSANCE Project: a Virtual Journey in a Renaissance Court

By [Francesca Tinelli](#) - January 2001

How about experiencing the social life of ancient times, learning about history, but having the same amount of fun as playing a "state of the art" video game?
Francesca Tinelli introduces the RENAISSANCE Project.

Introduction

Virtual Renaissance Court [1] is a research and development project funded by the European Commission as part of the framework of the IST programme. Successfully selected during the first call of the programme in 1999, the project officially started on the 1st of January 2000. The project is being directed by Italian electronic publisher Giunti Multimedia, and involves the German virtual community specialists, Blaxxun Interactive, the Swedish game publishers, Iridon Interactive, and the Italian research institute Istituto Trentino di Cultura (ITC-IRST).



Figure 1: The Palazzo Ducale of Urbino

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Iridon Interactive AB is a developer and publisher of interactive entertainment products for the PC. We create, direct, and produce computer and video games based on original properties.

About ITC

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Le Projet de la RENAISSANCE: un voyage virtuel dans une cour de la Renaissance

Par [Francesca Tinelli](#) - Janvier 2001

Que diriez-vous d'éprouver la vie sociale des périodes antiques, se renseignant sur l'histoire, mais ayant la même quantité d'amusement que jouant un "state de l'art" jeu visuel? **Francesca Tinelli** présente le projet de la RENAISSANCE.

Introduction

Cour Virtuelle De la Renaissance [1] est un projet de recherches et de développement financé par le Commission européen en tant qu'élément du cadre du programme d'clst. Avec succès choisi pendant le premier appel du programme en 1999, le projet a officiellement commencé sur le 1er janvier 2000. Le projet est dirigé par des multimédia électroniques de Giunti d'éditeur d'Italian, et fait participer les spécialistes virtuels allemands en communauté, Blaxxon interactif, les éditeurs suédois de jeu, Iridon interactif, et l'institut de recherche de recherche italien Istituto Trentino di Cultura (ITC-irst).



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B C Delaney, senior lecturer, S Wilson, senior research fellow, A Roalfe, medical statistician, L Roberts, research associate, V Redman, research associate, A Wearn, lecturer, F D R Hobbs, professor of primary care and general practice.

Department of Primary Care and General Practice, Division of Primary Care, Public and Occupational Health, University of Birmingham Medical School, Birmingham B15 2TT

Correspondence to: B C Delaney b.c.delaney@bham.ac.uk

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Coinciding with our theme issue on [the impact of new technologies on medicine and medical journals](#), we asked readers' advice on how we should shorten articles for publication in the paper journal. (The full article would continue to be published on the journal's website.)

We believe that this model of publishing, which we call "ELPS" (for electronic-long; paper-short), will address the sometimes conflicting needs of specialist and generalist readers.

To help readers come to their decision, we asked the following questions:

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- Is it readability or detail on methodology?
- Should we provide as much information as possible to allow critical appraisal, or should we focus on clear presentation?
- When shortening articles for the paper journal, what do you think we should give priority to?

And lest readers thought that combining readability with appraisability was easy, we alerted them to what reports of randomised controlled trials needed to include to be properly appraisable. [click [here](#)]

As well as giving readers the opportunity to send us [comments](#) we had two questionnaires.

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The data in the database has a number of shortcomings.

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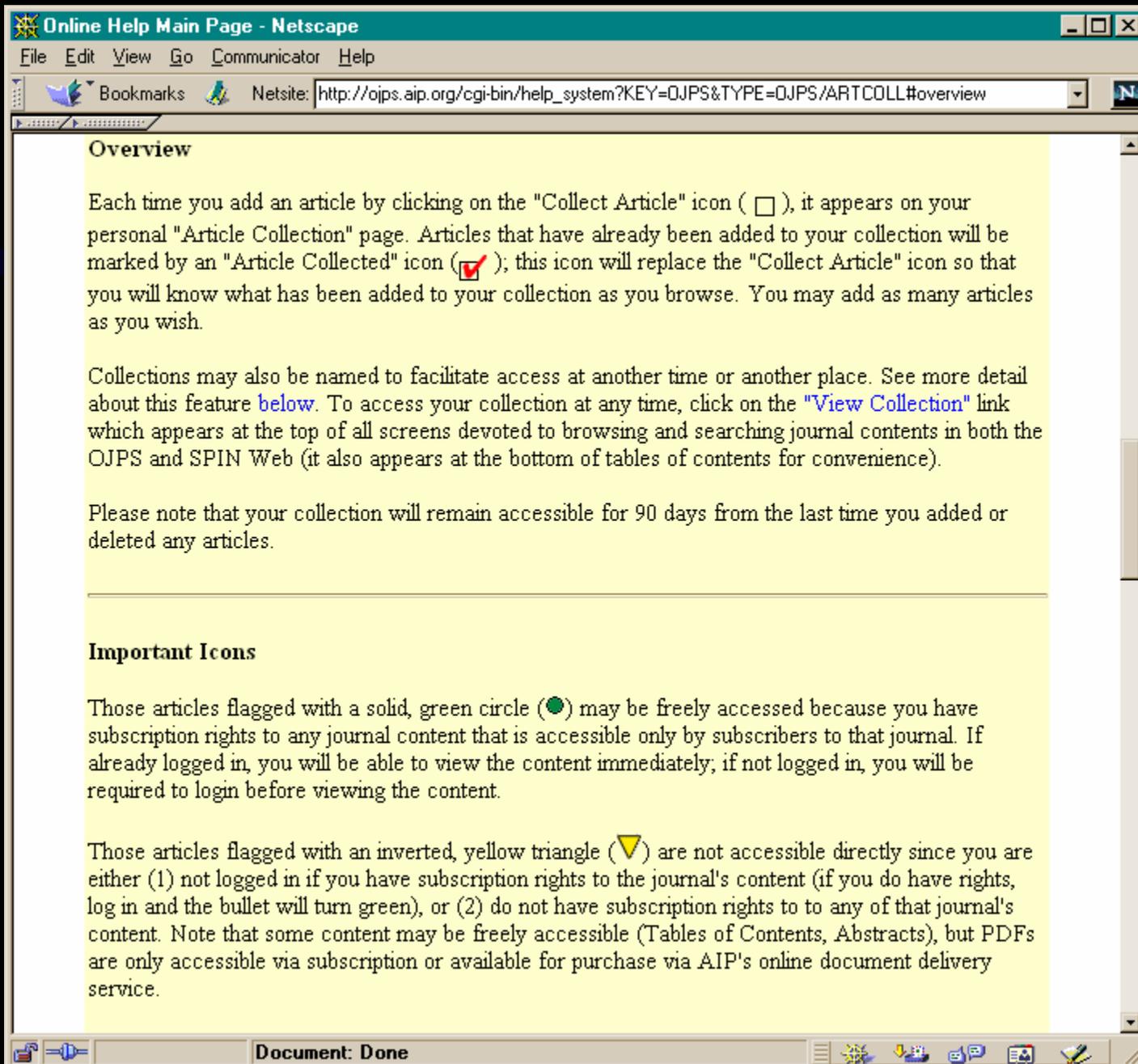
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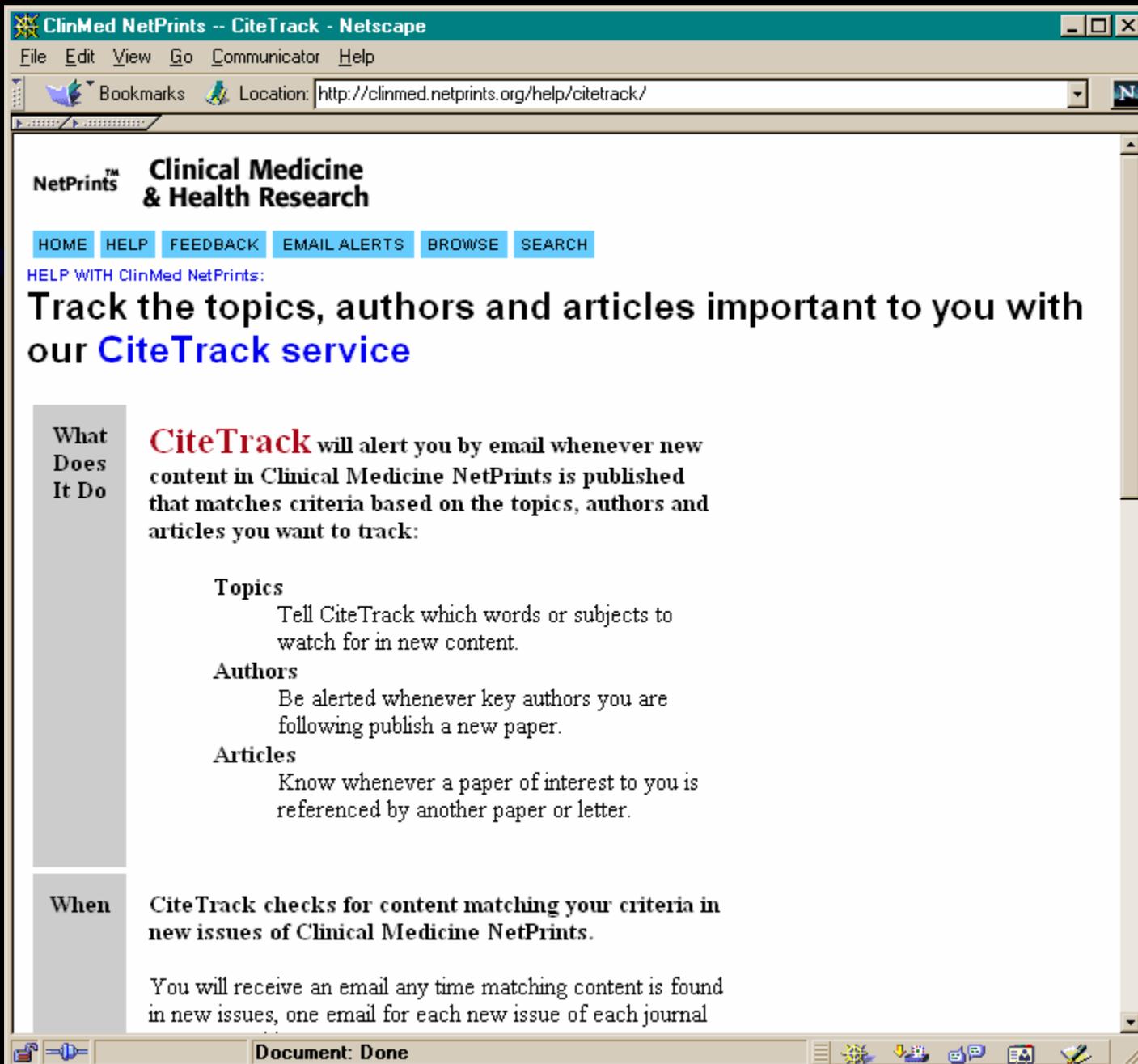
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[†]Institute of Evolutionary and Ecological Sciences, Theoretical Biology & Phylogenetics, University of Leiden, The Netherlands

