

Andreas Barth Michael Breu Albert Endres
Arnoud de Kemp (Eds.)

Digital Libraries in Computer Science: The MeDoc Approach



Springer

Table of Contents

Part I: Project Overview

- The MeDoc Digital Library Project - Its Goals and Major Achievements .. 1
A. Barth (*FIZ Karlsruhe*), M. Breu (*FAST e.V. München*), A. Brüggemann-Klein (*TU München*), A. Endres (*Universität Stuttgart*), A. de Kemp (*Springer Verlag Heidelberg*)

Part II: Design Considerations of the MeDoc System

- The MeDoc System - A Digital Publication and Reference Service for Computer Science 13
D. Boles, J. Meyer, G. Möller (*OFFIS Oldenburg*), M. Dreger, S. Lohrum (*FU Berlin*), K. Großjohann (*Universität Dortmund*), C. Haber, R. Weber (*TU München*), A. Kusserow (*Universität Bonn*), D. Menke (*FU Hagen*)
- Design and Implementation of the MeDoc Fulltext System 21
J. Meyer, H.-J. Appelrath (*OFFIS Oldenburg*)
- Conception of the User Agent - The User Interface of the MeDoc System . 35
D. Boles, G. Möller, H.-J. Appelrath (*OFFIS Oldenburg*), A. Kusserow, D. W. Fellner (*Universität Bonn*)
- Access to Bibliographic Databases - The Provider Agents in MeDoc 51
D. Menke, C. Gnörlich, H. Helbig (*FU Hagen*)
- Provider Selection - Design and Implementation of the MeDoc Broker 67
M. Dreger, S. Lohrum (*FU Berlin*), N. Fuhr, K. Großjohann (*Universität Dortmund*)
- Query Transformation for Heterogeneous Provider Systems in MeDoc.... 79
K. Großjohann (*Universität Dortmund*), D. Menke (*FU Hagen*)
- The MeDoc Communication Protocol 89
M. Dreger, S. Lohrum (*FU Berlin*), P. Müller (*ZIB Berlin*)
- The MeDoc Library: Security Aspects 103
A. Brüggemann-Klein, C. Haber (*TU München*)
- Cost Models and Accounting in MeDoc 115
R. Weber (*TU München*), M. Breu (*FAST e. V. München*), A. Endres (*Universität Stuttgart*)

Part III: Complimentary Activities to the MeDoc System

| | |
|--|-----|
| Ariadne, an Interactive Navigation and Search System for Computer - Science Information on the World-Wide Web | 127 |
| <i>M. Dreger, S. Lohrum, H. Scheppe (FU Berlin), C. D. Ziegler (FIZ Karlsruhe)</i> | |
| Grey Literature and Multiple Collections in NCSTRL | 145 |
| <i>S. Adler, W. Lamersdorf, M. Münke, S. Rücker, H. Spahn (Universität Hamburg), U. Berger (Universität Stuttgart), A. Brüggemann-Klein, C. Haber (TU München)</i> | |
| Digital Publishing for Conference Proceedings on CD-ROM | 171 |
| <i>D. W. Fellner (Universität Bonn)</i> | |

Part IV: Application of MeDoc Results and User Experiences

| | |
|---|-----|
| Books and Journals in MeDoc - Experiences on Bringing Publications Online | 179 |
| <i>U. Schwab (Springer Verlag Heidelberg)</i> | |
| Experiences in Document Conversions During the MeDoc Project | 187 |
| <i>H. Feyrer (FH Regensburg)</i> | |
| Digital Books in MeDoc - A First Analysis of Usage Patterns | 193 |
| <i>M. Breu (FAST e. V. München)</i> | |
| Use of MeDoc Offerings in Technical Education | 207 |
| <i>A. Spillner (Hochschule Bremen)</i> | |

Part V: Reports from Related Projects

| | |
|---|-----|
| The Stanford InfoBus and Its Service Layers: Augmenting the Internet with Higher-Level Information Management Protocols | 213 |
| <i>M. Röscheisen, M. Baldonado, K. Chang, L. Gravano, S. Ketchpel, A. Paepcke (Stanford University)</i> | |
| Objectives, Results and Conclusions of the European DECOMATE Project: Delivery of Copyright Material to End Users | 231 |
| <i>J. Dijkstra (Tilburg University)</i> | |

Author Index

239