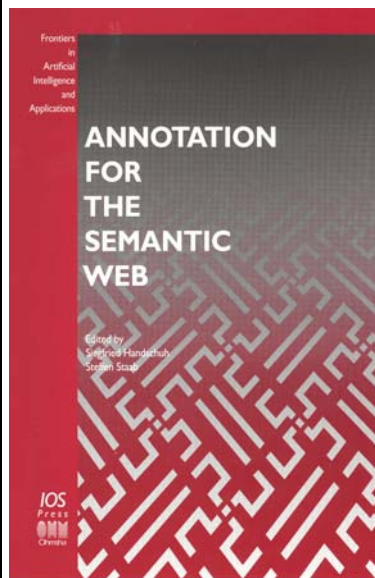# Annotation for the Semantic Web

Volume 96 Frontiers in Artificial Intelligence and Applications
Edited by: S. Handschuh and S. Staab
2003, 240 pp., hardcover
ISBN: 1 58603 345 X
Price: US$104 / €94 / £66

The Semantic Web aims at machine agents that thrive on explicitly specified semantics of content in order to search, filter, condense, or negotiate knowledge for their human users. A core technology for making the Semantic Web happen, but also to leverage application areas like Knowledge Management and E-Business, is the field of Semantic Annotation, which turns human-understandable content into a machine understandable form. This book reports on the broad range of technologies that are used to achieve this translation and nourish 3rd millennium applications. The book starts with a survey of the oldest semantic annotations, viz. indexing of publications in libraries. It continues with several techniques for the explicit construction of semantic annotations, including approaches for collaboration and Semantic Web metadata. One of the major means for improving the semantic annotation task is information extraction and much can be learned from the semantic tagging of linguistic corpora. In particular, information extraction is gaining prominence for automating the formerly purely manual annotation task – at least to some extent. An important subclass of information extraction tasks is the goal-oriented extraction of content from HTML and/or XML resources.

Contents:

The Digital Library Approach
Semantic Annotation in Mathematics and Math-Net, *Wolfgang Dalitz, Winfried Neun and Wolfram Sperber*

Manual Annotations
Annotating of the Shallow and the Deep Web, *Siegfried Handschuh and Steffen Staab*
Collaboration through Annotations in the Semantic Web, *Marja-Riitta Koivunen and Ralph R. Swick*

Wrapping
Semantic Markup of News Items with Lixto, *Robert Baumgartner, Sebastian Eichholz, Sergio Flesca, Georg Gottlob and Marcus Herzog*
Using RDF Schema to Interpret XML Documents Meaningfully, *Michel Klein*

Information Extraction & Linguistics
Linguistic Annotation for the Semantic Web, *Paul Buitelaar and Thierry Declerck*
Designing Adaptive Information Extraction for the Semantic Web in Amilcare, *Fabio Ciravegna and Yorick Wilks*
Content-based Indexing and Searching of Multimedia Documents, *Thierry Declerck, Jan Kuper, Horacio Saggion, Anna Samiotou and Peter Wittenburg*

Graphics
Supporting Semantic Image Annotation and Search, *Jan Wielemaker, August Th. Schreiber and Bob J. Wielinga*
Image Semantics without Annotations, *Simone Santini*
MUSETTE: Uses-based Annotation for the Semantic Web, *Pierre-Antoine Champin and Yannick Prié*

Usage of Annotations
COHSE: Conceptual Open Hypermedia Service, *Sean Bechhofer and Carole Goble*
Annotation for an Open Learning Repository for Computer Science, *Jan Brase and Wolfgang Nejdl*

IOS Press
Nieuwe Hemweg 6B
1013 BG
Amsterdam
The Netherlands
Fax: +31 20 620 3419

IOS Press/Lavis Marketing
73 Lime Walk
Headington, Oxford
OX3 7AD, UK
Fax: +44 18 657 50079

IOS Press, Inc.
5795-G Burke
Centre Parkway
Burke, VA 22015
USA
Fax: +1 1703 323 3668

Ohmsha, Ltd.
3-1 Kanda Nisihiki-cho
Chiyoda-ku
Tokyo 101
Japan
Fax: +81 33 233 2426

Order Information

If you would like to order one or more copies of the above, please fill in this order form and send it back to:
IOS Press, Promotion Department, Nieuwe Hemweg 6B, 1013 BG, Amsterdam, The Netherlands.

O I would like to order …. copies of **Annotations for the Semantic Web** (US$104 / €94 / £66)

O Please bill me
O Please charge my credit card
O Amer. Express   O Euro/Master   O Visa
O Card no.   O Exp. Date   O Security code

Name:
Address:
City/Zipcode: Country:
Fax: E-mail:
Date: Signature: