UNIVERSITY OF Southampton
School of Electronics and Computer Science

Professional and Legal Issues
Week 3

1010-11
INFO2009 (Professional and Legal Issues)

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Plan for Today

UNIVERSITY OF Southampton
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Part 1

Coursework 1 – Annotated bibliography

Have a break

Part 2

Academic Integrity in and Ethical Context

Exemplar Annotated bibliography

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Bartels, F. and L. Bartels (2002). Reflections on the RCDS laptop program after three years.[Online] Available: http://www.learningwithlaptops.org/files/3rd%20Year%20Laptop%20Prog.pdf

This report provides a perspective from the Rye Country Day School in NY State after more than three years of implementation. Provides useful resource information, primarily aimed at independent schools considering implementing one-to-one laptop programs. Authors are a couple who are both parents and technology consultants to the Rye Country Day School.

The authors use the term "virtual playground" as a metaphor for describing ways that ubiquitous computer access can be both engaging and enlightening.

- Mathematics education."*Geometer's SketchPad* is.. a virtual playground in mathematics education in the secondary schools. It is rapidly becoming an essential tool for teaching Geometry. Graphing programs [and spreadsheets] are increasingly being used for other math courses. *Mathematica* is being used with increasing frequency in the advanced Calculus classes."
- Science education. "Students can experience virtual worlds where the parameters that control natural forces and processes can be easily manipulated and the effects observed. …This allows for rapid experimentation with different designs… Real models should be built and tested but such models can be built with a much greater depth of understanding if there is first experimentation with virtual models." A second virtual playground type involves use of "computers and probes to do the dull and tedious work involved with data collection" allowing students to focus on problem solving, analysis and theory building.

The one-page project summary (p. 2) is an interesting model or template for reporting basic information about ubiquitous computing projects.

http://bit.ly/9B32dx

Two Classic Annotation Styles

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1. Descriptive
   - A compact narrative
     - provides the reader with an overview of the contents to the selected item
2. Critical
   - A compact narrative
     - providing an overview
   - +
     - A critical appraisal of the strengths and weaknesses of the argument
   - And/Or
     - An analysis of the perspective

Writing guidelines?

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Remember your audience

- Make what you say clear
- Help them understand
- Highlight the important
- Share your insights
- Help them find the original source
- Read it aloud to check how it sounds

Guidelines

INFO2009 Annotated Bibliography - Handout

How to review a paper and create an annotated bibliography

With thanks to Hugh Davis http://www.ecs.soton.ac.uk/~hcd on whose work this document was originally based

Introduction

Reviewing a paper is a complex skill that takes practice to acquire.

Preparing an annotated bibliography is a task which will familiarise you with the literature and practice reviewing and evaluating academic papers.

When you prepare an annotated bibliography the purpose is to provide:

a. **a complete reference** for the paper, including any web reference
b. **a short commentary/annotation** on the paper which describes and evaluates the content and to reflect on its particular value to you:
   - **informing the reader** how the paper is of interest and relevant to the chosen topic
   - **identifying particular points of interest** in terms of research methodology, approach, contribution to the field of research
   - **explaining the value of the work** to future readers

What to include in your annotation

1. **A full reference (in the specified format) including any web reference**
2. **A short list of key words**
3. **A brief summary of the document in your own words**
   - explaining the main points
   - describing the topics covered
   - describing the approach of the document

   ((appropriate indicating any findings

In effect your summary will be the abstract you would have written if you had written the paper. Your summary will be written in your own words. It will be up to six sentences long around 200-300 words.

4. **A brief evaluation of the document**

Explain to the reader the ways in which you find the document is useful.

This **can include**:

- How it compares with other sources in your bibliography (or other papers which you considered)
- Reasons why the document is particularly reliable or authoritative
- What is the purpose of the document

Notes:

There are many sorts of academic papers including technical papers, review papers, thought experiments, experiences papers and evaluations. In addition you may find information as 'grey literature' in official reports, commercial white papers, and web sites.

The contents of the evaluation part will vary according to the type of document you are reviewing. You can expect a different set of evaluations for an academic paper compared to the evaluation for a white paper, official report or authoritative website.