(Received September 4, 1998; received in revised form November 25, 1998; accepted April 30, 1999; published electronically September 7, 1999)

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In this paper we critically review conceptual and methodological issues of mirror self-exploration research. We conclude that: (1) mirror self-exploration provides evidence for mirror self-recognition; (2) inter- and intraspecific

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Gretchen Vogel

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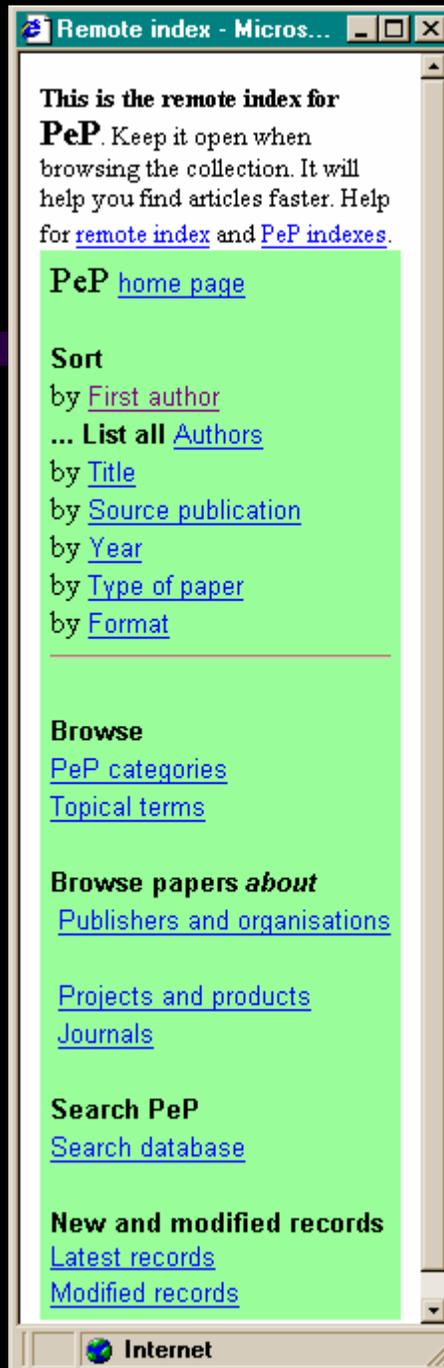
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Abstract

The most innovative online journals are maturing rapidly and distinctive new features are emerging. Foremost among these features is the hypertext link, popularised by the World Wide Web and which will form the basis of a new, highly integrated scholarly literature. Journal integration in this instance seeks to recognise, extend and exploit relationships at the level of journal content—the papers—while maintaining some of the familiar contexts, in some cases journal identities, that define the content hierarchy and inform decision-making by readers. Links are a powerful tool for journal integration, most immediately in the form of citation linking. The paper reviews examples of citation linking in practice, and describes a new system, a link service, which is being developed to support novel and flexible linking mechanisms on the Web. One application of this link service is the Open Journal project, which is working with journal publishers to investigate the most effective ways of

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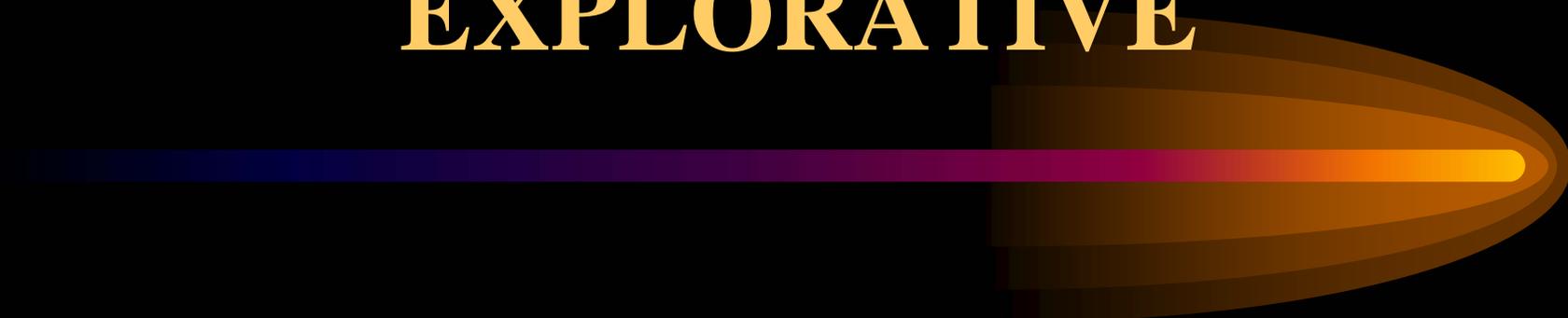
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Presented at the *ICCC/IFIP 5th Conference on Electronic Publishing - ELPUB2001*, University of Kent at Canterbury, UK, July 2001. This version of the paper is an html copy of that presented in the conference

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Oxidized galectin-1 promotes axonal regeneration in peripheral nerves but does not possess lectin properties

Yoshimasa Inagaki^{1,2}, Yoshiaki Sohma¹, Hidenori Horie³, Risa Nozawa¹ and Toshihiko Kadoya¹

Galectin-1 has recently been identified as a factor that regulates initial axonal growth in peripheral nerves after axotomy. Although galectin-1 is a well-known β -galactoside-binding lectin, its potential to promote axonal regeneration as a lectin has not been reported. It is essential that the process of initial repair in peripheral nerves after axotomy is well clarified. We therefore undertook to investigate the relation between the structure and axonal regeneration-promoting activity of galectin-1. Recombinant human galectin-1 secreted into the culture supernatant of transfected COS1 cells (rhGAL-1/COS1) was purified under nonreducing conditions and subjected to structural analysis. Mass spectrometric analysis of peptide fragments from rhGAL-1/COS1 revealed that the secreted protein exists as an oxidized form containing three intramolecular disulfide bonds (Cys2-Cys130, Cys16-Cys88 and Cys42-Cys60). Recombinant human galectin-1 (rhGAL-1) and a galectin-1 mutant in which all six cysteine residues were replaced by serine (CSGAL-1) were expressed in and purified from *Escherichia coli* for further analysis; the purified rhGAL-1 was subjected to oxidation, which induced the same pattern of disulfide linkages as that observed in rhGAL-1/COS1. Oxidized rhGAL-1 enhanced axonal regeneration from the transected nerve sites of adult rat dorsal root ganglion explants with associated nerve stumps (5.0-5000 pg·mL⁻¹), but it lacked lectin activity. In contrast, CSGAL-1 induced hemagglutination of rabbit erythrocytes but lacked axonal regeneration-promoting activity. These results indicate that galectin-1 promotes axonal regeneration only in the oxidized form containing three intramolecular disulfide bonds

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A critical review of methodology and interpretation of mirror self-recognition research in nonhuman primates

pp. 459-468 (doi:10.1006/anbe.1999.1166)

Monique W. De Veer^{*}, Ruud van den Bos[†]

^{*}*Animal Welfare Centre, Utrecht University*
[†]*Institute of Evolutionary and Ecological Sciences, Theoretical Biology & Phylogenetics, University of Leiden, The Netherlands*

(Received September 4, 1998; received in revised form November 25, 1998; accepted April 30, 1999; published electronically September 7, 1999)

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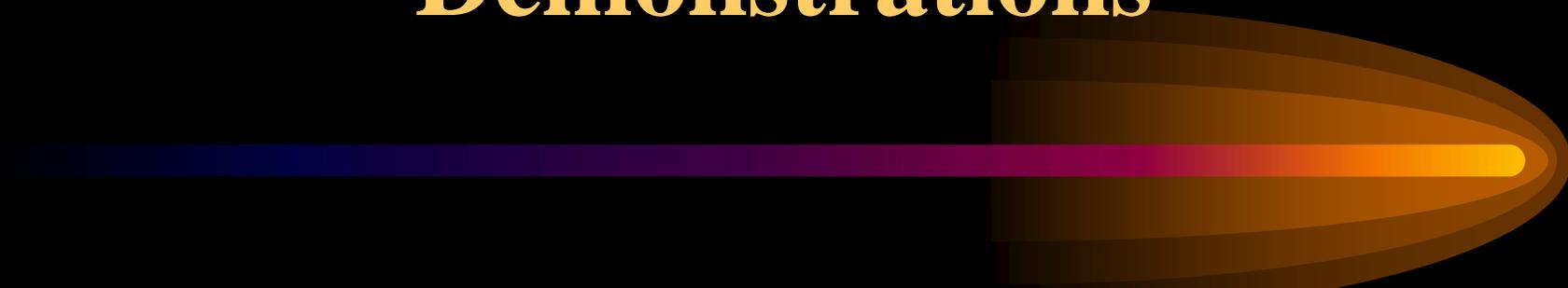
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Promoting Cross-border Communication in an International Web-based Graduate Course

John LeBaron, *University of Massachusetts Lowell*
Jyrki Pulkkinen, *University of Oulu, Finland*
Patrick Scollin, *University of Massachusetts Lowell*

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Abstract

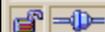
The design and distribution of cross-border higher education courses via global computer networks is a rapidly growing phenomenon (Davis 1998). This paper describes two rounds of an international graduate-level Web-based course in education. It presents research that focuses on the challenge of international, cross-cultural graduate course design in education. Using diverse methods of inquiry, successes and failures of the effort to address cross-cultural concerns are reported. This inquiry informs the work of teachers, researchers, course designers and program developers seeking to expand instructional horizons through international academic collaboration.

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1. Introduction

From January through May 1999, and again in 2000, a computer networked graduate course connected education students from the University of Oulu in Finland with peers from the University of Massachusetts Lowell in a shared, project-centered academic endeavor. The course, *Open & Flexible Learning (OFL)*, was offered

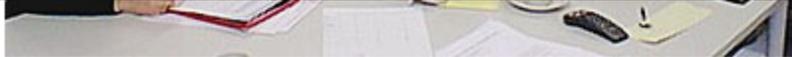
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File Demo 2
Resources linked from the course environment:
[An audio greeting in Finnish about LC Prof from Merja Ruotsalainen](#)

Due to the asynchronous and "distant" nature of the course, students were urged to sustain regular communication with instructors, tutors and peers. They were also responsible for reviewing online or library-based course materials, and to reflect this research in all written communication. Threaded discussion forums offered a capacity for academically focused conversation among peers and between students and members of the instructional team. Students worked on thematic concentrations of their choice, but were expected to show mastery of the broader substantive context. In order to promote cross-border communication and awareness-building, two or three synchronous ISDN video conferences were conducted at critical points in the two course timetables.

Within the course environment, an online "library" provided a collection of resources developed or selected by the instructors and tutors. This library was divided into five major categories. The first contained pointers to "core readings," which every student was required to examine critically at the earliest possible date. This reading provided common ground for subsequent peer communication. The next three library categories divided resources into the "cornerstone" content clusters described above (Pedagogy, Technology, Management & Social Organization.) The fifth category (General Resources & Information) provided glossaries and other reference tools. The library was rounded out with multimedia resources (e.g., streamed video, PowerPoint slides.)

