

# Classification System for Knowledge Organization Literature

The *Classification System for Knowledge Organization Literature* is originally compiled by Dr. Ingetraut Dahlberg for the "Classification Literature" section of the Journal *International Classification* which was started with the first issue of the journal in 1974. The last time this classification was published by Dr. Dahlberg – with an introduction – was in *Knowledge Organization* 20(1993)4, p. 211-222. Many classes of this classification can be subdivided according to scientific disciplines or subject fields. For this subdivision the *Information Coding Classification*, also compiled by Dr. Ingetraut Dahlberg, is used. The ICC was published in *International Classification and Indexing Bibliography: Vol. 1 Classification Systems and Thesauri, 1950-1982. – Frankfurt/Main: Indeks Verlag, 1982. – p. 107-139*. The classes subdivided with the ICC are marked with a \*. In most cases the codes of the ICC are combined with the codes of the classification for Knowledge Organization with a -, but in the classes 5 and 6 the subdivision is direct. Examples: 048-51/4 *Thesauri for the medical sciences*, but 651/4 *Literature about Thesauri for the medical sciences*.

Here the *Classification System for Knowledge Organization Literature* is printed as it is used by the present Literature editor of *Knowledge Organization*, including some small changes made with a view of changes in the literature in the field of knowledge organization.

An outline of the ICC is added.

0	FORM DIVISION	037	Terminology of Special Classification and Indexing Systems
01	Bibliographies in Classification and Indexing	038	Terms and Glossaries in Knowledge Organization Application Fields
011	General Bibliographies	039	Free
012	Current Bibliographies	04	Universal Classification Systems
013	Bibliography of Classification Systems and Thesauri	041	Library Classifications Systems
014	Bibliography of Universal Classification Systems	042	Universal Decimal Classification.
015	Recurring Bibliographies and Holding Lists	042.1	Universal Decimal Classification. Complete Editions
016	Bibliography of Special Classification and Indexing Fields	042.2	Universal Decimal Classification. Medium Editions. Standard Editions
017	Bibliography of Special Indexing Systems	042.3	Universal Decimal Classification. Short Editions
018 *	Bibliography of Classification Systems and Thesauri in Subject Fields	042.5	Universal Decimal Classification. Extensions and Corrections
019	Bibliography of the Works of Persons	043	Dewey Decimal Classifications
02	Literature Reviews in Knowledge Organization	044	Library of Congress Classification
021	General Review Articles	044.8	Library of Congress Subject Headings
025	Recurring Reviews	045	Bliss Bibliographic Classification
026	Reviews in Special Knowledge Organization Fields	046	Ranganathan's Colon Classification
028 *	Reviews of Classification and Indexing in Subject Fields	047	Library Bibliographical Classification. BBK
03	Glossaries, Vocabularies, Terminologies in Knowledge Organization	048	Other Universal Classification Systems and Thesauri
031	General Glossaries in Knowledge Organization	048-1 *	Classification Systems and Thesauri in Logic, Mathematics and other Formal Sciences
032	Glossaries Containing Knowledge Organization Sections	048-2 *	Classification Systems and Thesauri in Physics, Chemistry, Electronics, Energy
033	Free	048-3 *	Classification Systems and Thesauri in Astronomy, Geosciences, Geography, Mining
034	Terminology of Universal Systems	048-4 *	Classification Systems and Thesauri in Biological, Veterinary Science, Agriculture, Food Sciences, Ecology
035	Free	048-5 *	Classification Systems and Thesauri in Human Biology, Medicine, Psychology, Education, Labour, Sports, Household
036	Terms and Glossaries in Special Knowledge Organization Fields		

