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LEONTIEF LIBRARY REPORT

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Organizing and Classifying Books of the Leontief Library

January 2025

JAPAN STATISTICS RESEARCH INSTITUTE
HOSEI UNIVERSITY

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Organizing and Classifying Books of the Leontief Library[1]

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1. The History of the Leontief Library

Around 1997, the Leontief Library was donated to the Institute for Seizon and Life Science by Professor Leontief [2]. The relationship between Professor Leontief and the Institute for Seizon and Life Science is described in Tsukui (2003).

According to Emi (2003), "The contract for the storage and operation of the Leontief Library was exchanged by four related organizations (Institute for Seizon and Life Science, Pan Pacific Input Output Association (PAPAIOS), Chuo University, and Keio Economic Observatory) that have the right to use the Leontief Library. The storage and operation of the Library was entrusted to Chuo University." About five years later, the Leontief Library was officially donated to Chuo University. On March, 2002, a donation ceremony was held for the Leontief Library from the Institute for Seizon and Life Science to Chuo University. Saburo Abe, Chief Executive Director of the Chuo University handed the "Receipt" of the Library to Koichi Emi, President of the Institute for Seizon Life Science.

20 years after, Chuo University made an offer to transfer the Leontief Library, and after discussion among the PAPAIOS executive members, it was decided that Hosei University would undertake the donation. In December 2022, a gratuitous transfer contract for the Leontief Library was signed between Masahiko Omura, Chief Executive Director of the Chuo University and Katsuya Hirose, President of the Hosei University. In January 2023, the Leontief Library was transported from Chuo University to Hosei University and stored in a room of the Japan Statistical Research Institute, hereafter JSRI, Hosei University. Currently, JSRI is working on sorting and arrangement of the Leontief Library.

JSRI and the Input Output Table have a fateful connection. The Japanese first Input Output Table, which exists today, was estimated in 1953 for the year 1935 by a group led by Takafusa Nakamura, a student at the professor Arisawa's Seminar at the University of Tokyo, and published by the JSRI. JSRI moved to Hosei University in 1953, so it was published in the same year it moved. Later professor Arisawa became president of the Hosei University, and Nakamura became a professor at the University of Tokyo and a chairman of the government's Statistics Council.

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[1] Suga set the direction for the organization and classification outlined in this paper, and Omata was in charge of executing the practical tasks.

[2] Leontief initially intended to donate the library to Hitotsubashi University (Tsuru 1999)

The books of the Leontief Library were delivered in cardboard boxes from Chuo University. Each book was numbered on the spine, and stored in cardboard boxes in the order of the number (Photograph A-1). On the side of cardboard boxes, the above number was written to indicate which books were stored (Photograph A-2). The total number of cardboard boxes other than those stored in cabinets at Chuo University amounts to 250 as shown in Figure A-1. The cardboard boxes were distributed and arranged as shown in Photograph A-3 and Photograph A-4. The distribution diagram as a whole is shown in Figure A-2. A list (in Excel format) of information about those books was received from Chuo University. According to this list, there exist about 9,400 books in the 250 boxes.

2. Number of Books by Original Language and Publication Year

We analyzed the number of books by original language and publication year. The number of books that is analyzed amounts to about 9,200.[3] The number of books by original language is shown in Figure 1. The largest number of books is in English, followed by French.