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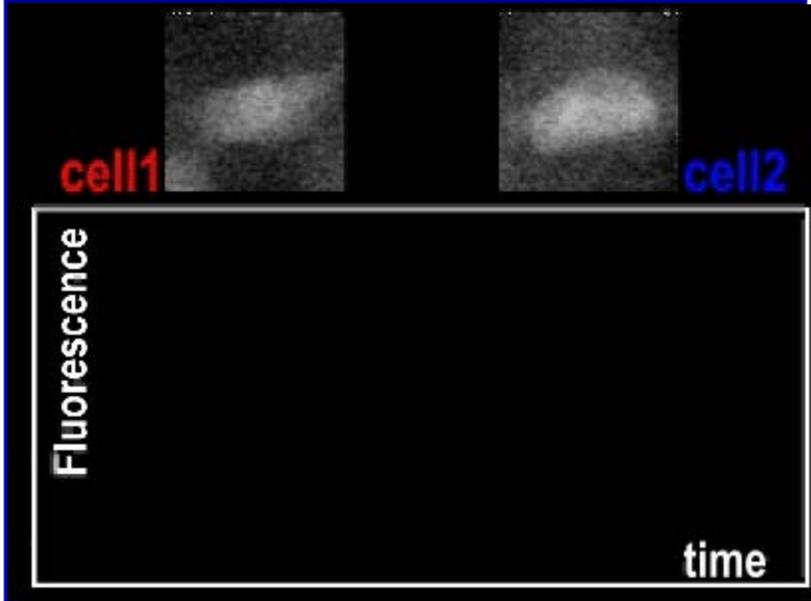
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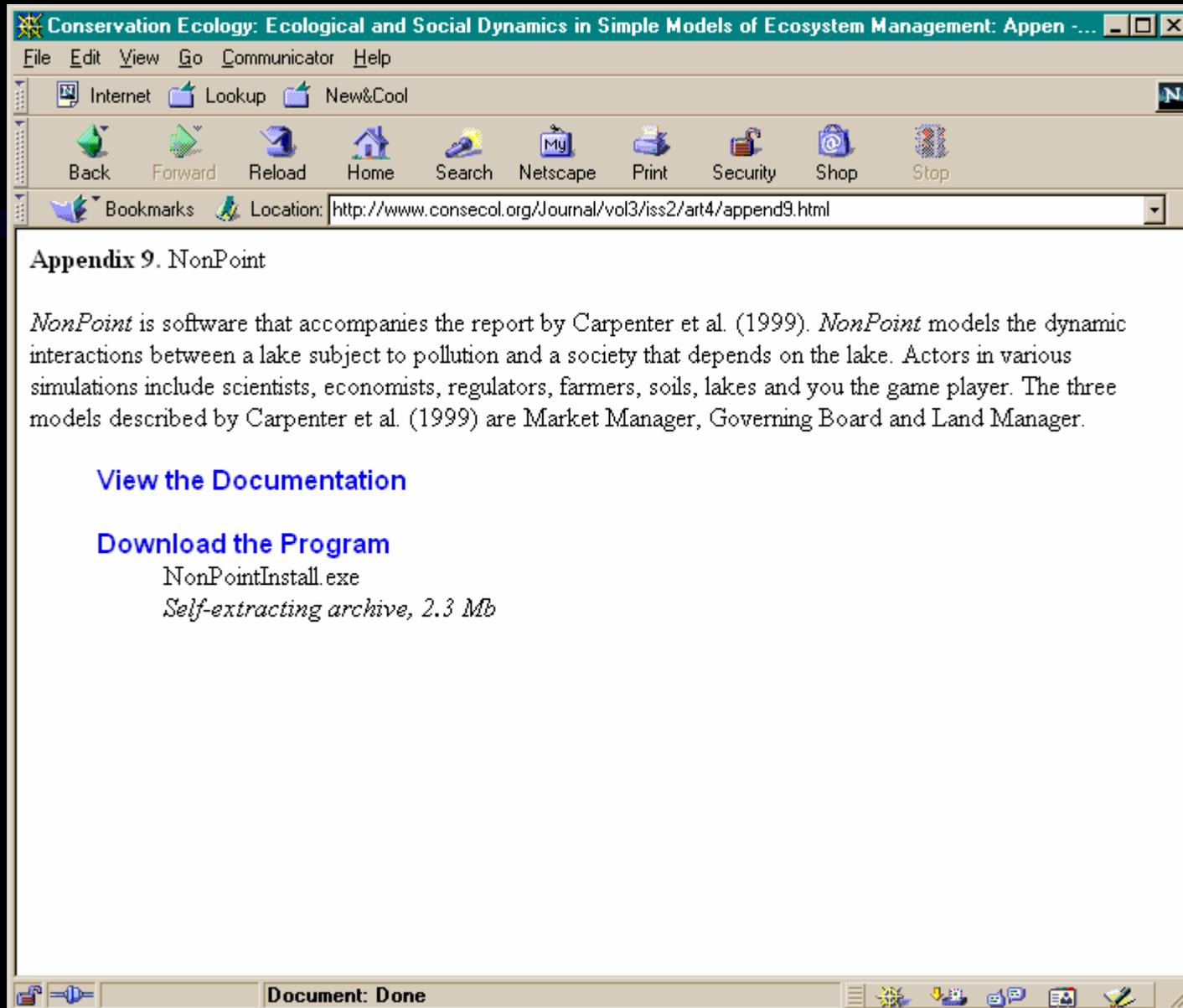
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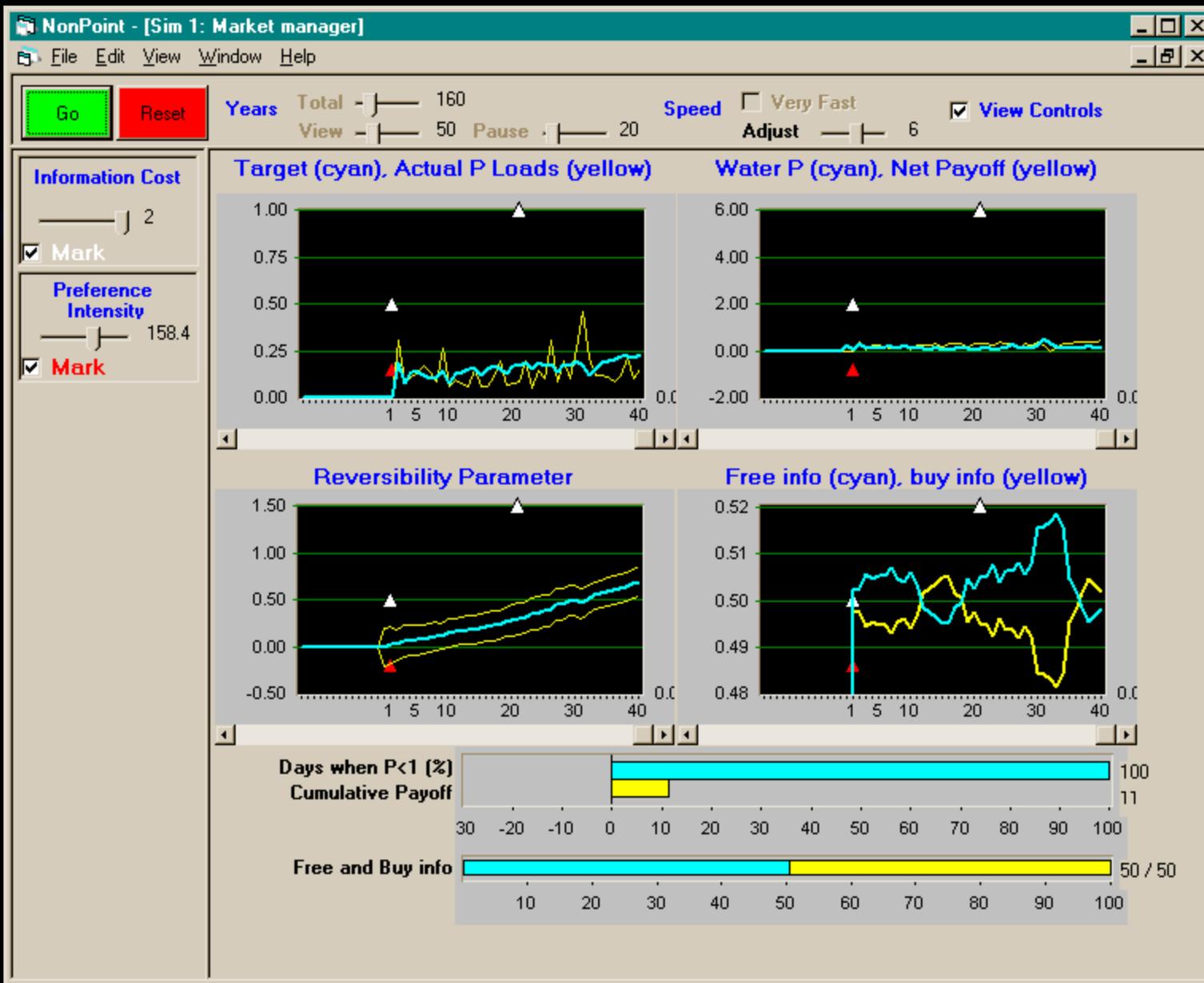
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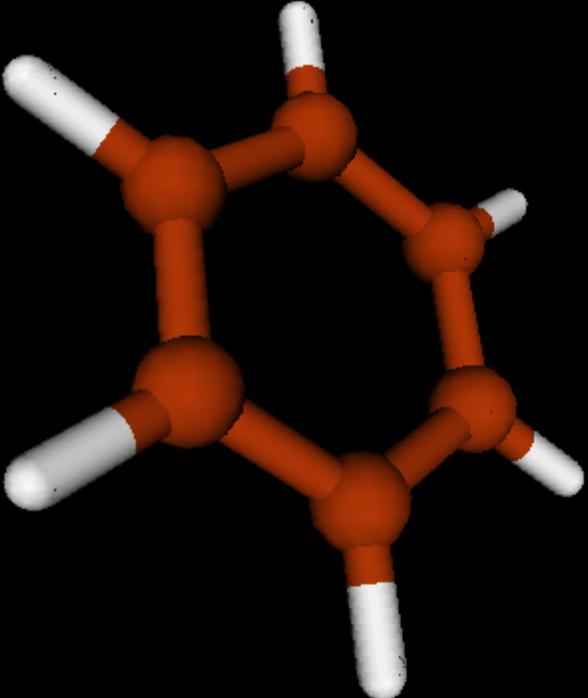
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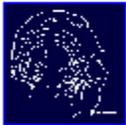
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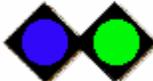
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Conclusions