You can use the opportunity of creating an annotated bibliography to familiarise yourself with some form of bibliographic software which you can use to help store and organise the references of the documents which you have reviewed.

Develop your judgement

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- Orientation
  - **sources**
    - Google search
    - Wikipedia
    - Google Scholar
  - **approaches**
    - Skim reading
    - Mind mapping
    - ++
- Research
  - **sources**
    - Trusted sources
    - TD-Net
    - ACM digital library
  - **approaches**
    - Skim reading
    - Deep reading
    - Sorting and sifting
    - ++

A prompt

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- Critique…
  - **Provenance**
  - **Relevance**
  - **Objectivity**
  - **Method**
  - **Presentation**
  - **Timeliness**

Evaluation Matrix

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	1	2	3	4	5	Mark
Who? – is the author	Author background is unknown	Some evidence author works in this area but few articles	Evidence of some publications in this area by author	Author has several published works in this area	Author is a known authority in this area	
Score						
What? – is the relevance of points made	Content and arguments of little or no relevance to the task	Only of peripheral/little relevance to task being undertaken	Some of the content is relevant to task requirements	Several points made are of relevance to task	Content and arguments closely match your needs	
Score						
Where? – context for points made	Situation to which author applies points is different to that of the task	Minimal similarity between author's context and the task context	Author's situation and that of the task have some similarity	Reasonable similarity between author's and task context	Author's context and that of the task very similar	
Score						
When? – was the source published	Date is unknown or older than 20 years old	Old reference – between 10 and 20 years old	Reference is between 5 to 10 years old	Recent reference is 2 to 5 years old	Up-to-date source – published in last two years	
Score						
Why? – author's reason/purpose for writing the article	No apparent motivation seen in article	Newspaper (or online) article opinion – not evidenced	Trade magazine/ commercial paper – might have some bias	Book source/ conference paper or subject interest forum/ blog	Academic journal paper – peer reviewed	
Score						
Source/Reference:					**Total marks**	

http://www.edshare.soton.ac.uk/6041/

This is a frequently cited paper

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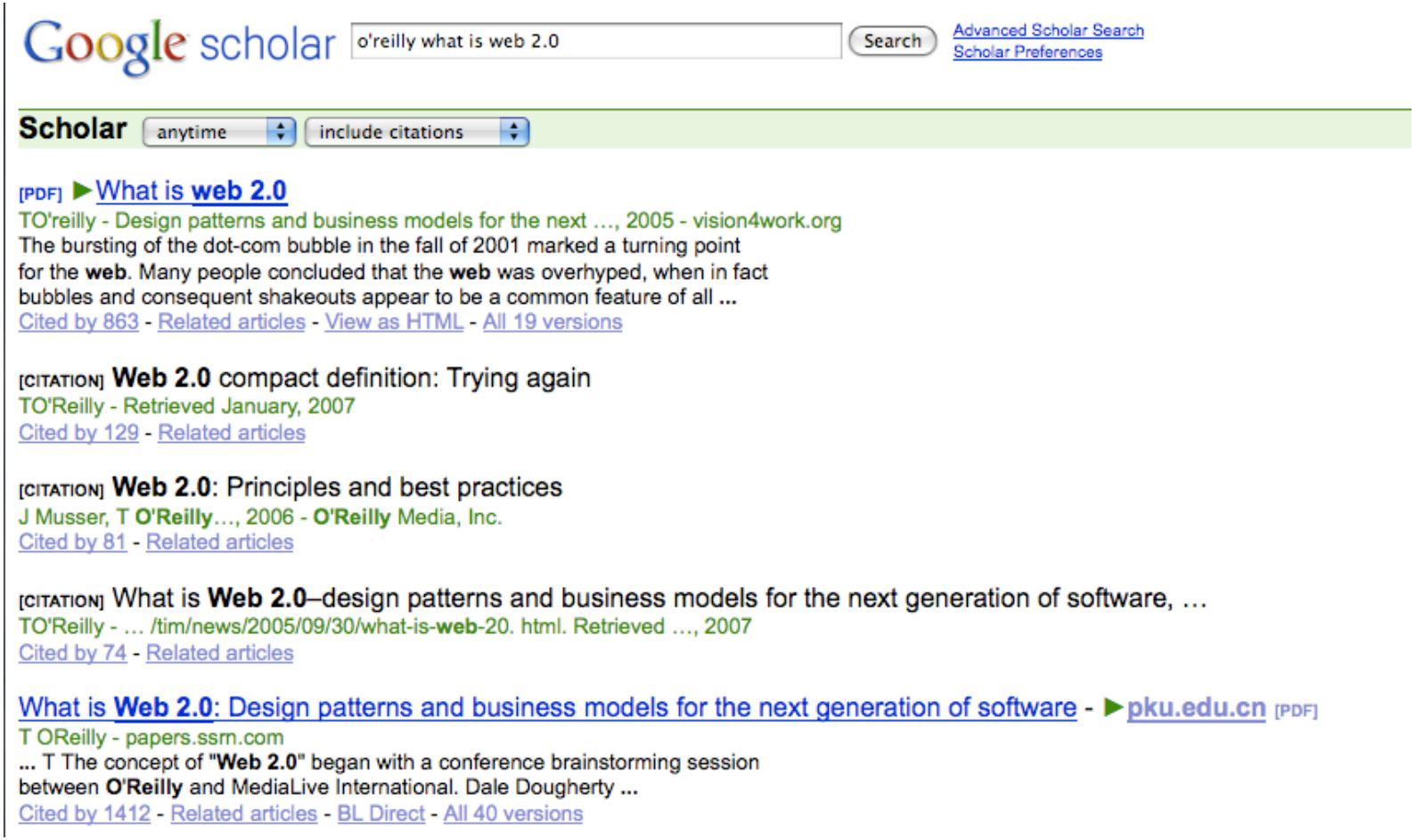