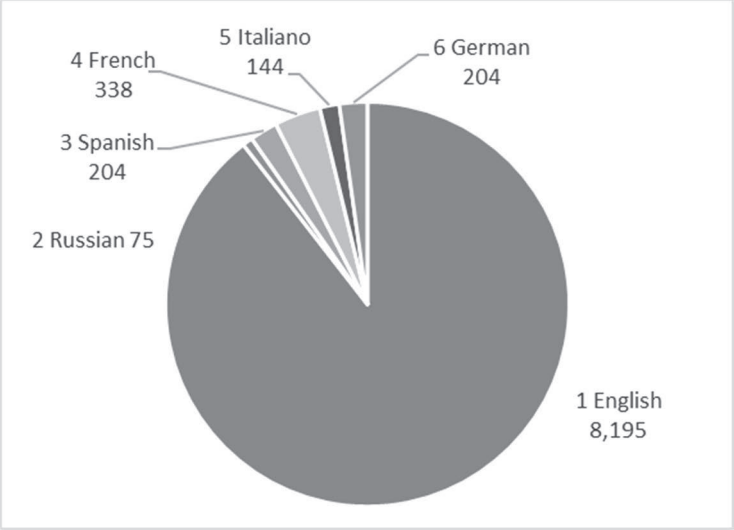


Figure 1 Original language of the books

[3] The lists used in the analysis are under scrutiny, thus this paper presents the interim results of the analysis (the same applies below analyses).

The number of books by publication year is shown in Figure 2. The books are mainly from the 1930s, when Leontief came to U.S., through 1999, the year of his death, with the 1970s having the largest number of books, followed by the 1960s and 1950s.