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Appendix

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in the article

A Resource for Transforming HTML and Molfile Documents to XML Compliant Form

Georgios V. Gkoutos^a, Philip R. Kenway^b, Peter Murray-Rust^c, Henry S. Rzepa^a, Michael Wright^a

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- 3. Definition of Perspectives
- 4. Types of Perspectives
- 5. Issues for Perspectives
- 6. Practice II: Theoretical Perspectives
- 7. Theory in Practice
- 8. Issues for Mediation
- Acknowledgments
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Pre-Print **WebGuide. Gerry Stahl** User Interface

PrePrint under review Published 20 May, 2000

Updated 14 April, 1999

Submission to Journal of Interactive Media in Education

WebGuide: Guiding Collaborative Learning on the Web with Perspectives

Gerry Stahl

Center for LifeLong Learning & Design
and Institute of Cognitive Science
University of Colorado
Boulder, CO, USA

Gerry Stahl: WebGuide: Guiding Collaborative Learning on the Web with Perspectives

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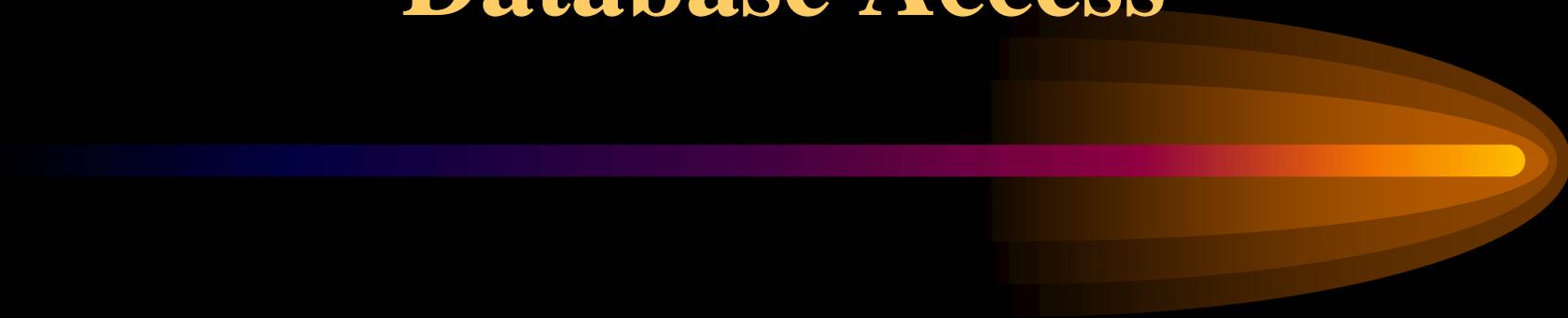
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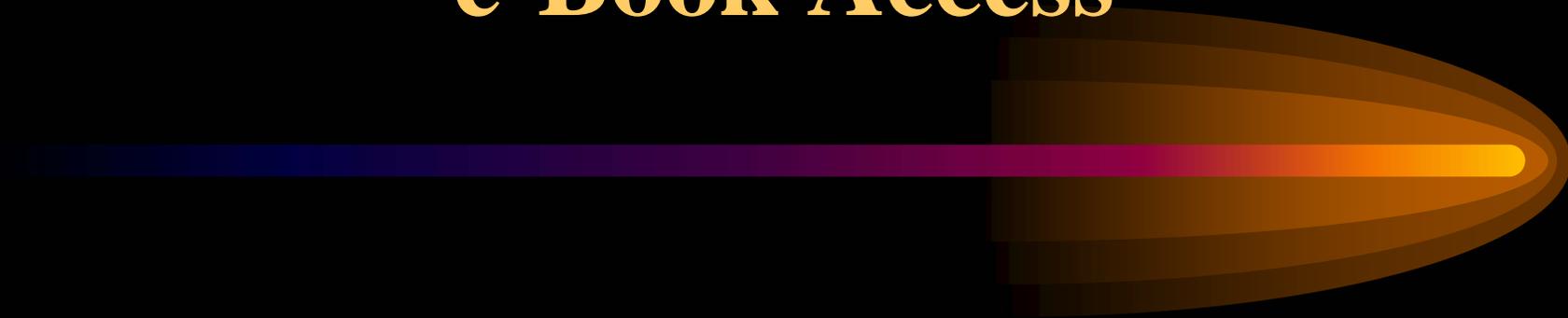
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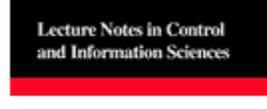
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The Ave Valley, northern Portugal: an archaeological survey of Iron Age and Roman settlement

Martin Millett, Francisco Queiroga, Kris Strutt, Jeremy Taylor and Steven Willis

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Ave Valley Data Sets - Data Help

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All of this data (as well as the underlying geospatial data) can also be downloaded (as comma delimited text files) for import into your own database and GIS software from the [digital archive](#) of this publication available via the ADS website.

Data set Select link to go to query form	Data Description	Number of records
First walk		
Known locations prior to survey	Attribute data for known settlement locations excluding settlements identified during the course of fieldwork. Map search .	61 records
Fieldwalking record	Details relating to the conditions under which individual fields were walked. Map search .	855 records
Geophysical survey details	With links to images	17 records
Quantities of pottery	Pottery quantities per field, broken down by fabric - first walk only.	855 records
Pottery details	Detailed pottery attributes (core dataset) - first walk only.	5537 records (9871 sherds)
Pottery from 823a	Pottery from pit disturbance close to Field 823 - not in core pottery dataset.	38 records
Pottery collected from Terroso castro	Not in main pottery dataset.	5 records
Pottery quantities per hectare	Grouped by fabric.	855 records
Quantities of brick	First walk only.	12 records
Quantities of tile	Quantities tile fabrics per field - first walk only.	855 records

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Ave Valley Survey: Known Site Locations Query Form

[Data help](#) | [Article contents page](#) | [New Site Locations Query](#)

Use this form to query attributes of known sites in the region prior to survey . View [map](#) of region. Select the fields you wish to view, enter qualifiers in the fields to define your search, then select the 'Search' button.

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Return a maximum of records per page from this query.

<input checked="" type="checkbox"/> Site Name	<input type="text" value="Vila Boa"/>
<input type="checkbox"/> District	<input type="text"/>
<input type="checkbox"/> Altitude (metres ASL)	<input type="text"/>
Enter a value or a range e.g. >200 or 50..150	
<input type="checkbox"/> Geology	<input type="text"/>
<input checked="" type="checkbox"/> Site Type	<input type="text" value="Cemetery"/>
<input checked="" type="checkbox"/> Period	<input type="text"/>
<input checked="" type="checkbox"/> Situation	<input type="text"/>
<input type="checkbox"/> Aspect Of Slope	<input type="text"/>
<input type="checkbox"/> Visible Castros	<input type="text"/>

Insert number of visible Castros/Roman settlements within 6km e.g. <=0, >2 etc.

Ave Valley Survey: Known Site Locations Query Result - Netscape

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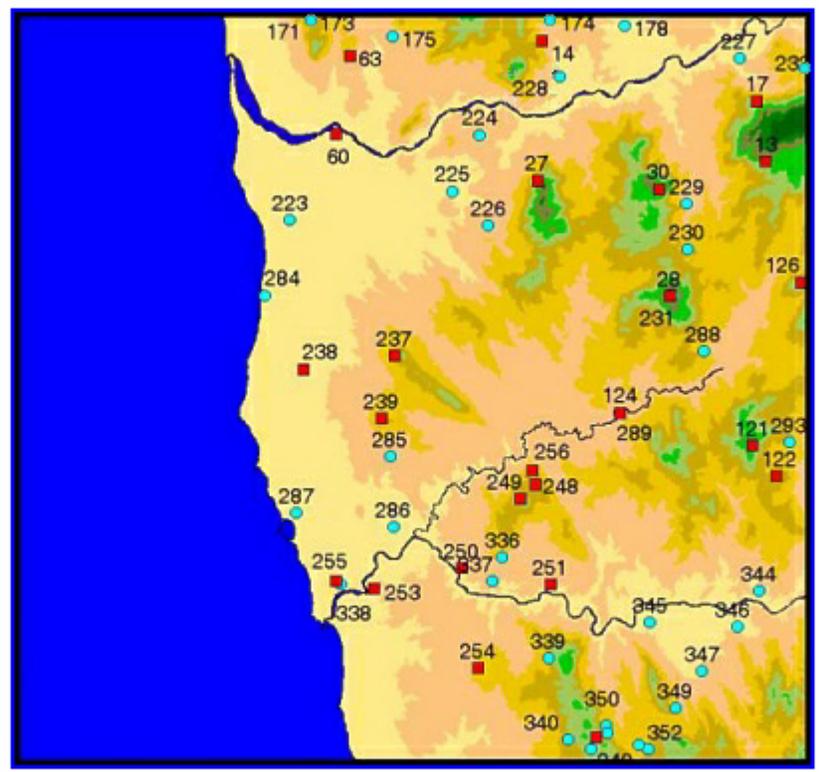
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Map Number	340
Site Name	Vila Boa
Parish Town	Guilhabreu
District	Vila do Conde
Longitude	
Latitude	
X	530774
Y	4572210
Altitude (metres ASL)	140
Geology	Granite
Site Type	Cemetery
Period	Roman
References	Coelho da Silva 1980;Almeida 1969
Data Source	Alarcao 1988
Situation	River Valley Terrace
Aspect Of Slope	south-west
Immediate Gradient (degrees)	4-8
Surrounding Gradient (degrees)	16-20
Visible Castros	1
Visible Roman settlements	0

query home

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Map 1: Map of known settlements prior to survey
Select site to retrieve database entry
Red square = Castro (based on Queiroga 1992); blue circle = Other site (based on Alarcão 1988)



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Supplemental Data

The list below highlights the items from *Science* which have additional online-only components. This area presents material which extends beyond the coverage of the print product to include information such as extended tables of data, explanatory figures, and details of experimental methods. In accordance with the membership policies of AAAS, the summaries and abstracts are available free to registered users, the full text is available to online subscribers, but the supplementary material is freely available to all who are interested.

Volume 292 -- April - June 2001



▼
20 April

- ABSTRACT** **Expanding the Genetic Code of *Escherichia coli***
L. Wang, A. Brock, B. Herberich, P.G. Schultz
FULL TEXT [Supplementary Information](#)

- ABSTRACT** **Enlarging the Amino Acid Set of *Escherichia coli* by Infiltration of the Valine Coding Pathway**
V. Döring, H.D. Mootz, L.A. Nangle, T. L. Hendrickson, V. de Crécy-Lagard, P. Schimmel, P. Marlière
FULL TEXT [Supplementary Information](#)

- ABSTRACT** ***astray*, a Zebrafish *roundabout* Homolog Required for Retinal Axon Guidance**
C. Fricke, J.-S. Lee, S. Geiger-Rudolph, F. Bonhoeffer, C.-B. Chien
FULL TEXT [Supplementary Information](#)

- ABSTRACT** **Fast Backprojections from the Motion to the Primary Visual Area Necessary for Visual Awareness**
A. Pascual-Leone and V. Walsh
FULL TEXT [Supplementary Information](#)

Science -- Fricke et al. 292 [5516]: 507 Data Supplement - Supplemental Data - Netscape

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Supplementary Material

Lipophilic dye labeling

Retinal projections were anterogradely labeled by mounting paraformaldehyde-fixed larval zebrafish in agarose, and pressure-injecting a 1% chloroform solution of DiO, DiI, or DiD (Molecular Probes) between the lens and neural retina to label the entire RGC layer. In some cases, labeled eyes were dissected off shortly before imaging. Confocal projections were then taken with appropriate filters on an Olympus Fluoview microscope. 3D datasets were edited in ImageJ and NIH Image to remove background and fluorescence from the labeled eye(s), flattened using a maximum-intensity projection, and montaged in Adobe Photoshop. For penetrance analysis, both eyes were injected, then scored in a dorsal view using a conventional epifluorescence microscope.

