

SciX project: Lowering the technical, economic and social barriers to open scientific publishing

SCI X
SCIENTIFIC INFORMATION EXCHANGE

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www.SciX.net

Background

- **website (1993)**
- **the ITcon journal (1996)**
 - electronic journal of IT in construction
 - publication time 4-5 months
 - 500-1000 readers per paper
- **CUMINCAD (1999)**
 - cumulative index of CAAD
 - *the* resource for CAAD community
 - 800+ registered users
- **survey on e-publishing (2000)**
 - read electronic, publish on paper; don't care who reads
- **W78'96 and W78'2000**
 - web based conference organisation
- **interoperability of CAD software**
 - 1000s data types
 - 100s of programmes

CUMINCAD: Search Results - Netscape

Location: <http://itc.fgg.uni-lj.si/db/use/cumincad/Search?search=Turk&paint=1&Submit=Search>

CUMINCAD: Search Results
cumulative index of computer aided architectural design

Search for:

Tip: Type **new +car** to find only records which do contain 'car' and may contain word 'new'... [all tips and help](#) or try [advanced search](#)

Hits 1 to 6 of 6

details text	citation	check to select
<input type="checkbox"/>	Turk, Ziga (2001) The Reasons for the Reality Gap in CAAD , Architectural Information Management [19th eCAADe Conference Proceedings / ISBN 0-9523687-8-1] Helsinki (Finland) 29-31 August 2001, pp. 156-160	<input type="checkbox"/>
<input type="checkbox"/>	Martens, Bob and Turk, Ziga (1999) Working Experiences with a Cumulative Index on CAD: "CUMINCAD" , Architectural Computing from Turing to 2000 [eCAADe Conference Proceedings / ISBN 0-9523687-5-7] Liverpool (UK) 15-17 September 1999, pp. 327-333	<input type="checkbox"/>
<input type="checkbox"/>	Turk, Z., Cerovsek, T. and Martens, B. (2001) The Topics of CAAD. A Machine's Perspective , Proceedings of the Ninth International Conference on ComputerAided Architectural Design Futures [ISBN 0-7923-7023-6] Eindhoven, 8-11 July 2001, pp. 547-560	<input type="checkbox"/>
<input type="checkbox"/>	Turk, Ziga (1991) Integration of Existing Programs Using Frames , The Computer Integrated Future, CIB W78 Seminar September, 1991. Unnumbered : ill. includes bibliography.	<input type="checkbox"/>
<input type="checkbox"/>	Martens, B., Turk, Z. and Cerovsek, T. (2001) Digital Proceedings: Experiences regarding Creating and Using , Architectural Information Management [19th eCAADe Conference Proceedings / ISBN 0-9523687-8-1] Helsinki (Finland) 29-31 August 2001, pp. 25-29	<input type="checkbox"/>
<input type="checkbox"/>	Turk, Ziga (1993) A Network Based Collaboration Framework , [eCAADe Conference Proceedings] Eindhoven (The Netherlands) 11-13 November 1993	<input type="checkbox"/>

No more hits.

© CUMINCAD 2001

2.3 How do you retrieve interesting publications?

Having been alerted somehow about the existence and potential interest of a particular publication, how do you retrieve it.

Grade between 1=never ... and 5=very often

Free material on paper:

2.5 | contact the author, his department etc. and ask for a paper copy.

Paid for material on paper:

3.1 | go to the department or university library and fetch a copy.

3.1 | order the original publication through web, bookstore or library service.

Free material over the Internet:

2.7 | contact the author and ask for a digital copy

3.9 | download a version from the author's website

3.5 | download from a publisher's website.

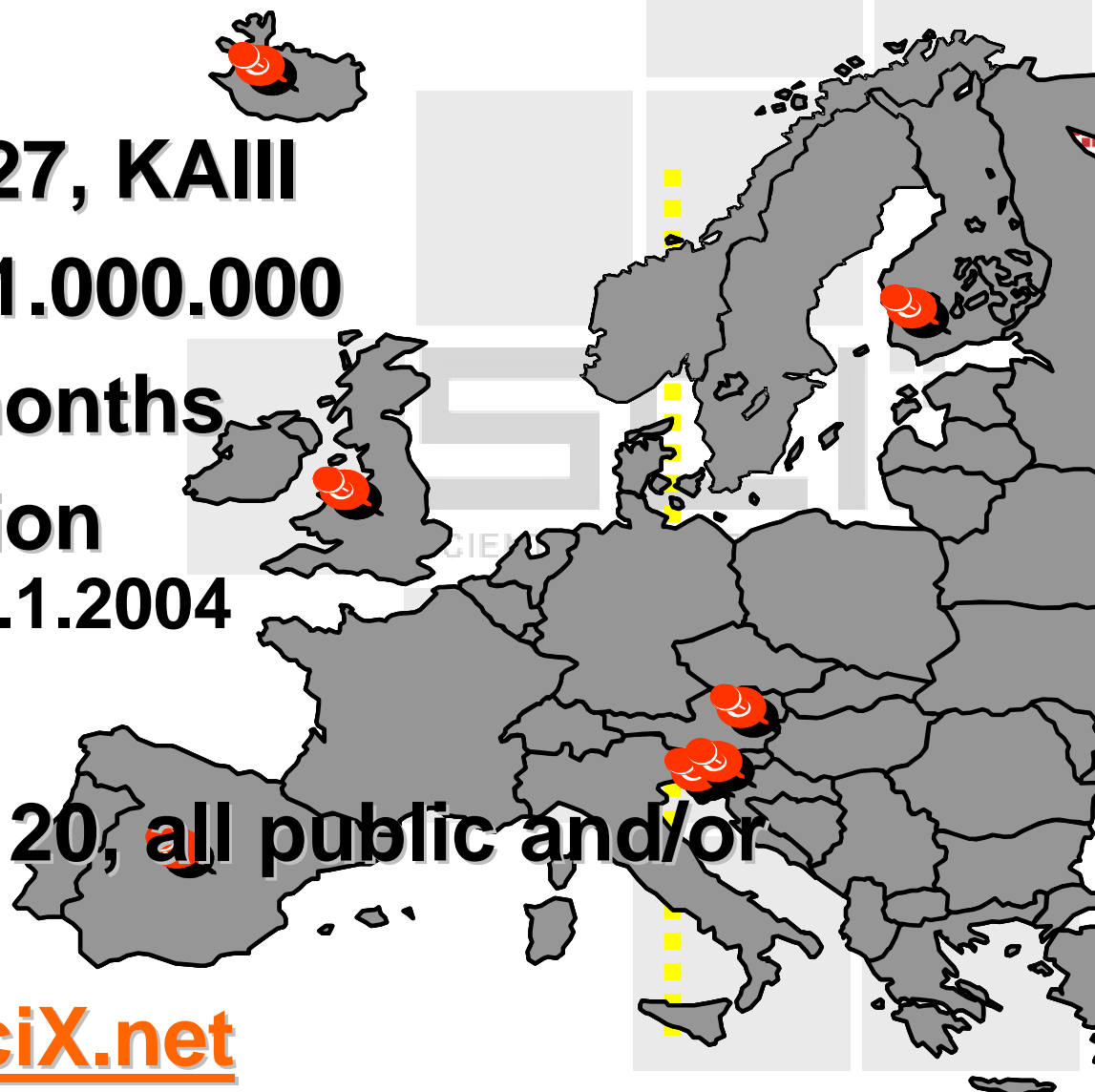
Paid for material over the Internet:

2.0 | download from a publisher's website (subscription or site licence)

1.7 | download from a publisher's website (pay per view)

SciX project

- ❑ IST-2001-33127, KAIII
- ❑ EU funding €1.000.000
- ❑ 200 person months
- ❑ Project duration
 - ❑ 1.2.2002 - 31.1.2004
- ❑ Partners: 7
- ❑ Deliverables: 20, all public and/or open source
- ❑ Web: www.SciX.net



Open, self organising repository for scientific information exchange

- ■ demonstrate that the Internet enables new business models for the scientific publishing process
 - as is model
 - to be model
- ■ enable the scientists
 - create digital archives vs. web pages
 - time- and cost-efficient access to their peers' work,
 - create an on-line community of authors and readers
 - disseminate scientific work to non-scientists, like engineers or architects

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Current situation

- ❑ do research
- ❑ write paper for free
- ❑ review for free
- ❑ edit journal for free
- ❑ give away the copy-right for free

- ❑ buy the results of the above
(subscribe to journal)

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Webtop publishing

- ■ ground up, grassroots approach
- ■ many small publishers
 - universities
 - professional organizations
 - individuals
- ■ result today: website
- ■ result tomorrow: digital archive

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Support for digital archives

