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## 1 Semantic Web

### 1.1 Introductory

The first of these is the classic general introduction to the concept of the semantic web:

Tim Berners-Lee, James Hendler and Ora Lassila,  
**The Semantic Web**,  
Scientific American, May 2001

Aaron Swartz,  
**The Semantic Web in Breadth**,  
<http://logicerror.com/semanticWeb-long>

Sean B Palmer,  
**The Semantic Web: An Introduction**,  
<http://infomesh.net/2001/swintro>

Paul Warren,  
**The Next Steps for the World Wide Web – putting meaning into the Web**,  
IEE Computing and Control, April / May 2003

### 1.2 Beginner's introduction into ontologies and the Semantic Web

Y. Sure,  
**Fact Sheet on Ontologies**,  
in: KTweb -- Connecting Knowledge Technologies Communities.  
<http://www.ktweb.org/doc/Factsheet-Ontologies-0306.pdf>

Y. Sure,  
**Fact Sheet on Semantic Web**,  
in: KTweb -- Connecting Knowledge Technologies Communities.  
<http://www.ktweb.org/doc/Factsheet-SemanticWeb.pdf>

Jos de Bruijn,  
**Using Ontologies**,  
Technical Report DERI-2003-10-29, October, 2003.  
<http://www.nextwebgeneration.org/papers/DERI-TR-2003-10-29.pdf>

John Davies, Dieter Fensel and Frank van Harmelen (eds),  
**Towards the Semantic Web: Ontology-Driven Knowledge Management**,  
Wiley, UK, 2003.  
[http://www.amazon.com/exec/obidos/tg/detail/-/0470848677/qid=1041862197/sr=5-4/ref=cm\\_lm\\_asin/103-9715408-6072654?v=glance](http://www.amazon.com/exec/obidos/tg/detail/-/0470848677/qid=1041862197/sr=5-4/ref=cm_lm_asin/103-9715408-6072654?v=glance)

### 1.3 Semantic Web languages

*intermediate (and especially recommended):*

Horrocks, I., Patel-Schneider, P. F., and van Harmelen, F,

**From SHIQ and RDF to OWL: The making of a web ontology language,**

Journal of Web Semantics (2003). To appear.

<http://www.cs.vu.nl/~frankh/publications.html#JWS03>

*intermediate (recommended for people not familiar with F-Logic):*

J. Angele and G. Lausen,

**Ontologies in F-Logic,**

in: S. Staab, R. Studer (eds.). Handbook on Ontologies in Information Systems.

International Handbooks on Information Systems, Springer Verlag, 2004.

<http://www.nextwebgeneration.org/internal/literature/ontologyhandbookV217.pdf>

*expert:*

Horrocks and P.F. Patel-Schneider,

**Three Theses of Representation in the Semantic Web,**

Proceedings of the WWW2003, 2003.

<http://www.cs.man.ac.uk/~horrocks/Publications/download/2003/p50-horrocks.pdf>

M. Kifer, G. Lausen, and J. Wu,

**Logical Foundations of Object-Oriented and Frame-Based Languages,**

Journal of the ACM, 42:741-843, 1995.

<ftp.informatik.uni-freiburg.de/documents/papers/JACMflogic.ps.gz>

### 1.4 Semantic annotation

S. Handschuh, S. Staab (eds.).

**Annotation for the Semantic Web.**

IOS Press, 2003.

<http://www.iospress.nl/site/html/boek1192383943.html>

S. Handschuh, S. Staab.

**CREAM - CREATing Metadata for the Semantic Web.**

*Computer Networks*. 42: 579-598, Elsevier 2003.

<http://www.aifb.uni-karlsruhe.de/WBS/sst/Research/Publications/cream-computer-networks.pdf>

S. Handschuh, S. Staab, R. Volz.

**Annotation for the Deep Web.**

*IEEE Intelligent Systems*, 18(5), Sep/Oct 2003, pp. 42-48 (Special issue on information integration).