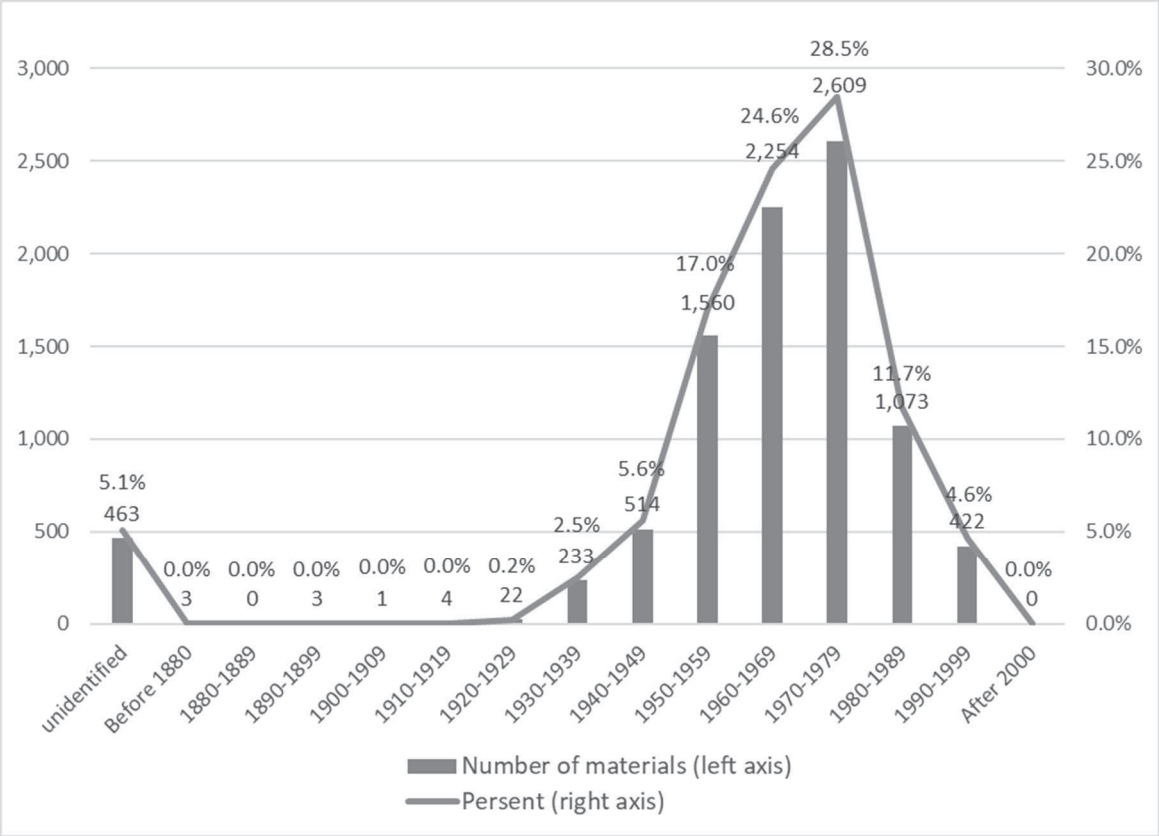


Figure 2 Publication year of the books

KH Coder version 3 (hereafter referred to as "KH Coder") is a text mining software developed by Professor Koichi Higuchi at Ritsumeikan University in Japan. The cross-tabulation with original language and publication year using the "Variables and Headings" in KH Coder is shown in Figure 3. When viewing Figure 3 vertically, it indicates which publication years of books exist for each original language. The size (area) of the square "bubbles" represents the percentage of books for each original language by publication year. For English, books are concentrated in the 1950s to 1970s; for French, in the 1960s to 1990s; for Italian, in the 1980s to 1990s; for Russian in the 1970s; for Spanish in the 1960s; and for German in the 1960s. One of the oldest books is *The Origin of Species* (6th edition) by Charles Darwin published in 1872, that is although reprinted one around 1900.