048-6 *	Classification Systems and Thesauri in the Sociology, Politics, Social Policy, Law, Area Planning, Military Science, History	09	<b>Standards and Guidelines in Knowledge Organization</b> Subdivisions as under 07, for Example:
048-7 *	Classification Systems and Thesauri in Economy, Management Science, Mechanical Engineering, Building, Transport	09.01	Bibliographies of Standards and Guidelines
048-8 *	Classification Systems and Thesauri in Science of Science, Information Science, Computer Science, Communication Science, Semiotics	09.12	Standards on Concepts and Concept Systems
		09.23	Standards for Construction of Classification Systems and Thesauri
		09.38	Standards for Indexes
048-9 *	Classification Systems and Thesauri in Language, Literature, Music, Arts, Philosophy, Religion	1	<b>THEORETICAL FOUNDATIONS AND GENERAL PROBLEMS</b>
05	<b>Periodicals and Serials in Knowledge Organization</b>	11	<b>Order and Knowledge Organization</b>
051	Knowledge Organization Journals	111	Knowledge Organization in General. Classification and Indexing theory in General
052	Knowledge Organization Newsletters, Bulletins	112	Structures in General
053	Serials in Knowledge Organization	113	General Activities in Knowledge Organization
054	Periodicals and Serials for Universal Classification Systems and Thesauri	114	Universal Order
055	Periodicals on Special Classification Systems and Thesauri	115	General Order of Objects, Object Orientation
056	Periodicals on Special Knowledge Organization Fields	116	General Order of Subjects
057	Periodicals With Bearings on Knowledge Organization	117	Object Orientation
058 *	Knowledge Organization Periodicals in Special Subject Fields	118 *	Problems of Order in Application Fields
		119	Role and Significance of Knowledge Organization
06	<b>Conference Reports and Proceedings</b> (Listed According to Year, Month and Day(S): 06.93-11-18/19)	12	<b>Conceptology in Knowledge Organization</b>
07	<b>Textbooks in Knowledge Organization</b> Subdivision According to the Outline Notation, for Example:	121	Logical and Philosophical Bases of Concepts
07.1	Textbooks on theoretical Foundations of Knowledge Organization	122	theory of Concepts. Knowledge Structure
07.21	Textbooks on General Questions of Knowledge Organization	123	Concept Construction, Definitions
07.23	Textbooks on the Construction of Classification Systems and Thesauri	124	Conceptual Models for Knowledge Representation
07.25	Textbooks on Numerical Taxonomy	125	Basic Concepts, Categories
07.3	Textbooks on Classing and Indexing	126	Kinds of Concepts
07.34	Textbooks on Automatic Classing and Indexing	127	Quality Data
07.41	Textbooks on Library Classification	128 *	Concepts of Certain Subject Fields
07.75	Textbooks on Information Retrieval	129	Concept Documentation
07.77	Textbooks for Terminology	13	<b>Mathematics in Knowledge Organization</b>
07.81	Textbooks on Applied Indexing	131	Mathematical theory of Knowledge Organization. Fuzzy Sets. Formal Representation of Concepts
07.85	Textbooks on Book Indexing	132	Algebraic Methods of Knowledge Organization
08	<b>Other Monographs in Knowledge Organization</b> Subdivisions as under 07, for Example:	133	Formalisation and Mathematical Models
08.21	Monographs on General Questions of Knowledge Organization	134	Geometrical Methods
08.92	Festschriften for Persons in Knowledge Organization	135	Graph-theoretical Methods
		136	Distribution theory and Frequency Studies
		137	Numbers in Knowledge Organization
		138 *	Mathematical Methods in Subject Fields
		139	Mathematical Methods for Certain Purposes
		14	<b>Systems theory in Knowledge Organization</b>
		141	Systems Principles
		142	Typology of Systems
		143	Systems Analysis and Description
		144	Systems Approach, Knowledge Analysis
		145	Decision Support Systems
		146	Level theory, Integrative Levels
		147	Neural Networks
		148	Systems in Specific Fields of Knowledge
		149	Information Management. Knowledge Management

15	<b>Psychology and Knowledge Organization</b>	192	History of Construction of Classification Systems
151	Psychological Basis of Knowledge Organization	193	History of Indexing and Subject Cataloguing
152	Thought and Memory	194	History of Certain Classification Systems
153	Intellectual Work	195	History of Construction of Thesauri
154	Concept Formation (Non-Scientific)	196	History of Subjects Related to Knowledge Organization
155	Psychology of Knowledge Organization Processes	197	Free
156	Cognition and New Knowledge. Knowledge Acquisition	198 *	History of Knowledge Organization in Special Subject Fields
157	Computerisation of Thought Processes, Knowledge-Based Systems	199	History of Knowledge Organization in Certain Countries and Institutions
158 *	Psychology of Knowledge Organization in Special Subject Fields	2	<b>CLASSIFICATION SYSTEMS AND THESAURI, STRUCTURE AND CONSTRUCTION</b>
159	Free	21	<b>General Questions of Classification Systems and Thesauri. Information Languages in General</b>
16	<b>Science and Knowledge Organization</b>	211	theory of Classification Systems and Thesauri
161	General Problems	212	Typology and Characteristics of Classification Systems and Thesauri
162	Structure and Interrelationship of Science	213	Management of Classification Systems and Thesauri, Incl. Computerisation
163	Science Methodology	214	Thesauri in General, Definition, Etc. Ontologies
164	Development of Knowledge and Science	215	Characteristics and Kinds of Thesauri
165	Control of Knowledge, Growth, Knowledge Systems	216	thesaurus Systems, Integrated Thesauri
166	Structure of Scientific Literature	217	Role and Function of Classification Systems and Thesauri
167	Contribution of Knowledge Organization to Science Development	218	Use of Classification Systems and Thesauri in Special Environments, e.g. in National Bibliographies
168	Development of Fields of Knowledge	219	Comparisons between Classification Systems and Thesauri
169	Documentation of Scientific Progress	22	<b>Structure and Elements of Classification Systems and Thesauri</b>
17	<b>Problems in Knowledge Organization</b>	221	Conceptual Structures of Classification Systems
171	Knowledge Organization/Classification Problems in General	222	Components of Classification Systems and Thesauri in General
172	Problems from Classification Systems	223	Vocabulary Selection and Extraction
173	Methodological Problems	224	Hierarchy and Hierarchical Levels. Polyhierarchical Relations
174	Organisational Problems	225	Facets. Faceted Classification. Faceted Thesauri
175	Problems of Choice of Classification Systems	226	Descriptors, Keywords, Subject Headings: Properties and Functions
176	Problems from New Methods, e.g. Pattern Recognition	227	Compound Descriptors, Descriptor Combinations. Strings of Descriptors
177	Problems from New Technology	228 *	Descriptors in Certain Subject Fields
178 *	Knowledge Organization Problems in Subject Fields. Domain Classification	229	Representation Form of Descriptors. Graphical Form of Classification Systems and Thesauri
179	Trends and Future Tasks in Knowledge Organization	23	<b>Construction of Classification Systems and Thesauri</b>
18	<b>Classification and Indexing Research</b>	231	Preconditions for Construction
181	General Problems	232	Design Principles for Classification Systems
182	State-Of-the-Art of Classification and Indexing Research in General	233	Methodology for Classification Systems Construction
183	Research on Classification and Indexing Methods and Techniques	234	Linguistic Support of Descriptor Languages
184	Research on Classification Systems		
185	Areas for Research, Proposals		
186	Research on New Topics in Classification		
187	Influence from Outside on Classification and Indexing Research		
188 *	Classification and Indexing Research in Special Subject Fields		
189	Classification and Indexing Research in Certain Countries and Institutions		
19	<b>History of Knowledge Organization</b>		
191	History of Knowledge and Library Classification		

