

Contents

<i>List of figures</i>	<i>xi</i>
<i>List of abbreviations</i>	<i>xiii</i>
<i>Preface</i>	<i>xvii</i>
<i>About the author</i>	<i>xxi</i>
1 Introduction to subject headings and thesauri	1
Introduction	1
Standards for controlled vocabularies	4
Precoordination and postcoordination	8
General do's and don'ts in selecting index terms	10
Subject headings	15
Thesauri	18
Creating and maintaining a controlled vocabulary	25
How to find subject headings and thesauri	26
Thesaurus software	26
Multilingual thesauri	29
Interoperability between vocabularies	30
What makes a good indexing system?	32
Notes	35
References	35
2 Automatic indexing versus manual indexing	39
Introduction	39
Arguments against manual indexing	40

Is indexing by the author or editor a valuable alternative?	48
Arguments in favour of manual indexing	51
Some misconceptions about automatic indexing	57
Conclusion	59
Notes	60
References	60
3 Techniques applied in automatic indexing of text material	65
Introduction	65
Lexical analysis	66
The use of stop word lists	67
Stemming	68
Extracting meaningful word combinations	70
Index term weighting	72
Linking words and word combinations to a controlled vocabulary	73
Automatic classification	75
What can be expected of automatic text indexing?	75
References	77
4 Automatic indexing of images	79
Introduction	79
Images on the internet	80
Context-based indexing	84
Content-based indexing	89
Automatic image annotation	96
Mixed techniques	97
The purpose of it all	98

Notes	99
References	99
5 The black art of indexing moving images	101
Manual indexing of moving images	101
Why index moving images automatically?	103
Indexing based on speech or text recognition	104
Keyframe indexing	108
The future of video indexing	110
Notes	112
References	112
6 Automatic indexing of music	113
Introduction	113
Some examples of music retrieval	115
Indexing methods behind the retrieval	118
References	120
7 Taxonomies and ontologies	121
The librarian's strained relation to taxonomies and ontologies	121
What are taxonomies and what are they used for?	125
Ontologies	131
The importance of taxonomies and ontologies	138
Notes	141
References	141
8 Metadata formats and indexing	143
Introduction	143
What are metadata?	144
Metadata and the library world	145
Some important metadata standards	146

Bridges between standards	160
The benefits of metadata standards	162
What about indexing?	164
Notes	165
References	166
9 Tagging	167
What is tagging?	167
Why tagging?	168
Advantages and disadvantages of tagging	171
Towards a taxonomy of tagging	172
Tagging in the book and library world	175
User tags and author keywords	179
How tags are displayed	180
Conclusions	181
Notes	182
References	182
10 Topic Maps	185
Introduction	185
The TAO model of Topic Maps	187
The technical side of Topic Maps	188
Examples of Topic Maps	190
Are Topic Maps the future of indexing?	191
Notes	192
References	192
11 Indexing the web	195
Is it possible to index the web?	195
Manual web indexes	197
Bookmark sites	203

Evaluation of manual web indexing	205
Web indexing by search engines	206
How search engines work	207
Google's PageRank	211
What about indexing the 'deep web'?	215
Notes	218
References	218
12 The Semantic Web	221
Introduction	221
The criticism against the actual web	223
Planning Web 3.0	225
A timetable for the Semantic Web	234
The Semantic Web and traditional library instruments	237
Notes	242
References	243
Index	245