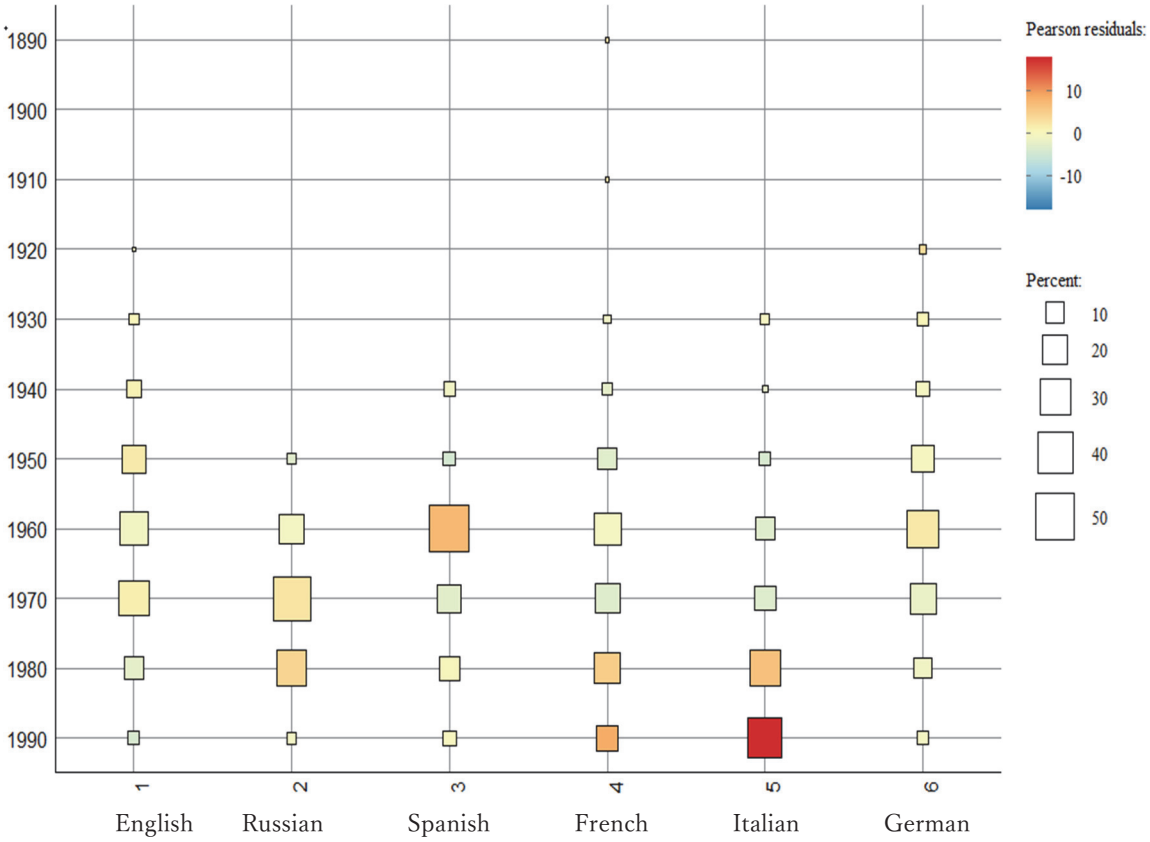


Figure 3 Cross-tabulation with original language and publication year

3. Classification Categories

Next, we analyzed what genres of books existed using KH Coder and other software. First, based on the classification categories of the Schumpeter Library of Hitotsubashi University Library[4], we add for example 'Input-Output Table', which was Leontief's specialty, to them. Words are extracted from the original texts by KH Corder, nouns are concatenated, and we select words with a high frequency of appearance to set new classification categories from the word frequency list, the function which enables us to view a list of words extracted by KH Coder (see Table 1). New detailed classification categories are set under the classification categories, "B. Economics," "L. Statistics," and "Z. Periodicals,". The classification categories of the Leontief Library are shown in Table 2.

Table 1 Examples of setting new classification categories using the word frequency list in KH Corder

Word Frequency List	Classification Categories	
Input-output model	Bd.	Input-Output Model
Economic planning	Be.	Economic Planning
Input-output table	La.	Input-Output Table
Population	Ld.	Population
Labor force	Le.	Labor Force
Econometrica	Za.	Journal & Report (Economics)
Economic journal	Za.	Journal & Report (Economics)
Note	※ Not Applicable	
Study		
Method		
They		
Fact		

Note: "Not applicable" means that although the words are extracted, we don't create new classifications for them.

[4] The Schumpeter Library is "a part of books Joseph Alois Schumpeter (1983.2.8-1950.1.8), who is as influential a modern economist as Keynes, collected when he was a Harvard University student. It includes economic journals from all over the world, offprint of papers sent to Schumpeter, also his favorite books." (Accessed on November 27, 2024).
https://www.lib.hit-u.ac.jp/en/retrieval-2/collections_bunken/collections/
The classification categories of the Schumpeter Collection of Hitotsubashi University Library were referred to the following website (Accessed on November 27, 2024).
https://www.lib.hit-u.ac.jp/retrieval/collections_bunken/collections/jsinserts/

Table 2 The list of classification categories

A.	General
B.	Economics
Ba.	Economic Theory
Bb.	Economic Policy
Bc.	Economic History & Condition
Bd.	Input-Output Model
Be.	Economic Planning
Bf.	Environment
C.	Public Finance
D.	Commerce & Management
E.	Accounting
F.	Money & Banking
G.	Transportation
H.	Insurance
I.	Industry
K.	Sociology & Social Problems
L.	Statistics
La.	Input-Output Table
Lb.	National Accounts & National Income
Lc.	Censuses
Ld.	Population
Le.	Labor Force
Lf.	Employment
Lg.	Housing
M.	Law
N.	Politics
O.	Philosophy
Q.	History
S.	Science & Technology
X.	Offprints
Z.	Periodicals
Za.	Journal & Report (Economics)
Zb.	Journal & Report (Others)

4. Classification Result

Each book was classified the above classification categories by using the search function, an Excel worksheet function. For some classification categories, the terms used in the search function are further detailed, amounting to about 190 terms. The correspondence between classification categories and the terms searched by the search function is shown in Table 3.

The classification result are shown in Table 4. Approximately 7,100 of all books are included in the analysis. It should be noted that in Table 4, the same book can be classified multiple times across different categories. While about 4,500 books are classified to only one classification category, the total number of duplicates amounts to about 6,100 and the number of books that counted in duplicate amounts to about 2,600.

We used the co-occurrence network diagram, a text mining analysis methods, which "visualizes the relationships between words in the text as a network diagram based on the connectivity of words, or the similarity of word appearance patterns in paragraphs or sentences" (Fukui and Abe 2013).