235	Construction of Thesauri in General	279	Free
236	Construction of Thesauri for Special Purposes	28	<b>Compatibility and Concordances between Indexing Languages</b>
237	Computer Supported Construction of Classification Systems and Thesauri (for Programs see 275/277)	281	Objectives and Nature of Systems Compatibility
238	Classification Systems and Thesauri Construction in Different Natural Languages (in Subject Fields see 5-6)	282	Intermediate Languages
239	Evaluation of thesaurus Construction Work	283	Compatibility in Classing and Indexing
24	<b>Relationships</b>	284	Establishment of Concordances
241	General and theoretical Problems of Relationships	285	Correlative Indexes. Mapping
242	Paradigmatic Relationships (for Hierarchical Relations see 224)	286	Systems Reconciliation, e.g. between Classification Systems and Thesauri, Linking Terms
243	Syntagmatic Relationships	287	Organised Compilation of Compatible Classification Systems and Thesauri, Integration
244	Descriptor Relationships	288 *	Compatibility in Subject Areas
245	Roles and Links	289	Evaluation of Compatibility
246	Weights	29	<b>Evaluation of Classification Systems and Thesauri</b>
247	Relational Data Files	291	Principles for Evaluating Classification Systems and Thesauri
248 *	Relations in Special Subject Fields	292	Comparison of Classification Systems among each other
249	Representation of Relationships	293	Testing and Evaluating the Validity of One Or More Classification Systems and Thesauri
25	<b>Numerical Taxonomy</b>	294	Natural Versus Controlled Languages
251	General and theoretical Problems	295	Comparative Analysis of Classification Systems and Thesauri
252	Cluster Analysis	296	Descriptor Languages Versus Classification Systems
253	Classification Procedures	297	Evaluation of Patent Classification Systems
254	Hierarchy in Numerical Taxonomy	298 *	Evaluation of Classification Systems and Thesauri in Certain Subject Fields
255	Pattern Recognition	299	Free
256	Place-Related Numerical Taxonomy	3	<b>METHODOLOGY OF CLASSING AND INDEXING</b>
257	Time-Related Numerical Taxonomy	31	<b>Theory of Classing and Indexing. (Methodology).</b>
258 *	Application of Numerical Taxonomy in Special Subject Fields	311	Principles of Classing and Indexing
259	Evaluation of Numerical Taxonomy Procedures	312	Methodology of Classing
26	<b>Notation. Codes</b>	313	Methodology of Indexing
261	General Problems of Notations	314	Indexing Errors, Constraints
262	Notational Systems	315	Indexing Characteristics (Depth, Intensity, Objectivity, Etc.)
263	Code and Notation Development, Construction and Manipulation	316	Indexing on Different Levels of Abstraction
264	Characteristics of Codes	317	Author and Editor Indexing
265	Book Numbers, Call Numbers	318	Special Purpose Indexing
266	Class Numbers, Notation of Classification Systems and Thesauri	319	Free
267	Number Systems and Codes for Special Purposes	32	<b>Subject Analysis</b>
268 *	Notation and Codes in Certain Subject Fields	321	General Problems of "Aboutness". Relevance
269	Evaluation of Notations and Codes	322	Data Analysis and Interpretation
27	<b>Maintenance, Updating and Storage of Classification Systems and Thesauri</b>	323	Subject/Information/Knowledge Analysis
271	Revision Principles	324	Contents Analysis - Text Analysis (Sociology)
272	Maintenance of Classification Systems and Thesauri	325	Facet Analysis
273	Methods of Revision and Updating	326	Abstracting
274	Revision of Classification Systems and Thesauri in General	327	Preparation of Information for Machine Handling
275	Computer Programs for Classifications	328 *	Subject Analysis in Certain Fields
276	Computer Programs for Thesauri	329	Comparative Analysis of Data and Subjects
277	Updating, Maintenance Programs		
278	Storage Problems of Classification Systems and Thesauri		