SSRN as source…

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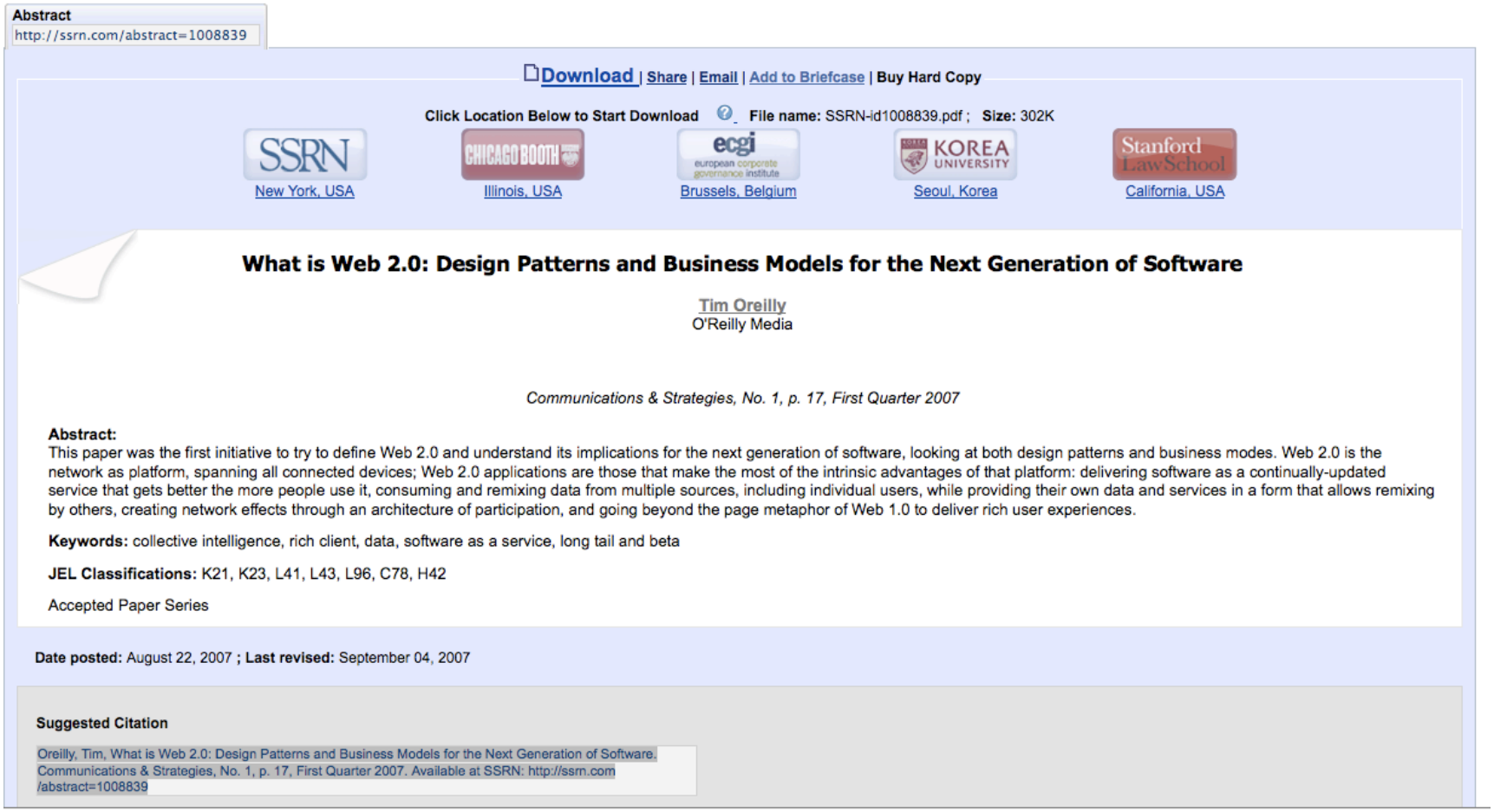