For a portion of the approximately 2,600 books that were counted as duplicates, we conducted a co-occurrence network diagram analysis to determine the classification categories in which the duplicates were classified. A co-occurrence network diagram is "a network diagram in which words with similar patterns of occurrence, i.e., words with a high degree of co-occurrence, among words with high frequency of occurrence in text data are connected by lines," and "the more frequently a word appears, the larger the circle is displayed" (Fukui and Abe 2013). The co-occurrence network diagram in Figure 4 depicts the top 60 by Jaccard coefficient, which is defined by $A \cap B/A \cup B$ in the case of two sets, with the minimum number of appearances of 35. The circles in the diagram are called "nodes," and each circle represents one word. The size of the circle indicates the frequency of appearance in the original text. Strongly connected nodes are automatically classified and color-coded in KH Corder, and the color-coded groups are called "subgraphs" (we add auxiliary lines to make it easier to understand the subgraphs in Figure 4). The line connecting the nodes is called an "edge,". The words connected by these lines appear together more frequently in the same original text. Solid edges connect words that belong to the same subgraph, while dotted edges connect words that belong to different subgraph. It is noted that the distance between words is not related to the degree of co-occurrence. The number of subgraphs is 11. Taking "S08" as example, this means that "JOURNAL" and "SCIENCE" are frequently appeared together in the same original text.

In addition, for subgraphs "S01," "S02," and "S05" in Figure 4, we referred to the original texts by using the KWIC concordance function in KH Coder (a function that we can refer to the original text in which a word is used) and extract duplicate cases as shown in Table 5. In

Case 1, the original text "Review of Economics and Statistics" is classified to "Za. Journal & Report (Economics)" for "Review of Economics and Statistics", and "Statistics" for "L. Statistics". Similarly, in Case 2, the original text "The Monthly Report on the Labor Force" is classified to "Z. Periodicals" for "The Monthly Report", and "Le. Labor Force" for "Labor Force". In Case 3, the original text " 1972 Census of Wholesale Trade" is classified to "Lc. Censuses" for "Census" and "B. Economics" for "Trade".

Table 3 Examples of the correspondence between the classification categories and the terms searched by the search function

Classification Categories		Terms Searched by the Search Function
B.	Economics	Economics
B.	Economics	Innovation
B.	Economics	Structural Change
B.	Economics	Technological Change
B.	Economics	Market
Ba.	Economic Theory	Theory
Ba.	Economic Theory	Linear Programming
Ba.	Economic Theory	Interest Rate
Ba.	Economic Theory	Business Cycles
Ba.	Economic Theory	Economic Dynamics
L.	Statistics	Statistics
L.	Statistics	Small-Area Data Notes
L.	Statistics	Figure
L.	Statistics	Trend
L.	Statistics	Economic Statistics
Za.	Journal & Report (Economics)	Econometrica
Za.	Journal & Report (Economics)	Review of Economics
Za.	Journal & Report (Economics)	American Economic Review
Za.	Journal & Report (Economics)	Economic Journal
Za.	Journal & Report (Economics)	Review of Economic Studies
Za.	Journal & Report (Economics)	Quarterly Journal of Economics

Table 4 Classification result

Classification Categories		Number
A.	General	28
B.	Economics	3,793
Ba.	Economic Theory	806
Bb.	Economic Policy	74
Bc.	Economic History & Condition	7
Bd.	Input-Output Model	135
Be.	Economic Planning	162
Bf.	Environment	175
C.	Public Finance	6
D.	Commerce & Management	47
E.	Accounting	37
F.	Money & Banking	68
G.	Transportation	166
H.	Insurance	2
I.	Industry	286
K.	Sociology & Social Problems	6
L.	Statistics	3,835
La.	Input-Output Table	204
Lb.	National Accounts & National Income	187
Lc.	Censuses	1,089
Ld.	Population	789
Le.	Labor Force	122
Lf.	Employment	154
Lg.	Housing	421
M.	Law	30
N.	Politics	19
O.	Philosophy	3
Q.	History	55
S.	Science & Technology	427
X.	Offprints	225
Z.	Periodicals	1,511
Za.	Journal & Report (Economics)	1,124
Zb.	Journal & Report (Others)	255

Table 5 Examples of the books classified in multiple classification categories

Case	Original Text	Correspondence of Words(upper) and Classification Categories(lower) ①	Correspondence of Words(upper) and Classification Categories(lower) ②
1	Review of Economics and Statistics	Review of Economics and Statistics	Statistics
		Za. Journal & Report (Economics)	L. Statistics
2	The Monthly Report on the Labor Force	The Monthly Report	Labor Force
		Z. Periodicals	Le. Labor Force
3	1972 Census of Wholesale Trade	Census	Trade
		Lc. Censuses	B. Economics