33	<b>Classing and Indexing Techniques</b>	378 *	Reclassification in Subject Areas
331	Classification and Indexing in General	379	Free
332	Classing Methods and Techniques	38	<b>Index Generation and Programs</b>
333	Indexing Methods (Not Mentioned under 334/337 Or 34)		(See also under 85)
334	Co-Ordinate Indexing	381	General and theoretical Problems of Index Generation
335	Phrase Indexing (in General)	382	Special Kinds of Indexes
336	Chain Indexing	383	Manual and Computerised Methods for Index Preparation
337	PRECIS Indexing	384	Programs for Index Preparation, General
338	Other Phrase Indexing Methods By Name	385	Index Generation Programming Systems
339	Free	386	Index Generation Programs, By Name
34	<b>Classing and Indexing (See also 81)</b>	387	Programs for other Activities in Classification and Indexing
341	theory of (Automatic) Classification and Indexing	388 *	Index Generation in Subject Fields
342	Term Values, Discrimination, Precision, Etc.	389	Representation Form of Indexes
343	General, Linguistic and Statistical Methods	39	<b>Evaluation of Classing and Indexing</b>
344	Semi-Automatic Methods and Computer-Assisted Indexing. Automatic Indexing, e.g. Semantic Indexing	391	Problems and Principles of Indexing Evaluation
345	Permutation Indexing	392	Evaluation Criteria: Consistency, Functional Efficiency, Etc. Recall and Precision
346	thesaurus-Based Automatic Indexing	393	Methods of Evaluation
347	Automatic Online Indexing	394	Evaluation of a Single Classification Systems Application
348	Automatic Classification. Automated Categorisation	395	Evaluation of a Single Indexing System
349	Evaluation of Automatic Indexing	396	Comparative Studies of Subject Indexing Systems, Incl. thesaurus Vs Free Indexing
35	<b>Manual and Automatic Order Techniques</b>	397	Comparative Studies of Classification Systems Vs Indexing Systems
351	General and theoretical Problems	398 *	Comparative Studies of Indexing in Subject Fields
352	Mathematical Basis of File Organization	399	Comparison of Certain Indexes
353	Generation of Clustered Files. Merging of Files. Consolidation of Files. Recognition of Similar Records	4	<b>ON UNIVERSAL CLASSIFICATION SYSTEMS AND THESAURI</b>
354	Manual Ordering, Shelving	41	<b>On Universal Classification Systems and Thesauri in General</b>
355	File Ordering/Organization	411	Library Classification in General.
356	Hypermedia, Hypertext, Etc.	412	Surveys on Existing Universal Systems
357	Document Structuring, SGML, Hytime, DSSSL, HTML, XML, Etc. Mark-Up Languages	413	Standards for Classifications and Thesauri
358 *	File Organization in Subject Fields	414	theory and Problems of Library Classification
359	Evaluation of Manual and Automatic Ordering	415	Specifications for a New Universal Classification System Or thesaurus
36	<b>Coding</b>	416	Free
361	General and theoretical Problems	417	Problems from Comparative Studies of Universal Classification Systems
362	Coding Systems	418	Special Topics Treated in Universal Classification Systems
363	Coding Methods	419	Trends in the Development of Universal Classification Systems
364	Encoding of Index Entries. Triads	42	<b>On the Universal Decimal Classification</b>
365	Encoding of Catalogue Data. Cutter Numbers	43	<b>On the Dewey Decimal Classification</b>
366	Encoding of Text and Data	44	<b>On the Library of Congress Classification</b>
367	Coding of Techno-Economic Data	448	<b>On the Library of Congress Subject Headings</b>
368 *	Coding in Certain Subject Fields	45	<b>On the Bliss Bibliographic Classification</b>
369	Coding in Bibliographic Records	46	<b>On the Colon Classification</b>
37	<b>Reclassification</b>		
371	General and theoretical Problems		
372	Parameters of Reclassification		
373	Organization of Reclassification		
374	Administrative Viewpoints		
375	Reclassification to LCC		
376	Conversion to LBC / BBK		
377	Other Reclassification Projects		