<http://www.aifb.uni-karlsruhe.de/WBS/sst/Research/Publications/deep-annotation-final.pdf>

Borislav Popov, Atanas Kiryakov, Angel Kirilov, Dimitar Manov, Damyan Ognyanoff, Miroslav Goranov,

**KIM – Semantic Annotation Platform,**

2nd International Semantic Web Conference (ISWC2003), 20-23 October 2003, Florida, USA. LNAI Vol. 2870, pp. 484-499, Springer-Verlag Berlin Heidelberg  
<http://www.ontotext.com/publications/index.html#PopovEtAl2003>

Atanas Kiryakov, Borislav Popov, Damyan Ognyanoff, Dimitar Manov, Angel Kirilov, Miroslav Goranov,

**Semantic Annotation, Indexing, and Retrieval,**

2nd International Semantic Web Conference (ISWC2003), 20-23 October 2003, Florida, USA. LNAI Vol. 2870, pp. 484-499, Springer-Verlag Berlin Heidelberg 2003  
<http://www.ontotext.com/publications/index.html#KiryakovEtAl2003>

1.5 Commercially oriented

*for those in institutions with access to commercial consultancy reports:*

Alexander Linden

**The Semantic Web: Trying to Link the World,**

Gartner Research Note No. T-14-2779, August 2001

David Truog,

**How the X Internet Will Communicate,**

Forrester Research, December 2001

**2 Ontologies**

2.1 Ontology Management (incl. Evolution)

Y. Sure, J. Angele, S. Staab,

**OntoEdit: Multifaceted Inferencing for Ontology Engineering,**

in: S. Spaccapietra, S. March, K. Aberer (eds.). Journal on Data Semantics, LNCS, Volume 2800/2003, pp. 128-152, Springer-Verlag Heidelberg, 2003.

<http://www.springerlink.com/link.asp?id=5q83heugeex9>

Y. Sure, M. Erdmann, J. Angele, S. Staab, R. Studer, D. Wenke,

**OntoEdit: Collaborative Ontology Development for the Semantic Web,**

in Proceedings of the First International Semantic Web Conference (ISWC2002), Sardinia, Italia, Springer, 2002.

<http://link.springer.de/link/service/series/0558/papers/2342/23420221.pdf>

Maedche and B. Motik and L. Stojanovic and R. Studer and R. Volz,

**An Infrastructure for Searching, Reusing and Evolving Distributed Ontologies,**

WWW 2003, Budapest.

[http://www.fzi.de/KCMS/kcms\\_file.php?action=link&id=164](http://www.fzi.de/KCMS/kcms_file.php?action=link&id=164)

R. Volz, D. Oberle, S. Staab, B. Motik,  
**KAON SERVER - A Semantic Web Management System**,  
Alternate Track Proceedings of the Twelfth International World Wide Web  
Conference, WWW2003, Budapest, Hungary, 20-24 May.  
[http://www.fzi.de/KCMS/kcms\\_file.php?action=link&id=209](http://www.fzi.de/KCMS/kcms_file.php?action=link&id=209)

L. Stojanovic, A. Maedche, N. Stojanovic, R. Studer,  
**Ontology Evolution as Reconfiguration-Design Problem Solving**,  
K-CAP 2003, Second International Conference on Knowledge Capture, Oct. 2003,  
Florida, USA.  
[http://www.fzi.de/KCMS/kcms\\_file.php?action=link&id=179](http://www.fzi.de/KCMS/kcms_file.php?action=link&id=179)

Michel Klein and Natasha F. Noy,  
**A component-based framework for ontology evolution**,  
in Proceedings of the Workshop on Ontologies and Distributed Systems, IJCAI '03,  
Acapulco, Mexico, 2003  
<http://www.cs.vu.nl/~mcaklein/papers/OntologyEvolution.pdf>

H. Stuckenschmidt and M. Klein,  
**Integrity and Change in Modular Ontologies**,  
in Proceedings of the International Joint Conference on Artificial Intelligence -  
IJCAI'03, Acapulco, Mexico  
<http://www.cs.vu.nl/~heiner/public/IJCAI03.pdf>

Atanas Kiryakov, Kiril Iv. Simov, Damyan Ognyanov,  
**Ontology Middleware: Analysis and Design**,  
Deliverable 38, On-To-Knowledge project, March 2002.  
<http://www.ontotext.com/publications/index.html#KiryakovEtAl2002>