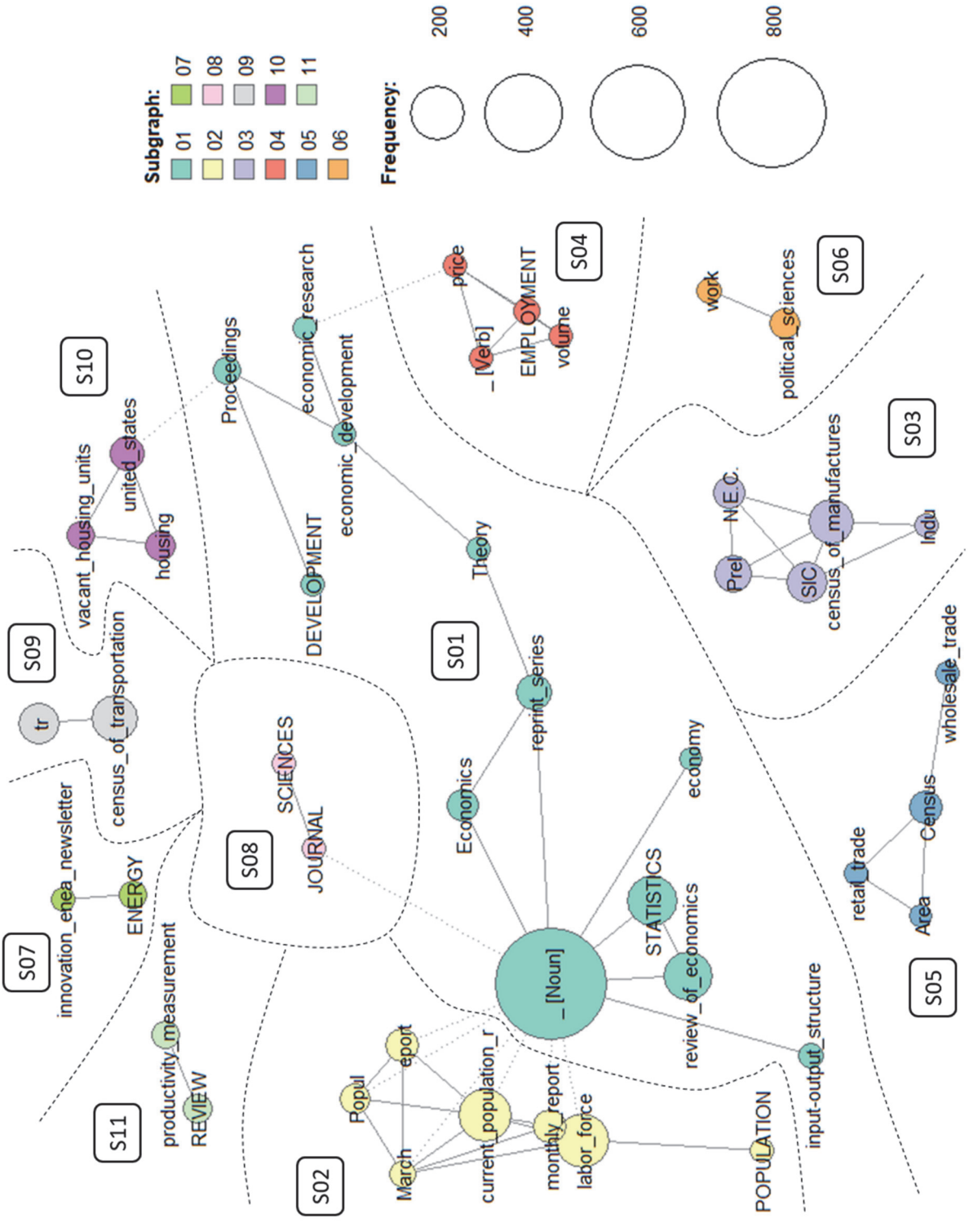


Figure 4 Co-occurrence networks diagram for the books classified in multiple classification categories

It can be considered that Table 4 shows that books in "B. Economics," "L. Statistics," and "Z. Periodicals" are particularly numerous. And “Economic Theory" among "B. Economics", "Lc. Censuses" and "Ld. Population" among "L. Statistics", and “Za. Reports (Economics)" among "Z. Periodicals” are considered to be particularly large.