47	On the Library Bibliographical Classification	6 *	ON SPECIAL SUBJECTS CLASSIFICATIONS AND THESAURI
48 *	On other Universal Classification Systems and Thesauri	61 *	On Classification Systems and Thesauri in Logic, Mathematics and other Formal Sciences
481 *	On Proposals for Universal Classification Systems and Thesauri	62 *	On Classification Systems and Thesauri in Physics, Chemistry, Electronics, Energy
482 *	On Classification Systems for General Purposes	63 *	On Classification Systems and Thesauri in Astronomy, Geosciences, Geography, Mining
483 *	On Thesauri and other Devices for General Purposes	64 *	On Classification Systems and Thesauri in Biological, Veterinary Science, Agriculture, Food Sciences, Ecology
484 *	On Classification Systems and Thesauri for Archives	65 *	On Classification Systems and Thesauri in Human Biology, Medicine, Psychology, Education, Labour, Sports, Household
485 *	On Classification Systems and Thesauri for Libraries, Including Public Libraries. Sears' List of Subject Headings	66 *	On Classification Systems and Thesauri in Sociology, Politics, Social Policy, Law, Area Planning, Military Science, History
486 *	On Classification Systems and Thesauri for Documentation and Information Services	67 *	On Classification Systems and Thesauri in Economy, Management Science, Mechanical Engineering, Building, Transport
487 *	On Classification Systems and Thesauri for Patents and Standards (Subdivide By Country Codes)	68 *	On Classification Systems and Thesauri in Science of Science, Information Science, Computer Science, Communication Science, Semiotics
488 *	On Classification Systems and Thesauri for Research and Terminology	69 *	On Classification Systems and Thesauri in Language, Literature, Music, Arts, Philosophy, Religion
489 *	On Classification Systems for other Special Purposes (Children, School and Youth Libraries, Public Offices, State Documents, Etc.)	7	KNOWLEDGE REPRESENTATION BY LANGUAGE AND TERMINOLOGY
49	Free	71	General Problems of Natural Language in Relation to Knowledge Organization
5 *	ON SPECIAL OBJECTS CLASSIFICATIONS (TAXONOMIES)	711	Linguistics and Knowledge Organization
51 *	On Taxonomies in Logic, Mathematics and other Formal Sciences	712	Natural Language and Metalanguage
52 *	On Taxonomies in Physics, Chemistry, Electronics, Energy	713	Mathematical and Computational Linguistics, General
53 *	On Taxonomies in Astronomy, Geosciences, Geography, Mining	714	Semiotics
54 *	On Taxonomies in Bio Biological, Veterinary Science, Agriculture, Food Sciences, Ecology	715	Formalisation of Natural Language. Artificial Intelligence. Expert Systems in General
55 *	On Taxonomies in Human Biology, Medicine, Psychology, Education, Labour, Sports, Household	716	Problems of Structure
56 *	On Taxonomies in Sociology, Politics, Social Policy, Law, Area Planning, Military Science, History	717	Language Universals
57 *	On Taxonomies in Economy, Management Science, Mechanical Engineering, Building, Transport	718	Problems of Different Natural Languages
58 *	On Taxonomies in Science of Science, Information Science, Computer Science, Communication Science, Semiotics	719	Free
59 *	On Taxonomies in Language, Literature, Music, Arts, Philosophy, Religion	72	Semantics
		721	General Problems of Semantics
		722	Word and Sentence Meaning
		723	Semantic Analysis
		724	On Synonyms and other Ambiguities
		725	Semantic Networks and Associations
		726	Semantics of Texts and Languages
		727	Semantics of Data Bases, Memory Systems
		728 *	Semantics in Subject Fields
		729	Free