http://www.ssrn.com/

Other Places?

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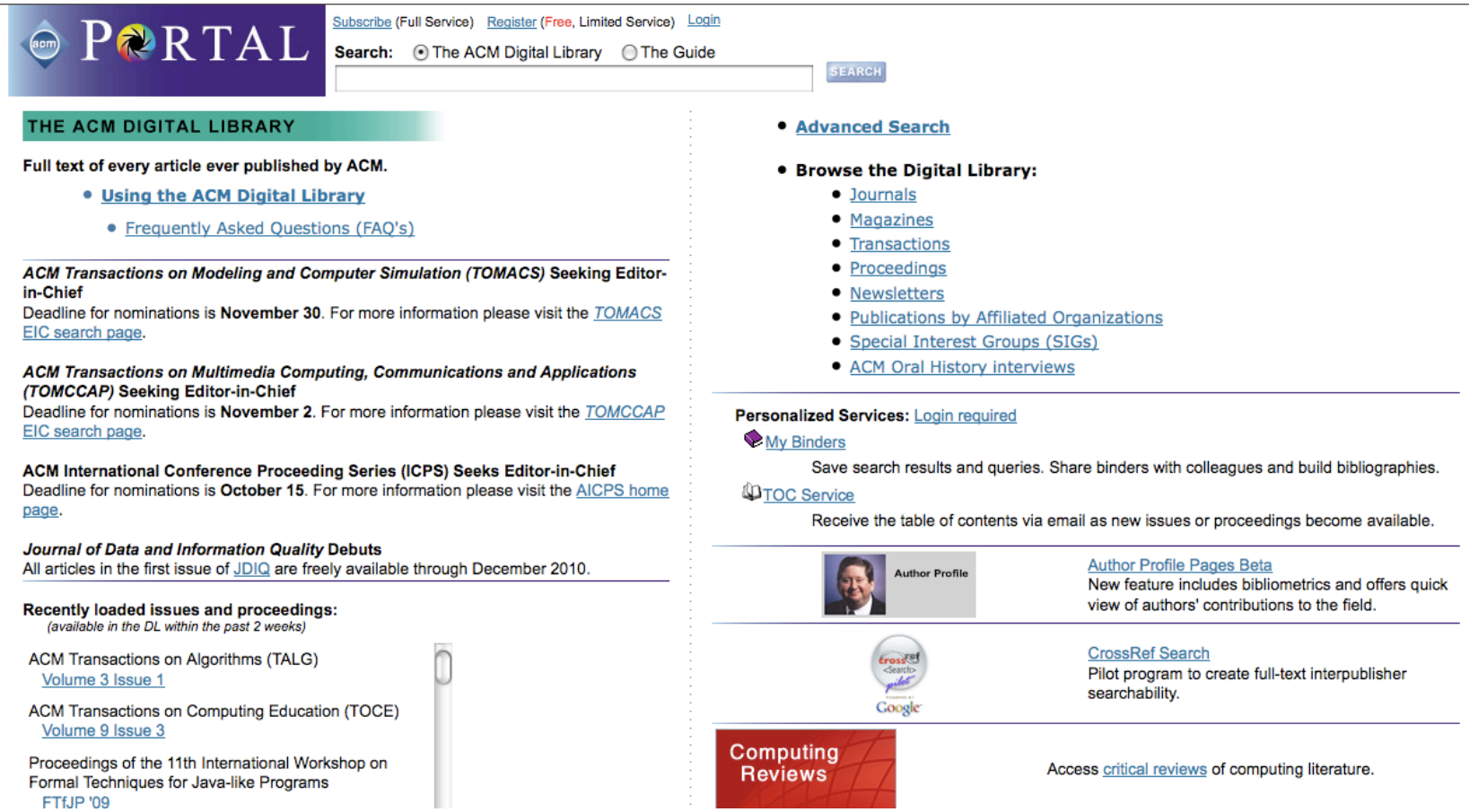