Since Table 4 was classified mechanically by computer, we sampled some of the books and visually examined their classification to verify the accuracy, and checked whether the classification categories mechanically set by computer and the visual classification of the books were consistent or not. The 95% confidence interval of the “goodness of fit” was 0.880 ± 0.064, which is defined as “the number of books that are consistent with the classification categories” divided by “the number of books sampled”[5]. Therefore, the mechanical classification by computer is approximately 90% consistent.

Reference

Koichi Emi（2003）. “On the Leontief Library”, *Journal of seizon and life sciences*, Vol.14A, pp.59-60 [in Japanese]

Tsutomu Tanaka (1997). “Message”, *Input-Output Analysis -Innovation & I-0 Technique,* Vol.7, No.3, p.3 [in Japanese]

Jinkichi Tsukui (2003). “Prof. Dr. Wassily W. Leontief and the Institute of Seizon and Life Sciences”, *Journal of seizon and life sciences*, Vol.14A, pp.55-57 [in Japanese]

Shigeto Tsuru (1999). “Remembering-Prof. Dr. Wassily W. Leontief”, *Input-Output Analysis -Innovation & I-0 Technique,* Vol.9, No.1, pp.3-6 [in Japanese]

Koichi Higuchi (2020). *Quantitative text analysis for social research: Aiming for succession and development of content analysis* (2nd ed.), Nakanishiya Publishing [in Japanese]

Miya Fukui and Kazuhiro Abe (2013). “The Graphic Interpretation of the Co-occurrence Network Diagram in a Different Writing Style”, *Journal of Graphic Science of Japan*, Vol. 47, No. 4, pp.3-9 [in Japanese]

[5] The formula for calculating the 95% confidence interval is as follows,

$$\text{Goodness of Fit} \pm 1.96 \times \sqrt{\frac{\text{Goodness of Fit}(1-\text{Goodness of Fit})}{n}}, \text{where } n \text{ is samle size.}$$