❑ archive

- ❑ publishing and archiving platform
- ❑ workflow support: submission, review, revision, publishing, readership monitoring ...
- ❑ self management, classification

❑ cross archive

- ❑ metadata harvesting ... **and**
- ❑ searching
- ❑ user management
- ❑ content clustering
- ❑ full content

❑ non technical

- ❑ prestige, image, quality certification

Draft architecture



readers
authors
librarians
publishers



server:user communication: http, HTML

server:server communication: http, XML, SOAP, WSDL



digital library
(e.g.
CUMINAD,
ITcon)

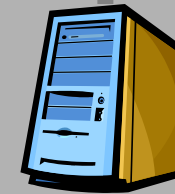
service
providers



digital library
hosting



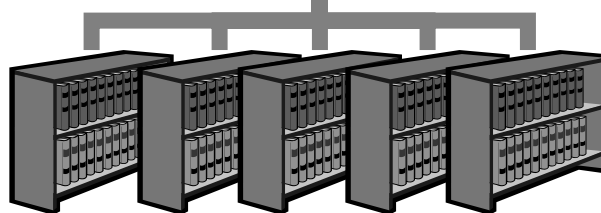
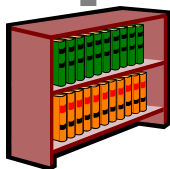
wrapper service



indexing



user
management



How hard can it be?

- ❑ write your own software
- ❑ buy commercial software
- ❑ get openSource software, compile, install ... **maintain**

- ❑ **SciX**
 - ❑ rent infrastructure
 - ❑ customize using forms on the Web
 - ❑ demo ...

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CREATE A NEW DATABASE: Setting up new database - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://www.scix.net/cgi/create/NewTableForm

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Setting up new database

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CREATE A NEW DATABASE

First you must select what kind of a database you need, then give it a title, tell us who will manage it, and choose a password for it. Please make sure that the email address is correct - to this address we will send a confirmation code that will be required to run the database.

Select what kind of database you want to set up:

Enter short title of the database:

Enter name of the manager:

Enter correct email address of the manager:

Enter a password that will be used to access database management twice:

Snap your fingers to proceed:

select

select

addressbook

bibliography

classifieds

collectors-records

companies

documents

faq

guestbook

links

members

news

open-archive

people

custom ...

from my data ...

like this one

ation of the predefined

lection


ail.com

Document: Done (0.438 secs)

CREATE A NEW DATABASE: Setting up your database - Mozilla


File Edit View Go Bookmarks Tools Window Help

http://www.scix.net/cgi/create/NewTable?structureTemplate= [Go] Search



Setting up your database

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CREATE A NEW DATABASE



Congratulations, your database is ready!

The main URLs to access it are:

- ◆ The main menu for your end users is at <http://www.scix.net/cgi/use/open-archive7816/Home>.
- ◆ The menu for you, the administrator is at <http://www.scix.net/cgi/use/open-archive7816/U=admin&P=aaa/AdmMenu>. Use this link to further configure this application. You can also access this menu from the **Main menu** after you **login** as admin.

You should bookmark those links and also print this page out.

Select options from toolbar:



Template open-archive: New Publication - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://www.rent-a-db.com/tt/open-archive/Add Go Search

Template open-archive New Publication

[Show less help](#) | [Display manual](#)

title: A name given to the resource. *(Starts with a capital and followed by up to 100 characters.)*

Typically, a Title will be a name by which the resource is formally known.

creator: An entity primarily responsible for making the content of the resource.

Examples of a Creator include a person, an organisation, or a service. Typically, the name of a Creator should be used to indicate the entity.

subject: The topic of the content of the resource.

Typically, a Subject will be expressed as keywords, key phrases or classification codes that describe a topic of the resource. Recommended best practice is to select a value from a controlled vocabulary or formal classification scheme.

description: An account of the content of the resource.

Typically, a Subject will be expressed as keywords, key phrases or classification codes that describe a topic of the resource. Recommended best practice is to select a value from a controlled vocabulary or

Document: Done (0.204 secs)

Conclusions

- ❑ **SciX will use WSDL, XML and OAI standards for inter-archive data exchange**
- ❑ **SciX will trivialize the creation and management of open archives**
- ❑ **SciX is identifying needs for other kinds of cross archive collaboration**
- ❑ **psychological, social and economic problems remain**
 - ❑ **a network of small, independent publishers and content providers would make individual effort like ours stronger**

The end



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