73	<b>Automatic Language Processing</b>	768 *	Dictionaries in Subject Fields
731	General and theoretical Problems	769	Free
732	On Language Items for Processing. Natural Query Systems	77	<b>Problems of Terminology</b>
733	Methods and Procedures of Natural Language Processing, Parsing, Word Allocation, Co-Occurrences, Etc.	771	General and theoretical Problems
734	Computer Programs for Automatic Language Processing	772	Form and Designation of Terms and Names
735	Word Truncation, Root, Stem Procedures, N-Grams	773	Terminological Work
736	File, Text Compression. Automatic Abstracting	773.4	Computer Programs for Terminological Work
737	Automatic Analysis of Special Natural Languages	774	Term Systems and Terminological Systems
738 *	Automatic Analysis in Subject Fields	775	Classification and Terminology
739	Spoken Document Retrieval. Speech Recognition	776	Terminological Databanks
74	<b>Grammar Problems</b>	777	Country and Language-Oriented Terminological Work
741	General and theoretical Problems of Grammar	778	Special Language Research
742	Grammars	779	Contrastive Terminology
743	Syntactic Analysis and their Algorithms	78 *	<b>Subject-Oriented Terminology Work</b>
744	Grammatical Forms, e.g. of Keywords, Terms, Words	78-1 *	Terminology Work in Logic, Mathematics and other Formal Sciences
745	Special Grammatical Problems, e.g. Frames	78-2 *	Terminological Work in Physics, Chemistry, Electronics, Energy
746	Generation of Phrases, Syntax Structures	78-3 *	Terminological Work in Astronomy, Geosciences, Geography, Mining
747	Syntax of Special Natural Languages	78-4 *	Terminological Work in Biological, Veterinary Science, Agriculture, Food Sciences, Ecology
748 *	Syntax in Special Subject Fields	78-5 *	Terminological Work in Human Biology, Medicine, Psychology, Education, Labour, Sports, Household
749	Free	78-6 *	Terminological Work in Sociology, Politics, Social Policy, Law, Area Planning, Military Science, History
75	<b>On-Line Retrieval Systems and Technologies</b>	78-7 *	Terminological Work in Economy, Management Science, Mechanical Engineering, Building, Transport
751	General and theoretical Problems. Searching in General. Information Retrieval in General	78-8 *	Terminological Work in Science of Science, Information Science, Computer Science, Communication Science, Semiotics
752	Dialogue Systems. Interactive Catalogues. On-Line Catalogues. OPAC's	78-9 *	Terminological Work in Language, Literature, Music, Arts, Philosophy, Religion
753	On-Line Access, Query Optimisation, Navigation, Query Expansion, Full Text Searching, Free Text Searching	79	<b>Problems of Multilingual and Cross-Language Systems and Translation</b>
754	Programs for On-Line Queries, e.g. for Ranking	791	General and theoretical Problems
755	Problems of On-Line Systems. Types of Searches, e.g. Boolean Searches, Structured Searches, Probabilistic Searches	792	Aspects and Models of Translations
756	Classification and thesaurus-Based Access	793	Automatic and Computer-Aided Translation
757	Expert Systems in Searching. Search Engines. Intelligent Agents. Routing. SDI. Data Mining. Data Fusion. Collection Fusion. Current Awareness Services	794	Translation of Classification Systems and Thesauri
758 *	On-Line Systems in Subject Fields. Information Systems in Subject Fields	795	Bilingual Classification Systems and Thesauri
759	Evaluation of On-Line Information Retrieval Systems and Techniques	796	Multilingual Classification Systems and Thesauri
76	<b>Lexicon/Dictionary Problems</b>	797	Indexing, Multilingual Systems. Cross-Language Information Retrieval
761	General and theoretical Problems	798 *	Translation Problems in Subject Fields
762	Dictionary Structures	799	Interlinguistics and Translation
763	Construction and Updating of Dictionaries	8	<b>APPLIED CLASSING AND INDEXING</b>
764	Kinds of Dictionaries, Except the Following	81	<b>General Problems, Catalogues, Guidelines, Rules, Indexes (See also 34)</b>
765	Automatic, Monolingual Dictionaries	811	General Problems of Indexes and Indexers.
766	Automatic, Multilingual Dictionaries		
767	Data Bases in Dictionary Form		

812	Subject Indexing in General. Consistency	845	Classification and Indexing of Journals and Serials
813	Alphabetical and Classed Subject Catalogues	846	Classification and Indexing of theses and Dissertations
814	Establishment and Maintenance of Subject Catalogues.	847	Classification and Indexing of Archival Materials
815	Manuals, Rules, Codes for Subject Catalogues	848 *	Classification and Indexing of Field-Oriented Primary Documents. Record Management
816	Index Specifications	849	Classification and Indexing of other Kinds of Primary Documents, Including Software
817	Rules for Good Subject Catalogues and Indexes	85	<b>(Back of the) Book Classification and Indexing</b>
818	Editing and Printing of Indexes		See also 38
819	Subject Indexes and Catalogues in Certain Institutions and Countries	851	General Problems
82	Representation Forms of Classification and Indexing	852	Term Or Topic for Entries
82	<b>Data Classing and Indexing</b>	853	Methodology of Book Indexing
820	Data Classing and Indexing in General	854	Characteristics of Book Indexing
82-1 *	Data Classing and Indexing in Logic, Mathematics and other Formal Sciences	855	Indexing of Journals
82-2 *	Data Classing and Indexing in Physics, Chemistry, Electronics, Energy	856	Index Generation of Special Books, e.g. Proceedings
82-3 *	Data Classing and Indexing in Astronomy, Geosciences, Geography, Mining	857	Computerised Book Indexing
82-4 *	Data Classing and Indexing in Biological, Veterinary Science, Agriculture, Food Sciences, Ecology	858 *	Book Indexing in Subject Fields
82-5 *	Data Classing and Indexing in Human Biology, Medicine, Psychology, Education, Labour, Sports, Household	859	Evaluation of Book Indexing
82-6 *	Data Classing and Indexing in Sociology, Politics, Social Policy, Law, Area Planning, Military Science, History	86	<b>Secondary Literature Classification and Indexing</b>
82-7 *	Data Classing and Indexing in Economy, Management Science, Mechanical Engineering, Building, Transport	861	Classification and Indexing of Encyclopaedias, Manuals, Dictionaries
82-8 *	Data Classing and Indexing in Science of Science, Information Science, Computer Science, Communication Science, Semiotics	862	Classification and Indexing of Bibliographies
82-9 *	Data Classing and Indexing in Language, Literature, Music, Arts, Philosophy, Religion	863	Classification and Indexing of Abstracts and Abstracting Journals
83	<b>Title Classing and Indexing. Derived Indexing</b>	864	Citation Indexing
831	General Problems	865	Classification and Indexing of Library Catalogues
832	Information Value of Titles	866	Establishment of Indexes to Classification Systems in General
833	Methodology of Title and Sentence Classing and Indexing	867	Establishment of Indexes to Universal Classification Systems
834	Use of Tables of Contents	868	Establishment of Indexes to Special Classification Systems
835	Free	869	Classification and Indexing of other Secondary Literature
836	Information Value of Terms from Abstracts Or Text.	87	<b>Classification and Indexing of Non-Book Materials</b>
837	Free	871	General Problems, e.g. of Shape. Classification and Indexing of Images in General. Multimedia. Audio-Visual Media
838 *	Title Indexes in Subject Fields	872	Picture Classification and Indexing, Including Photographs.
839	Title Indexing in Special Institutions	873	Microform Classification and Indexing
84	<b>Primary Literature Classification and Indexing (Except 85)</b>	874	Slides Classification and Indexing
841	Classification and Indexing of Current Research and Research Reports	875	Video Tape and Film Classification and Indexing
842	Classification and Indexing of Patents, Standards and Similar Documents	876	Cartographic Classification and Indexing. Geographical Classification and Indexing.
843	Classification and Indexing of Biographies	877	Classification and Indexing of Phonographic Records. Music Scores. Music Instruments
844	Classification and Indexing of News and Newspapers Inclusive Prestel/Viewdata, Etc.	878	Classification and Indexing of Museum Objects
		879	Classification and Indexing of other Non-Book Materials, e.g. CD-ROMs, Internet, E-