J. Davies, A. Duke, and Y. Sure,  
**OntoShare - A Knowledge Management Environment for Virtual Communities  
of Practice**,  
in: Proceedings of the 2nd International Conference on Knowledge Capture (K-  
CAP2003), 23- 26 October 2003, Florida, USA, ACM Press, pages 20-27.  
[http://portal.acm.org/ft\\_gateway.cfm?id=945652&type=pdf&coll=GUIDE&dl=ACM  
&CFID=13752926&CFTOKEN=65595607](http://portal.acm.org/ft_gateway.cfm?id=945652&type=pdf&coll=GUIDE&dl=ACM&CFID=13752926&CFTOKEN=65595607)

L. Angele, E. Moench, H. Oppermann, S. Staab, D. Wenke,  
**Ontology-Based Query and Answering in Chemistry: OntoNova @ Provect Halo**  
[http://www.aifb.uni-karlsruhe.de/~sst/Research/Publications/iswc03-  
ontonova.pdf](http://www.aifb.uni-karlsruhe.de/~sst/Research/Publications/iswc03-ontonova.pdf)

S. Staab, H.-P. Schnurr  
**Smart Task Support through Proactive Access to Organizational Memory**,  
in Knowledge Based Systems, vol. 13, no. 5, pp. 251-260, 2000.  
[http://www.aifb.uni-karlsruhe.de/~sst/Research/Publications/kbs-  
staab+schnurr2000.ps](http://www.aifb.uni-karlsruhe.de/~sst/Research/Publications/kbs-staab+schnurr2000.ps)

E. Moench, M. Ullrich, H.-P. Schnurr, J. Angele  
**Semantic Miner – Ontology-Based Knowledge Retrieval**  
[http://www.ontoprise.de/documents/SemanticMiner\\_Ontology-  
Based\\_Knowledge\\_Retrieval.pdf](http://www.ontoprise.de/documents/SemanticMiner_Ontology-Based_Knowledge_Retrieval.pdf)

## 2.2 Dealing with Inconsistencies

S. Schlobach, R. Cornet,  
**Non-Standard Reasoning Services for Debugging of Description Logic Terminologies,**

Proceedings of IJCAI 2003.

<http://staff.science.uva.nl/~schlobac/ijcai2003.pdf>

H. Chalupsky and T.A. Russ,

**WhyNot: Debugging Failed Queries in Large Knowledge Bases,**  
in Proceedings of the Fourteenth Innovative Applications of Artificial Intelligence Conference (IAAI-02), pages 870-877, Menlo Park, 2002. AAAI Press.

<http://www.isi.edu/isd/LOOM/papers/chalupsky/IAAI02HChalupsky.pdf>

## 2.3 Approximation

Heiner Stuckenschmidt, Frank van Harmelen,

**Approximating Terminological Queries,**

Proceedings of the Proceedings of the 4th International Conference on Flexible Query Answering Systems (FQAS'02)

<http://www.cs.vu.nl/~frankh/postscript/FQAS02.pdf>

## 2.4 Approximation

**F-Logic Tutorial**

[http://www.ontoprise.de/documents/tutorial\\_flogic.pdf](http://www.ontoprise.de/documents/tutorial_flogic.pdf)

**Ontobroker Tutorial**

[http://www.ontoprise.de/documents/tutorial\\_ontobroker.pdf](http://www.ontoprise.de/documents/tutorial_ontobroker.pdf)

**OntoEdit Tutorial**

[http://www.ontoprise.de/documents/tutorial\\_ontoedit.pdf](http://www.ontoprise.de/documents/tutorial_ontoedit.pdf)

## **3 OWL**

*For an introduction to OWL, see:*

Grigoris Antoniou, Frank van Harmelen,

**Web Ontology Language: OWL,**

in Handbook on Ontologies in Information Systems, S. Staab and R. Studer (eds), Springer-Verlag, 2003.

<http://www.cs.vu.nl/~frankh/postscript/OntoHandbook03OWL.pdf>

Deborah McGuinness and Frank van Harmelen,

**The OWL Web Ontology Language Overview,**

<http://www.w3.org/TR/owl-features/>

*For more details on OWL, see:*

Michael Smith, Chris Welty, Deborah McGuinness

**OWL Web Ontology Language Guide,**

<http://www.w3.org/TR/owl-guide>

*OWL API*

Sean Bechhofer, Raphael Volz, Phillip Lord

**Cooking the Semantic Web with the OWL API**

in Proceedings of the Second International Semantic Web Conference (ISWC2003), Sanibel Island, Florida, USA, Springer, 2003, pages 659 – 675.

<http://www.springerlink.com/app/home/contribution.asp?wasp=012c8x6vrn3jtvfvtrw6&referrer=parent&backto=issue,42,58;journal,48,1408;linkingpublicationresults,id:105633,1>

**Download Open Source OWL API**

<http://sourceforge.net/projects/owlapi>

## **4 Knowledge Discovery**

### 4.1 Papers

M. Craven, D. DiPasquo, D. Freitag, A. McCallum, T. Mitchell, K. Nigam and S. Slattery ,

**Learning to extract knowledge from Web: - Learning to Extract Symbolic Knowledge from the World Wide Web**,. Proceedings of the 15th National Conference on Artificial Intelligence (AAAI-98). (8 pages)

<http://www.cs.cmu.edu/afs/cs.cmu.edu/project/theo-11/www/wwkb/overview-aaai98.ps.gz>

*Longer version:*

M. Craven, D. DiPasquo, D. Freitag, A. McCallum, T. Mitchell, K. Nigam and S. Slattery,

**Learning to Construct Knowledge Bases from the World Wide Web**, Artificial Intelligence . (57 pages)

<http://www.cs.cmu.edu/afs/cs.cmu.edu/project/theo-11/www/wwkb/overview-aij99.ps.gz>

Rayid Ghani, Rosie Jones, Dunja Mladenic, Kamal Nigam and Sean Slattery,

**Extracting knowledge and analysis on the top of it: - Data Mining on Symbolic Knowledge Extracted from the Web**,

in KDD-2000 Workshop on Text Mining. 2000

<http://www.cs.cmu.edu/~rayid/mypapers/kdd-shield.ps>

*Learning for focused crawling:*

Rayid Ghani, Rosie Jones and Dunja Mladenic,

**Using the Web to Create Minority Language Corpora**,

10th International Conference on Information and Knowledge Management (CIKM-2001)

<http://www-2.cs.cmu.edu/~TextLearning/corpusbuilder/papers/cikm2001.ps>

*Using unlabeled data:*

Kamal Nigam, Andrew McCallum, Sebastian Thrun and Tom Mitchell,  
**Text Classification from Labeled and Unlabeled Documents using EM,**  
To appear in the Machine Learning Journal. 2000. Draft.  
<http://www.cs.cmu.edu/~knigam/papers/emcat-mlj99.ps>

*User profiling:*

Mladenic, D.,  
**Using Text Learning to help Web browsing**  
Proceedings of the 9th International Conference on Human-Computer Interaction,  
(HCI International 2001), New Orleans, LA, USA  
<http://www-2.cs.cmu.edu/~TextLearning/pww/papers/PWW/hci01Final.ps.gz>

*Machine learning on Yahoo! taxonomy:*

Mladenic, D., Grobelnik, M.,  
**Feature selection for unbalanced class distribution and Naive Bayes,**  
Proceedings of the 16th International Conference on Machine Learning ICML-99.  
Morgan Kaufmann Publishers, San Francisco, CA, pp.258-267.  
<http://www-2.cs.cmu.edu/~TextLearning/pww/papers/PWW/pwwICML99Final.ps.gz>

*Text categorization in general - a survey paper:*

Sebastiani,  
**Machine Learning in Automated Text Categorization,**  
ACM Computing Surveys, 2002, Vol.34, no.1, pp.1-47  
<ftp.cs.rutgers.edu/pub/hirsh/536/text-survey.pdf>

*Semantic Web Mining*

B. Berendt, A. Hotho, and G. Stumme,  
**Towards semantic web mining,**  
in I. Horrocks and J. A. Hendler, editors, The Semantic Web - ISWC 2002, First  
International Semantic Web Conference, Sardinia, Italy, June 9-12, 2002,  
Proceedings, volume 2342 of Lecture Notes in Computer Science, pages 264–278.  
Springer, 2002.  
[http://www.aifb.uni-karlsruhe.de/WBS/aho/pub/sem\\_web\\_mine\\_iswc\\_2002.pdf](http://www.aifb.uni-karlsruhe.de/WBS/aho/pub/sem_web_mine_iswc_2002.pdf)