Other Places

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University Links: Home page | Site map | Accessibility

Library

University of Southampton

Home | Subject Support | Resources | Research | Information Skills | Library Users | Services | Catalogues | News | About Us

Search Go
This site University

Subject Support

Engineering, Science & Maths

- Chemistry
- Civil Engineering and the Environment
- **Electronics & Computer Science**
- Engineering Sciences
- Geography
- ISVR
- Mathematics
- Ocean & Earth Sciences
- Optoelectronics Research Centre
- Physics & Astronomy

Law, Arts & Social Sciences

Medicine, Health & Life Sciences

Additional resources

Liaison Librarians

Electronics and Computer Sciences

Welcome to the Hartley Library's ECS web pages. These pages will guide you to some of the key resources in your subject area. They are a useful starting point, and subject staff can give further guidance where required. Information on all aspects of the library service is available from the standard links at the top and bottom of the pages.

If you're new to the library, the New Users pages will give you a general introduction to our services and facilities.

If you are working on your final year project, also see additional resources for year 3 project students.

Finding books and other items - How to find books, reports and other materials held in University of Southampton libraries.

Online encyclopaedias, dictionaries, etc. - there are also a number of online textbooks available which can be located via WebCat.

Finding journal articles - How to find journal articles using both printed and electronic resources.

Databases and indexes - Databases are central to finding journal articles, conference papers, etc. including material from sources outside the University.

Websites - Web links for key organisations, companies and gateways in your subject area.

Information skills - General guides and online information skills tutorials for your subject.

Online feedback form for information skills sessions.

Electronic Books

The following e-books can now be accessed via WebCat.

Bentley, John P. (2005). *Principles of measurement systems* 4th ed. Harlow : Pearson/Prentice Hall

Quick links:

- WebCat
- TDNet: A-Z ejournals
- e-Prints Soton
- Archives & Special Collections
- BOPCRIS Digitisation
- Feedback
- Enquiries
- FAQ
- Quick Reference
- iSolutions

Other Southampton sites:

- School of Electronics and Computer Sciences

University news:

- News feeds

Grey Literature
Official Web sites

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offshoring destinations »

Monday, 10 December 2007

The green IT rules from Gartner and Forrester

Green computing is likely to dominate CIO agendas in 2008 - but where as 2007 was the year of theory and postulation, next year will see leading-edge technology leaders creating far-reaching strategies that help the business cut carbon emissions.

Mark Raskino, research vice president and Gartner fellow, presents the analyst's estimates and suggests IT directors looking to cut carbon emissions should use technology to target three areas - lifecycle management, monitoring policies and societal behaviour:

> "Gartner calculates that business IT and telecommunications contribute about two per cent of carbon emissions worldwide. That might not sound like much, but it is about the same as global aviation and if left unchecked it will grow faster.
>
> "It is also a conservative number for IT which excludes consumer electronics devices, like set-top boxes. Broadly speaking there are three areas where IT leaders can help. First, reduce the direct impact of IT operations by setting specific targets for electrical efficiency improvement and equipment lifecycle management.
>
> Second, propose ways IT and communications systems could help to better monitor, measure, manage, curtail and control polluting business processes.
>
> Finally, for those who are truly visionaries in long-term industry and public policy, consider IT as a possible way to re-shape societal behaviour to meet environmental goals. For example, do we really need planners to permit more large out-of-town shopping complexes now that e-commerce is so well established?"

With Raskino suggesting emissions have the potential to grow faster, such visionary targets should be seen less as far-sighted ideals and more as the basic principles of good IT management.

Euan Davis, principal analyst at Forrester Research, says latest estimates calculate that energy consumption globally from IT accounts for between two and four per cent of carbon emissions - and in the UK between 10 per cent and 12 per cent. He says that IT definitely has a role to play if the UK government has any chance of hitting its ambitious climate change goals:

CONTACTS

Go to Computing home page
About Computing
More Computing blogs

RECENT POSTS

It's the end of the world as we know it
The geek shall inherit the earth
Can you find three reasons to be cheerful?
Advice for graduates wanting a technology career
Perhaps it's time for me to get a Second Life
Fluidata boss could have been 'The Apprentice'
Tonight, Matthew, I'm going to push the envelope
Cloud computing increases need for IT security
Expect thousands of computer software job cuts
'No Internet Day' vs 'No Google Day'

RECENT COMMENTS

TechCrusader on The geek shall inherit the earth
Mark Samuels on Tonight, Matthew, I'm going to push the envelope

But what's wrong with this?

I should find the original source

And if I cant find it, I may have to abandon this item

Gartner http://knowledge.computing.co.uk/2007/12/the-green-it-ru.html

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Annotated Bibliography Contents

EXAMPLES…

Exemplar bibliography

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- Linked from module page/edshare

[PDF] **Annotated Bibliography of Ubiquitous Computing Evaluations**
File Format: PDF/Adobe Acrobat - Quick View
25 Apr 2003 ... **Annotated Bibliography of Ubiquitous Computing** Evaluations ..... [Online]
Available: http://www.aypf.org/compe
ubiqcomputing.org/Reference.pdf -

INFO2009: Professional & Legal Issues (2010-2011)

Overview | Resources | Student Wiki | Past Papers | Syllabus | Send Message | Students | Help — You are a leader on this module.

Online Notes

Search notes and wiki: Search

- Notes
- Notes Wiki

Core Resources

- Bott, F. (2005) Professional Issues in Information Technology. Swindon: British Computer Society [Library] [Shops]
- O'Hara, K. and Shadbolt, N. (2008) The Spy in the Coffee Machine. Oxford: Oneworld. [Library] [Shops]

Background Resources

- Tavani, H. T. (2007) Ethics and Technology. 2nd ed. Hoboken, NJ: Wiley. [Library] [Shops]
- Newton, J. and Holt, J. Eds. (2004) A Manager's Guide to IT Law. Swindon: British Computer Society [Library] [Shops]
- Baase, S. 2009, A Gift of Fire: Social, Legal and Ethical Issues for Computing and the Internet, Third Edition, Pearson Education International. [Library] [Shops]
- Adams, A.A (2008) Pandora's Box: Social and Professional Issues of the Information Age, John Wiley [Library] [Shops]
- Bynum, T.W. and Rogerson S., eds. (2008) Computer Ethics and Professional Responsibility: Introductory Text and Readings [Library] [Shops]

Delicious Bookmarks for "INFO2009"

Note: These are taken unfiltered from Delicious, and may have been provided by anyone, not just the module teachers.