	Mail, Electronic Documents	93	<b>Organization of Classification and Indexing on a National and International Level.</b>
88 *	<b>Classification and Indexing in Subject Fields (Manual and With Computers)</b>		<b>Shared Classification Indexing. Centralised Classification and Indexing</b>
88-1 *	Classification and Indexing in Logic, Mathematics and other Formal Sciences	931	General Principles. Shared Indexing in General
88-2 *	Classification and Indexing in Physics, Chemistry, Electronics, Energy	932	International Co-Operation and Systems
88-3 *	Classification and Indexing in Astronomy, Geosciences, Geography, Mining	933	International Activities.
88-4 *	Classification and Indexing in Biology, Veterinary Science, Agriculture, Food Sciences, Ecology	934	Activities in Europe (Subdivide By Country Code)
88-5 *	Classification and Indexing in Human Biology, Medicine, Psychology, Education, Labour, Sports, Household	935	Activities in Asia
88-6 *	Classification and Indexing in Sociology, Politics, Social Policy, Law, Area Planning, Military Science, History	936	Activities in Africa
88-7 *	Classification and Indexing in Economy, Management Science, Mechanical Engineering, Building, Transport	937	Activities in America
88-8 *	Classification and Indexing in Science of Science, Information Science, Computer Science, Communication Science, Semiotics	938	Free
88-9 *	Classification and Indexing in Language, Literature, Music, Arts, Philosophy, Religion	939	Free
89	<b>Classification and Indexing in Certain Languages</b>	94	<b>Bibliographic Control. Bibliographic Records</b>
	Subdivide By Language Code		
9	<b>KNOWLEDGE ORGANIZATION ENVIRONMENT</b>	941	Bibliographic Control. Bibliography As Discipline
91	<b>Professional and Organisational Problems in General and in Institutions</b>	942	Cataloguing and Indexing in General
911	General Problems, e.g. Sociological Aspects	943	Archival Description. EAD
912	Professional Questions, e.g. Image, New Professions	944	Bibliographic Records. Functions of Catalogues and Bibliographical Databases. Functional Requirements for Bibliographic Records
913	Work Descriptions, Etc.	945	Record Structure. MARC, MARC21, UNIMARC
914	Workstations	946	Bibliographic Description. Formal Cataloguing. Cataloguing Rules. ISBD
915	Ergonomic Factors in Knowledge Organization	947	Interface for Bibliographic Records. Displays for Bibliographic Or Archival Records
916	Organization of Work	948	Standard Numbers. ISBD. ISSN. ISMN. ISAN
917	Transfer of Data, e.g. CD-ROMS - Other Databases. Linking of Databases. Consolidation.	949	Free
918	Problems Concerning the Internet. Metadata	95	<b>Education and Training in Knowledge Organization</b>
919	MARC Format for Classification Data. Classification Data in MARC	951	General Problems
92	<b>Persons and Institutions in Knowledge Organization</b>	952	Subject, Curricula and Training Programmes
921	Free	953	Methodology of Teaching Knowledge Organization
922	Historical Persons	954	Side Effects of Teaching Knowledge Organization
923	Comparison of Persons	955	Teaching Aids
924	Contemporaries	956	Educational Requirements
925	Societies, Research Groups,	957	Education and Training in Particular Countries
926	International Societies and Groups	958 *	Teaching of Subject-Oriented Classification and Indexing Systems
927	International Institutions	959	User Instruction. Teaching of End-Users
928	Free	96	<b>Policy and Legal Questions</b>
929	Awards in Classification and Indexing		(e.g. Copyright of Classification Systems, Copyright of Computer Programs in Classification and Indexing)
		97	<b>Economics in Knowledge Organization</b>
		971	General Aspects, e.g. Financing
		972	Free
		973	Economising Knowledge Organization Work
		974	Free
		975	Economic Aspects in Classification Systems Construction