## 4.2 Books

Tom M. Mitchell,  
**Machine Learning,**  
<http://www.amazon.com/exec/obidos/tg/detail/-/0070428077/>

David J. Hand, Heikki Mannila, Padhraic Smyth,  
**Principles of Data Mining,**  
(Adaptive Computation and Machine Learning)  
<http://www.amazon.com/exec/obidos/tg/detail/-/026208290X/>

Ian H. Witten, Eibe Frank,  
**Data Mining: Practical Machine Learning Tools and Techniques with Java  
Implementations,**  
<http://www.amazon.com/exec/obidos/tg/detail/-/1558605525/>



Christopher D. Manning, Hinrich Schütze,  
**Foundations of Statistical Natural Language Processing,**  
<http://www.amazon.com/exec/obidos/tq/detail/-/0262133601/>

Soumen Chakrabarti,  
**Mining the Web: Analysis of Hypertext and Semi Structured Data,**  
<http://www.amazon.com/exec/obidos/tq/detail/-/1558607544/>

Pierre Baldi, Paolo Frasconi, Padhraic Smyth,  
**Modeling the Internet and the Web: Probabilistic Methods and Algorithms,**  
<http://www.amazon.com/exec/obidos/tq/detail/-/0470849061/>

## 5 Ontology Mapping and Ontology Mediation

Noy, N. F. and Musen, M. A.,  
**Prompt: Algorithm and tool for automated ontology merging and alignment,**  
in *Proc. 17th Natl. Conf. On Artificial Intelligence (AAAI2000)*, Austin, Texas, USA.  
[http://www-smi.stanford.edu/pubs/SMI\\_Reports/SMI-2000-0831.pdf](http://www-smi.stanford.edu/pubs/SMI_Reports/SMI-2000-0831.pdf)

Uschold, M.,  
**Creating, integration, and maintaining local and global ontologies,**  
in *Proceedings of the First Workshop on Ontology Learning (OL-2000)* in  
conjunction with the 14th European Conference on Artificial Intelligence (ECAI-  
2000), Berlin, Germany.

A. Maier, H.-P. Schnurr, and Y. Sure,  
**Ontology-based Information Integration in the Automotive Industry,**  
in: *Proceedings of the 2nd International Semantic Web Conference (ISWC2003)*, 20-  
23 October 2003, Sundial Resort, Sanibel Island, Florida, USA, Springer, LNCS  
2870, pages 897-912.  
[http://www.aifb.uni-karlsruhe.de/WBS/ysu/publications/2003\\_iswc\\_indtrack\\_integration.pdf](http://www.aifb.uni-karlsruhe.de/WBS/ysu/publications/2003_iswc_indtrack_integration.pdf)

Rahm, E. and Bernstein, P. A.,  
**A survey of approaches to automatic schema matching,**  
*VLDB Journal: Very Large Data Bases*, 10(4):334–350, 2001.  
<http://research.microsoft.com/~philbe/VLDBJ-Dec2001.pdf>

Klein, M.,  
**Combining and relating ontologies: an analysis of problems and solutions,**  
in Gomez-Perez, A., Gruninger, M., Stuckenschmidt, H., and Uschold, M., editors,  
*Workshop on Ontologies and Information Sharing, IJCAI'01*, Seattle, USA.  
<http://www.cs.vu.nl/~mcaklein/papers/IJCAI01-ws.pdf>

Mitra, P. and Wiederhold, G.,  
**An algebra for semantic interoperability of information sources,**  
in *IEEE International Conference on Bioinformatics and Biomedical Engineering*,  
pages 174–182, 2001.  
<http://www-db.stanford.edu/~prasen9/bibe.ps>

Alexander Maedche, Boris Motik, Nuno Silva, Raphael Volz,  
**MAFRA - A Mapping FRamework for Distributed Ontologies**,  
EKAW 2002: 235-250.  
[http://sra.itc.it/people/agostini/SRA/WSeminars/material/DellerballDe  
c02/Mafra.pdf](http://sra.itc.it/people/agostini/SRA/WSeminars/material/DellerballDe<br/>c02/Mafra.pdf)

## 6 Knowledge Access

Jesus Contreras, V. Richard Benjamins, Juan Antonio Prieto, Diego Paton, Silvestre Losada, and David Gonzalez,  
**An Approach to Semantic Portals based on a Domain and Visualization Ontology**,  
[www.ktweb.org](http://www.ktweb.org), May 2003

John Davies, Uwe Krohn, and Richard Weeks,  
**QuizRDF: Search Technology for the Semantic Web**,  
in WWW2002 workshop on RDF & Semantic Web Applications, 11th International WWW Conference WWW2002, Hawaii, USA, 2002.  
<http://www.quizxml.com/people/JohnDavies/papers/QuizRDFWWW2002.pdf>

John Davies, Alistair Duke, and Audrius Stonkus,  
**OntoShare: Using Ontologies for Knowledge Sharing**,  
in WWW2002 Semantic Web workshop, 11th International WWW Conference WWW2002, Hawaii, USA, 2002.  
<http://www.quizxml.com/people/JohnDavies/papers/OntoShareWWW2002.pdf>

## 7 Human Language Technology

### 7.1 Introductory

H. Cunningham,  
**Information Extraction: a User Guide** (revised version),  
Research Memorandum (CS—99-07), Department of Computer Science, University of Sheffield, 1999.  
<http://www.dcs.shef.ac.uk/~hamish/IE/userguide/main.html>

H. Cunningham and D. Maynard and K. Bontcheva and V. Tablan,  
**GATE: A Framework and Graphical Development Environment for Robust NLP Tools and Applications**,  
in Proceedings of the 40th Anniversary Meeting of the Association for Computational Linguistics, 2002  
<http://gate.ac.uk/sale/acl02/acl-main.pdf>

K. Bontcheva and A. Kiryakov and H. Cunningham and B. Popov and M. Dimitrov,  
**Semantic Web Enabled, Open Source Language Technology**,  
in EACL workshop on Language Technology and the Semantic Web: NLP and XML, Nbudapest, Hungary, 2003  
<http://gate.ac.uk/sale/eacl03-semweb/bontcheva-et-al-final.pdf>

R. Dale and H. Moisl and H. Somers,  
**A Handbook of Natural Language Processing,**  
Dekker, New York, 2000

<http://www.amazon.com/exec/obidos/tq/detail/-/0824790006/103-0841236-1217440?v=glance>

*See chapter on IE and some related chapters.*

## 7.2 Medium

Atanas Kiryakov, Borislav Popov, Damyan Ognyanoff, Dimitar Manov, Angel Kirilov, Miroslav Goranov,

**Semantic Annotation, Indexing, and Retrieval,**

in 2nd International Semantic Web Conference (ISWC2003), 20-23 October 2003, Florida, USA. LNAI Vol. 2870, pp. 484-499, Springer-Verlag Berlin Heidelberg 2003

<http://www.ontotext.com/publications/index.html#KiryakovEtAl2003>

*Evaluation metrics in NLP:*

<http://cslu.cse.oqi.edu/HLTsurvey/ch13node4.html>

## 7.3 Expert

S. Handschuh and S. Staab and F. Ciravegna,

**S-CREAM --- Semi-automatic CREation of Metadata,**

in Proceedings of 13th International Conference on Knowledge Engineering and Knowledge Management (EKAW02), pp. 358-372, Siguenza, Spain, 2002

<http://qunther.smeal.psu.edu/15863.html>

H. Alani and S. Dasmahapatra and N. Gibbins and H. Glaser and S. Harris and Y. Kalfoglou and K. O'Hara and N. Shadbolt,

**Managing Reference: Ensuring Referential Integrity of Ontologies for the Semantic Web,**

in Proceedings of 13th International Conference on Knowledge Engineering and Knowledge Management (EKAW02), pp. 317-334, Siguenza, Spain, 2002

<http://www.bib.ecs.soton.ac.uk/data/7574/PS/ManagingReference-EKAW02.ps>

A. Bagga and A. W. Biermann,

**A Methodology for Cross-Document Coreference,**

in Proceedings of the Fifth Joint Conference on Information Sciences (JCIS 2000), pp. 207-210, 2000

<http://www.cs.duke.edu/~amit/papers/jcis00.ps>

M. Fleischman and E. Hovy,

**Fine Grained Classification of Named Entities,**

in Proceedings of the 19th International Conference on Computational Linguistics (COLING'02), Taipei, Taiwan, 2002