Antibody staining

The zn-5 antibody (also known as zn-8; Developmental Studies Hybridoma Bank) was diluted 1:500. Phenylthiourea-treated embryos were staged by age and morphology [C. B. Kimmel, W. W. Ballard, S. R. Kimmel, B. Ullmann, T. F. Schilling, *Dev Dyn* **203**, 253 (1995)] and processed using standard protocols for antibody staining and the Vectastain ABC-kit (Vector Laboratories).

Eye transplants

Age-matched embryos were collected from wildtype or *ti272z* incrosses, and donors labeled at the one-cell stage with the lineage marker rhodamine-dextran (RhDx). At 5-10 somites (12 hpf), host and donor embryos were mounted in droplets of 1.2% low-melt agarose in fish Ringer's. A small window was opened in the epidermis above their right eye primordia using a drop of mineral oil [G. A. Hyatt, et al., *Development* **122**, 195-204 (1996)]. The host eye was removed and the donor eye inserted using sharpened tungsten microneedles and a wire microloop. The resulting

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EXTENDED



- **Intelligent e-Journals**
- **Knowledge Bases**
- **OpenURL Framework**

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Intelligent E-Journals

Two weeks before Christmas last year, I submitted the posting below to several e-lists and received great interest but no candidates. As it is about Two Before Spring [and a week before St. Patrick's Day [Go Irish!], I am once again soliciting nominations of Intelligent E-Journals.

/Gerry McK

I am interested in learning of **any** and **all** e-journals [or e-magazines or e-newsletters or e-newspapers] that monitor the interaction of a reader with the publication and based on such implicit behavior(s) customizes the publication to match these 'expressed' interests so that the reader is provided with (more) content that in similar / related to the content that he/she had previously selected/read. [Whew, What a sentence! [-)]

[Update: It's kinda like the PageYouMade feature in Amazon.com] [?]

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Contribution from:
[Stephen R. Heller](#)
NIST, SRD
Gaithersburg, MD 20899 USA

Keywords: Electronic Publishing, Copyright, Databases, Publishing Economics, Libraries, Archiving

Outline

- [Abstract](#)
- [Introduction and Background](#)
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Abstract

This manuscript will describe what is now happening in electronic publishing in chemistry and predict what much of scientific publishing in chemistry is likely to look like in 20-30 years from now. As chemists become more interested in and need factual data (chemical and physical properties, chemical structures, and reactions, and so on), the ability to easily submit, retrieve, use, and correct data in a database will prove much more attractive and valuable than the current model of publishing a scholarly manuscript as a separate and independent entity.

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The New Database Journal

What I am proposing in this article is the structure of a new model and form of scholarly communication. In many ways its structure, organization, and staffing is similar to that of the current journal publication, but there are some critical differences. Besides a number of technical issues, there are serious political and financial issues that will have to be solved.

What I envision as the main future repository of scientific information in this new model is a collection of databases, all linked together, wherever useful and feasible. Certainly having direct hyperlinked access to a reference or piece of data is much more useful and valuable than just a bibliographic citation. Certainly these hyperlinks will make the life of a librarian considerably easier and more productive in that there will be fewer requests for locating and obtaining journals and other sources of information, thus leaving more time for problems that require a trained librarian. I definitely believe and realize that not all scholarly chemistry endeavors will fit into this database scheme, since there will always be a need for theories and high-level discussions and overviews of different areas of chemistry, and science in general. Certainly this article is one example of a manuscript that does not fit this new concept, being an all-text article. There will also be a need for articles with various forms of multimedia, and publications such as the Internet Journal of Chemistry (IJC) (14) will be ideal for these. However, in chemistry and molecular biology, databases, which have become so important in the past 10-15 years, will be even more important and valuable resources and commodities in the 21st century.

As a specific example of how the new journals could work and look, I will consider the *Journal of Physical and Chemical Reference Data* (JPCRD) (15). JPCRD, a joint venture of the American Institute of Physics (AIP), the American Chemical Society (ACS), and the National Institute of Standards and Technology (NIST), was first published in 1972. The participation of these organizations is a recognition of the key roles that the federal government, the scientific community, and professional societies play in the endeavor to provide high quality reference data.

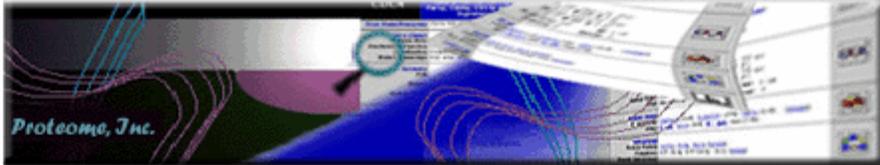
JPCRD is currently a bimonthly print journal. In 1996 its ISI impact factor (11) was 5.82. The crucial requirements for publication are that articles assess the quality of the published information and contain full documentation as to the source of the original measurements and the criteria used for selection and evaluation of the data. Monographs and supplements to the Journal, which are articles too lengthy for a typical print issue, are published separately. The

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Creating a global knowledge network