View all Bookmarks

Latest

#debill 2009 academic-integrity accessibility acm

Items from EdShare

Annotated Bibliographies
Slides, handouts and links covering relevant topics including how to create an annotated bibliography, exemplar bibliography, reference managers etc
Dr Susan White

Academic Integrity in an Ethical Context: INFO2009 Week 2
Reminder of ECS academic integrity tutorial, scenarios for small group discussion on 1) academic integrity 2) integrity in the workplace. Students are invited to draw parallels between these two aspects.
Dr Susan White

Introduction to Professional and Legal Issues: INFO2009
slides and activities outlining the extent of the module,outline of proposed courseworks. Includes a couple of activities
Dr Susan White

Collection: Open Source Group 8 Sigma INFO2009 0910
student created resource collection, slides, poster, references
Dr Susan White

EdShare

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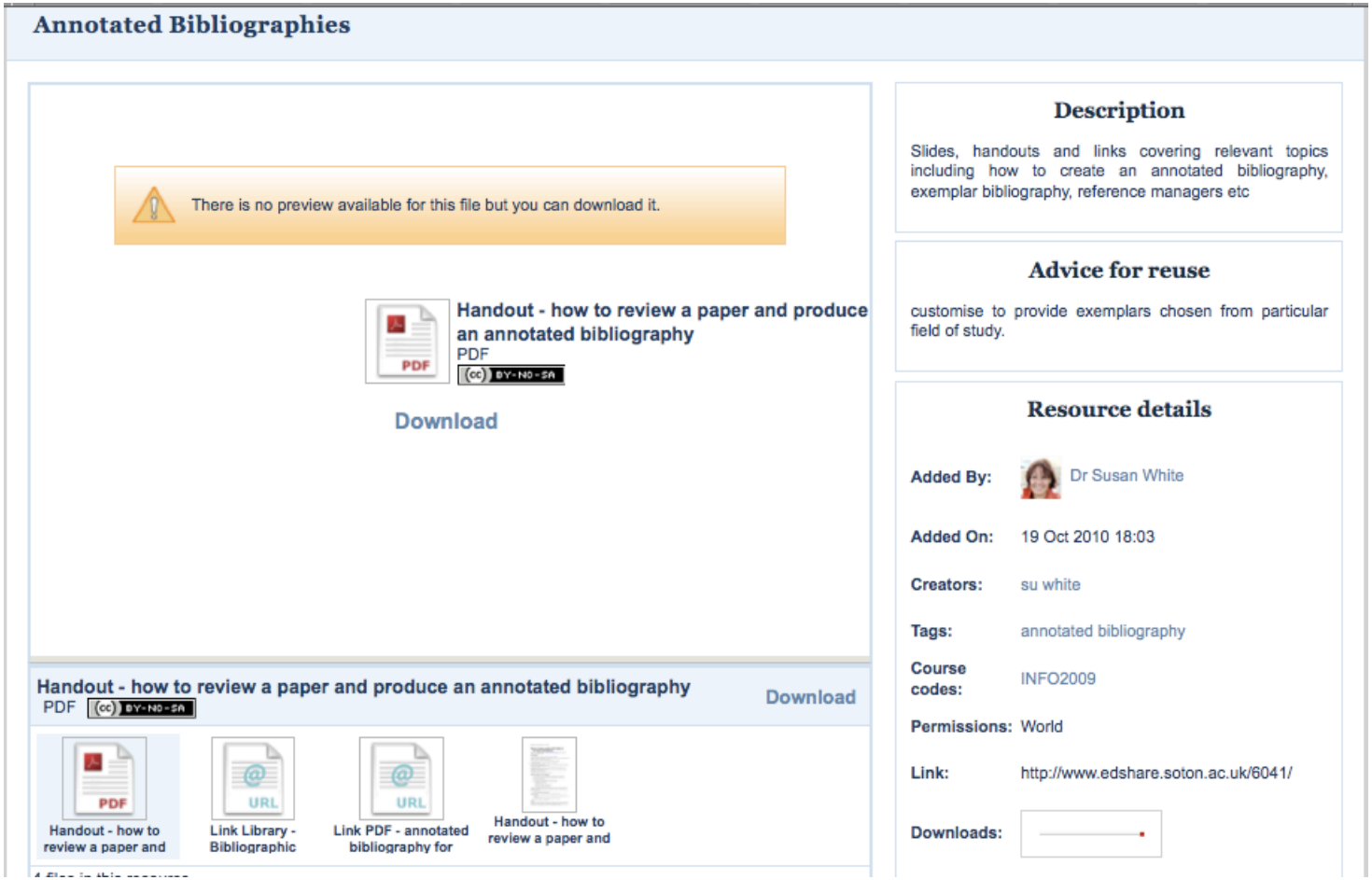