[http://www.mit.edu/~mbf/COLING\\_02.pdf](http://www.mit.edu/~mbf/COLING_02.pdf)

Walter Daelemans and Véronique Hoste,  
**Evaluation of Machine Learning Methods for Natural Language Processing Tasks,**  
in Proceedings of LREC 2002 Third International Conference on Language Resources and Evaluation, pp. 755-760, 2002  
<http://cnts.uia.ac.be/cnts/pdf/20020604.9009.dh02lrec.pdf>

## 8 Usability and Business Benefits

*(Comments from Tom Bösser)*

For a general overview on approaches and methods for user centered design and user testing many sources corresponding to all tastes exist. In the following we have attempted to give as brief and unbiased an introduction as possible, concentrating on proven and tested methods:

<http://www.vnet5.org>

The most relevant approach to model and assess information search by humans is in my view "information foraging". There is no widely tested method, but the concepts are profound and offer the possibility to adapt methods in a lean fashion.

Pirolli, P. and Card, S. K.,  
Information Foraging,  
Psychological Review 106(4): 643-675, 1999  
<http://www2.parc.com/istl/groups/uir/publications/author/Pirolli.html>

To document, model and quantify user procedures in a business context the most appropriate tool is probably ARIS, but there are other candidates. There is a wide range of texts which introduce the matter, most people refer to the writings of A.W.Scheer, but in English the following is a popular text:

Davis, Rob,  
**Business Process Modelling with ARIS.**  
Springer Verlag, 2001  
<http://www.amazon.com/exec/obidos/tg/detail/-/1852334347/103-0841236-1217440?v=glance>

I would like to be able to refer to a text which introduces to the measurement of information quality and information value, but there is none which I can recommend as a sole source, and without critical comments. Hopefully I will be able to provide more in the coming months

## 9 Legal Case Study

V.R. Benjamins, J. Contreras, P. Casanovas, M. Ayuso, M. Becue, L. Lemus, C. Urios,

### **Ontologies of Professional Legal Knowledge as the Basis for Intelligent IT Support for Judges,**

Workshop on Legal Ontologies and Web-based Legal Information Management, held at ICAIL 2003, Edinburgh, June 2003

P. Casanovas, V.R. Benjamins, J. Contreras, L. Lemus, C. Urios,

### **Iuriservice: Un Faq Inteligente Para Los Jueces En Su Primer Destino,**

Internet y Pluralismo Juridico: Formas Emergentes de Regulacion, Pompeu Casanovas (Ed.), Editorial comares, Granada 2003

ISBN: 84-8444-697-2

## 10 Case-Based Reasoning, Topic Maps, and Knowledge Management

R. Bergmann, S. Breen, M. Göker, M. Manago, S. Wess,

### **Developing Industrial Case-Based Reasoning Applications: The INRECA Methodology,**

Lecture Notes in Artificial Intelligence, State-of-the-Art-Survey, LNAI 1612, Springer Verlag.

<http://www.amazon.com/exec/obidos/tq/detail/-/3540661824/103-0841236-1217440?v=glance>

Ralph Traphöner,

### **Knowledge Sharing Medium,**

in Proceedings of the Fifth International Conference on Commercial Computer Science, Physica, Heidelberg, 2001.

White Papers, provided by empolis:

- empolis Corporate Knowledge Center (e:ckc)
- empolis orange 4.0 (Technology Whitepaper)
- The Topic Maps Handbook
- empolis workflow services e:ws 6.0

For more information on getting these white papers please refer to

[productmanagement@empolis.com](mailto:productmanagement@empolis.com).

## **11 Further Resources**

### 11.1 Portals

<http://www.semanticweb.org/>

<http://www.ontoweb.org/>

### 11.2 Conferences and Workshops

<http://iswc.semanticweb.org/>

<http://km.aifb.uni-karlsruhe.de/eon2002/>

<http://km.aifb.uni-karlsruhe.de/ws/eon2003/>

### 11.3 Standards

<http://www.w3.org/RDF/>

<http://www.w3.org/TR/rdf-schema/>

<http://www.w3.org/2001/sw/WebOnt/>

<http://www.w3.org/TR/owl-features/>