Paul Ginsparg
Los Alamos National Laboratory, Los Alamos, NM

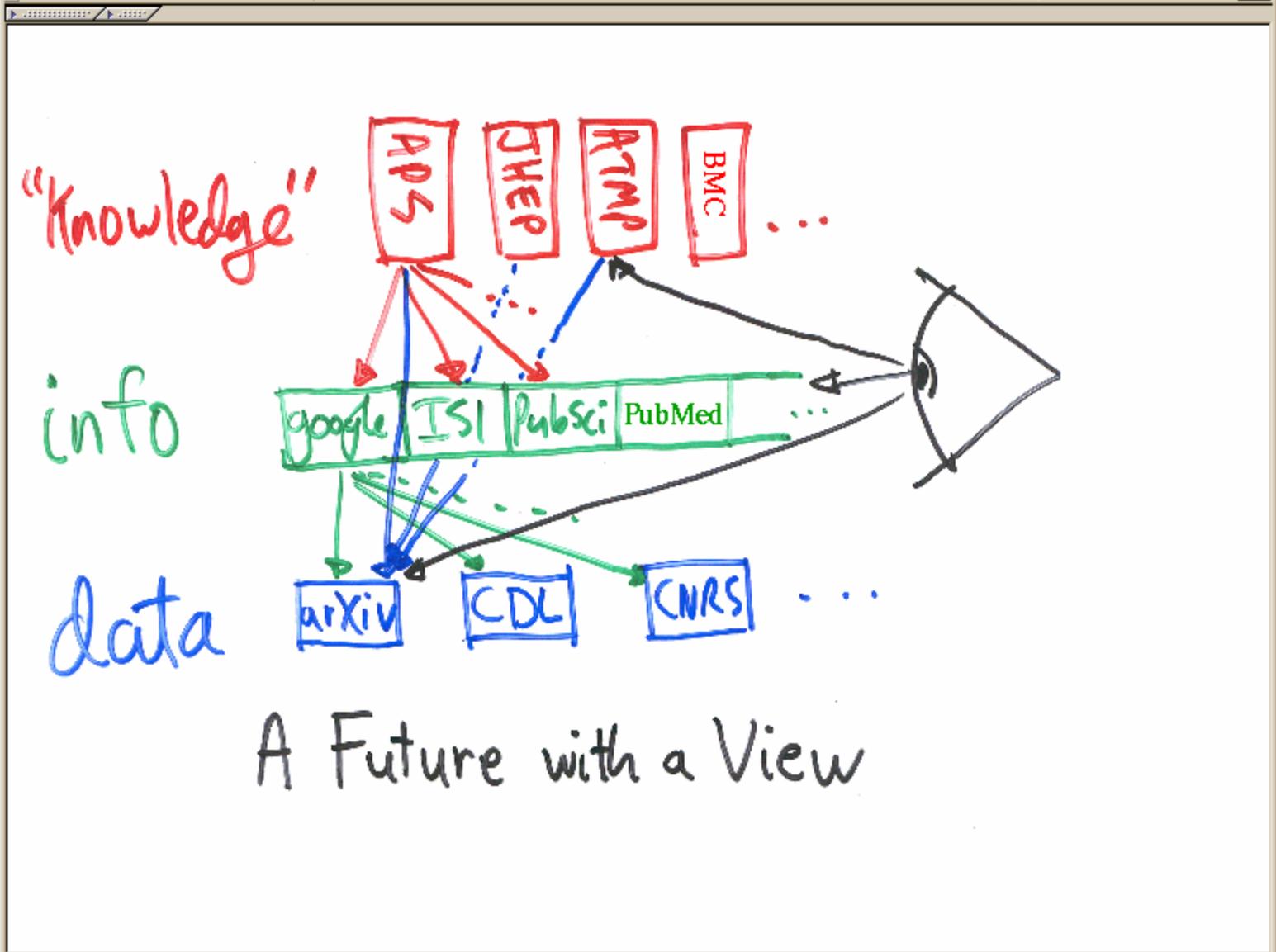
Invited contribution for Conference held at UNESCO HQ, Paris, 19-23 Feb 2001, Second Joint ICSU Press - UNESCO Expert Conference on [Electronic Publishing in Science](#), during session *Responses from the scientific community*, Tue 20 Feb 2001

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Abstract: If we were to start from scratch today to design a quality-controlled archive and distribution system for research findings, would it be realized as a set of "electronic clones" of print journals? Could we imagine instead some form of incipient knowledge network for our research communications infrastructure? What differences should be expected in its realization for different scientific research fields? Is there an obvious alternative to the false dichotomy of "classical peer review" vs. no quality control at all? What is the proper role of governments and their funding agencies in this enterprise, and what might be the role of suitably configured professional societies? These are some of the key questions raised by the past decade of initial experience with new forms of electronic research infrastructure. In the below, I will suggest only some partial answers to the above, with more complete answers expected on the 5-10 year timescale.

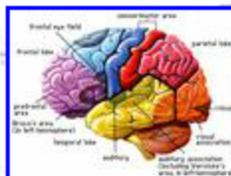
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A Future with a View

KBL(sm):



A Registry of Library Knowledge Bases

For a new registry, I am greatly interested in identifying library-created or library-related Knowledge Bases. A Knowledge Base / Knowledgebase may be defined viewed as a database with a focus on empirical or practical knowledge. In recent years, Knowledge bases have become common components for many businesses and services. The RealNetworks "RealSystem Knowledge Base"

<http://service.real.com/kb/>

is an excellent example of a technical support knowledge base.

I am interested in library-created OR library-related Knowledge Bases

Excellent examples of library-created knowledge bases are the "VID Knowledge Base 2000-2001" for the Virtual Information Desk of the Pennsylvania Inter-Library Online Library (PILOT):

<http://libweb.mnsfld.edu/vid/vid-kb.asp>

AND

Open Linking in the Scholarly Information Environment Using the OpenURL Framework - Netscape

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Open Linking in the Scholarly Information Environment Using the OpenURL Framework

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Abstract

This paper provides insights into the concepts underlying the OpenURL framework for open reference linking in the web-based scholarly information environment. The discussion starts by briefly reiterating the problems with reference linking that were initially described and later addressed as part of the SFX research. Some notions crucial to the understanding of the issues at stake are briefly described: extended service-links, closed and non-context-sensitive linking, open and context-sensitive linking. Then, the paper details the OpenURL framework and reports on its current deployment in the scholarly information environment. As an illustration of the penetration of the OpenURL framework, special attention is accorded to a prototype in which the

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ONLINE feature

Automating Enhanced Discovery and Delivery: The OpenURL Possibilities

David Stern

ONLINE, March 2001
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Imagine a search result page containing links to hundreds of related items, regardless of location, media format, and language. (Well, OK, maybe not language quite yet.) Your initial item is cross-referenced via hypertext links to other materials using descriptors such as:

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Generalizing the OpenURL Framework beyond References to Scholarly Works

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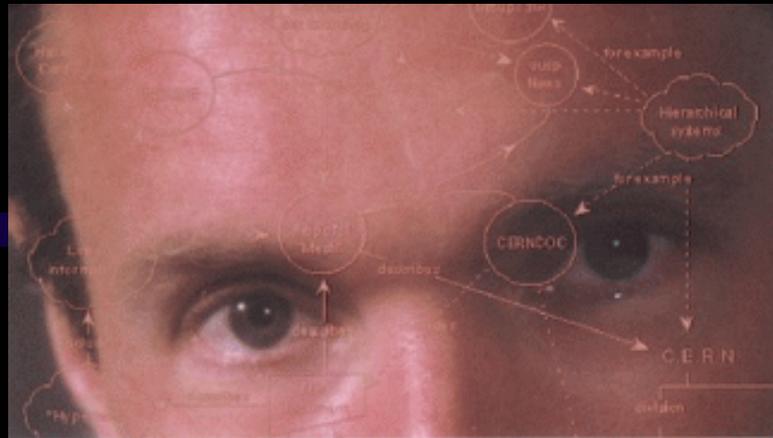
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Abstract

This paper introduces the Bison-Futé model, a conceptual generalization of the OpenURL framework for open and context-sensitive reference linking in the web-based scholarly information environment.

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Weaving the Web

TIM BERNERS-LEE

with Mark Fischetti

THE ORIGINAL DESIGN
and ULTIMATE DESTINY
of the WORLD WIDE WEB
BY ITS INVENTOR

Enquire Within Upon Everything

The vision I have ... is about anything being connected with anything. It is a vision that provides us with new freedom, and allows us to grow faster than we ever could when we were fettered by the ... systems into which we bound ourselves.

*Tim Berners-Lee. **Weaving the Web: The Original Design and Ultimate Destiny of the World Wide Web by Its Inventor.** San Francisco, California: HarperSanFrancisco, 1999, pp. 1-2.*

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DAMN YANKEES

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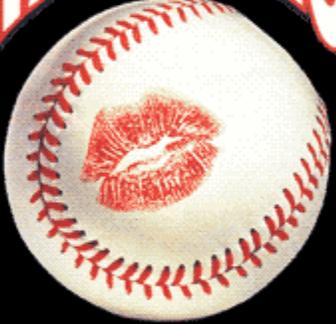
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With Apologies to
Saul Bellow

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