Digital Futures Web 2.0

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O'REILLY, T. (2007) What is Web 2.0: Design Patterns and Business Models for the Next Generation of Software *Communications & Strategies,* 1: First Quarter 2007,pp17-37

Available at the Social Science Research Network (SSRN)
http://papers.ssrn.com/sol3/Delivery.cfm/SSRN_ID1008839_code785949.pdf?abstractid=1008839&mirid=1
last accessed 19th October 2010

- Keyword: web2.0, read-write web, social software, web, meme-map

Digital Futures – web 2.0

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This work originated in a conference between O'Reilly Publishers and MediaLive International in 2004, the term was coined to describe a new class of interactive applications that emerged after the dot-com bubble burst in 2001.

- This paper defines web 2.0 and outlines its key concepts: 1) the web as a platform, 2) harnessing collective intelligence, 3) data is the next Intel inside, 4) end of the software release cycle, 5) lightweight programming models, 6) software above the level of a single device, and 7) rich user experiences.
- The paper is available in slightly different forms from more than one source. The version on the O'Reilly web site (which is more frequently cited http://oreilly.com/web2/archive/what-is-web-20.html acknowledged as 2005) includes a frequently reproduced meme-map of Web2.0 which does not appear in this paper. The terms web 2.0 and 2.0 have since become part of the currency (although the term read write web is also used) and people are now talking about web 3.0 when they consider developments related to the semantic web and linked data.

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Remember…

WHAT ARE OUR TOPICS?

professional and legal issues might include

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Another way of looking at it

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Legal awareness
child protection
libel and defamation
crime online/ cyber-security
pornography
++ many topics are listed under other headings

Personal ethics/Rights and Responsibilities
academic ethics
civic duty
censorship
freedom of speech
Defamation
whistleblowing
free speech
ethics
surveillance
health and safety
industrial tribunals

Technology Watch
e-commerce
globalisation

Professionalism
Codes of conduct
professional bodies
professional practice
trades unions
security

Workplace contexts
code of conduct
Data Protection Act
computer crime
whistleblowing
good practice
plain English
employment rights and law

Digital futures
Augmentation
Web 3.0

Equality
discrimination
accessibility
inclusivity

Global Responsibilities/civic Responsibilities
environment

digital divide
e government
globalisation
social enterprise
think global act local
responsibilities
freedom of information
outsourcing
public awareness of science

Digital Rights and Wrongs
copyright
copyleft
Creative commons
file sharing
Intellectual property
digital rights managen
privacy

Criminal Practice
Fraud
hacking
green ICT

Digital Contexts
open data
open source

Review the list yourself, find your area of interest

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The Assignment

SPECIFICATIONS

See module page

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Assignments

Thu 4 Nov, 17:00 Annotated Bibliography : Handin

- Specification

http://www.edshare.soton.ac.uk/id/document/91042

- Guidelines

http://www.edshare.soton.ac.uk/id/document/90723

- Mark Criteria…

Marking Scheme

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Marking Scheme

Criterion	Description	Outcomes	Marks
Selection of items	appropriate for the chosen theme, timely	1,2	5
reference	references adhere to ACM citation styles as specified	4	5
keywords	appropriate and useful selection of keywords	1	5
annotation: technical knowledge	demonstrates a knowledge and understanding of the issues addressed in the selected item(s)	1,2	20
annotation: critical evaluation	objective analysis, helps the reader understand the context of the selected item(s)	1,2	20
annotation: writing style	balanced and scholarly style	3	20
approach	clear description of the methods used and their effectiveness	2	20
reference list	references adhere to Harvard citation styles as specified	4	5

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What next

FOLLOW UP THIS CLASS

Follow up

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- Review the slides (EdShare)
  - **This week – plus handout and links**
  - **Last week – from Fiona – library guide**
- Think about what you are interested in
- Discuss it with your tutor group
- Decide on your preferred topic area
  - **Or cut your list down to two or three**
- Student Wiki
  - **Add details to your wiki entry**
  - **Share advice, links or resources**
- Complete the coursework

Next few weeks

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- Week 4 – Lester Gilbert ECS Ethics Policy
- Week 5 – David Argles – Security Issues
- Week 5 – Coursework Handin