976	Economic Aspects in Cataloguing	988	Use of Indexes
977	Economic Aspects in Classification and Indexing	989	Use of Classification Systems and Thesauri in Certain Institutions
978	Economic Aspects of Publishing Classification Systems	99	<b>Standardisation in Knowledge Organization Work</b>
979	Free	991	General Problems
98	<b>User Studies</b> (Application of Systems see 218)	992	Standardisation of Terms and Characteristics
981	Studies of Users, Readers in General. Information Literacy	993	Standardisation in Shelving and Organizing Materials
982	Requirements of Classification and Indexing Users (User Interfaces, User Feedback, Search Term Selection)	994	Standardisation of Classification Systems
983	Use of Certain Classification and Indexing Practices	995	Standardisation of Thesauri
984	Use of Classification Systems	996	Standardisation of Subject Catalogues
985	Use of Thesauri	997	Standardisation in Indexing
986	Use of Subject Catalogues	998	Authority Files. Standardisation of Personal Names. Authority Files for Indexing
987	Use of Indexing Systems and Methods	999	Free

## Outline of the Information Coding Classification

0	<b>General Form Concepts</b>
01	Theories, Principles
02	Objects, Parts
03	Activities
04	Properties, Attributes
05	Persons
06	Institutions
07	Technical Production
08	Applications, Determination
09	Synthesis, Distribution
1	<b>Form and Structure Area</b>
11	Logic
12	Mathematics
13	Statistics
14	Systemology
15	Organization of Science and Technology
16	Metrology
17	Cybernetics (Control, Automat)
18	Standardization
19	Testing and Checking
2	<b>Energy and Matter Area</b>
21	Mechanics
22	Physics and Matter
23	General and Technical Physics
24	Electronics
25	Physical Chemistry
26	Pure Chemistry
27	Chemical Technology and Engineering
28	Energy Science and Technology
29	Electrical Engineering
3	<b>Cosmo- and Geo-Area</b>
31	Astronomy and Astrophysics
32	Astronautics and Space Research
33	Basic Geosciences
34	Atmospheric Science. Meteorology

35	Hydrospheric and Oceanological Science
36	Geological Sciences
37	Mining
38	Materials Science and Metallurgy
39	Geography
4	<b>Bio-Area</b>
41	Basic Biological Sciences
42	Microbiology and Cultivation
43	Plant Biology and Cultivation
44	Animal Biology and Breeding
45	Veterinary Science
46	Agriculture and Horticulture
47	Forestry and Wood Science and Technology
48	Food Sciences and Technology
49	Ecology and Environmental Science and Technology
5	<b>Human Area</b>
51	Human Biology
52	Health and Theoretical Medicine
53	Pathology and Special Medicine
54	Clinical Medicine and Nature Cure
55	Psychology
56	Education
57	Profession, Labour, Leisure
58	Sports and Games
59	Household and Home Life
6	<b>Socio-Area</b>
61	Sociology
62	State and Politics
63	Public Administration
64	Money and Finances
65	Social Aid, Social Politics
66	Law
67	Area Planning and Urbanism
68	Military Science and Technology

69	History
7	<b>Economy and Technological Production Area</b>
71	General economics and National Economy
72	Management of Enterprises
73	Technology and Engineering in general
74	Mechanical Engineering
75	Building
76	Commodity Science and Technology
77	Vehicle Science and Technology
78	Transport Technology and Services
79	Service Economics
8	<b>Science and Information Area</b>
81	Science of Science
82	Information Sciences
83	Computer Science and Technology

84	Information in general
85	Communication Science and Technology
86	Mass Communication
87	Printing and Publishing
88	Communication Engineering
89	Semiotics
9	<b>Humanities and Culture Area</b>
91	Language
92	Literature and Philology
93	Music
94	Fine Arts
95	Performing Arts. Theatre
96	Culture Science (Ethnology, etc.)
97	Philosophy
98	Non-Christian Religion and Secret Teaching
99	Christian Religion and Theology