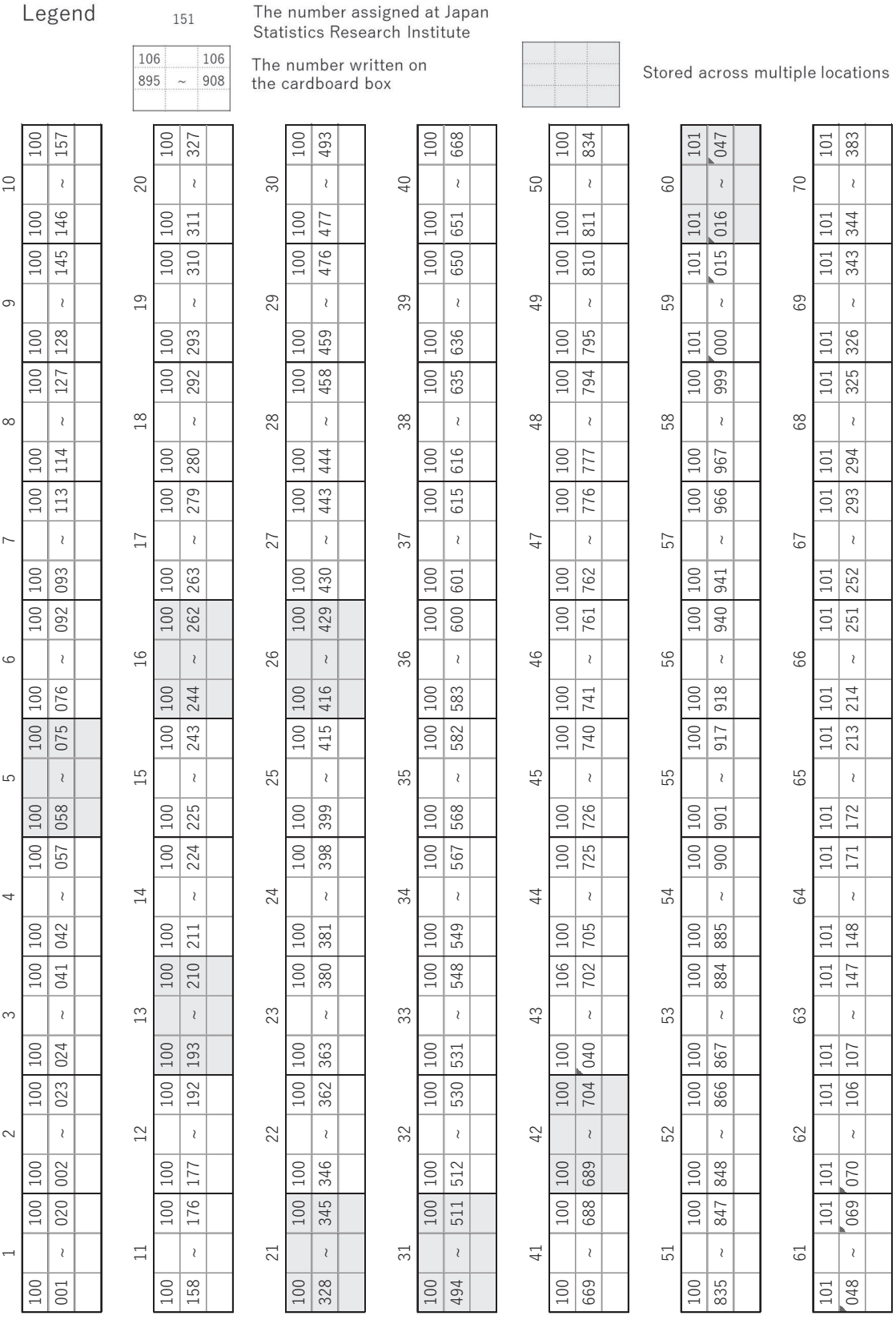
Appendix

Photograph A-1 The contents of a cardboard box

Note: The number in the upper left corner of the photograph was already assigned when the delivery by Hosei University.

Photograph A-2 The exterior of a cardboard box

Figure A-1 The list of cardboard boxes delivered from Chuo University (excluding those stored in cabinets at Chuo University)



71			72			73			74			75			76			77			78			79			80		
101		101	101		101	101		101	101		101	101		101	101		101	101		101	101		101	101		101	101		101
384	~	407	408	~	445	446	~	467	468	~	510	511	~	569	570	~	615	616	~	643	644	~	680	681	~	704	709	~	752

81			82			83			84			85			86			87			88			89			90		
101		101	101		101	101		102	102		102	102		102	102		102	102		102	102		102	102		102	102		102
726	~	782	728	~	967	968	~	228	229	~	251	252	~	348	349	~	378	379	~	446	447	~	531	532	~	814	692	~	936

91			92			93			94			95			96			97			98			99			100		
102		103	103		103	103		103	103		103	103		103	103		103	103		103	103		103	103		103	103		103
984	~	008	009	~	098	099	~	162	163	~	223	224	~	293	294	~	556	557	~	591	592	~	625	626		638	639	~	782
					2/2						3/3	1/4																	

101			102			103			104			105			106			107			108			109			110		
103		103	103		103	103		103	103		104	104		104	104		104	104		104	104		104	104		104	104		105
783	~	847	848	~	926	927	~	961	962	~	036	037	~	060	061	~	140	141	~	203	204	~	700	701	~	822	823	~	141
									1/2								2/2												

111			112			113			114			115			116			117			118			119			120		
105		105	105		105	105		105	105		105	105		105	105		105	105		105	105		105	106		106	106		106
142	~	225	229	~	325	326	~	383	384	~	464	465	~	567	568	~	716	717	~	899	901	~	987	015	~	127	102	~	177
																					1/2					2/2			1/2

121			122			123			124			125			126			127			128			129			130		
106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106
177	~	225	226	~	265	266	~	326	327	~	365	366	~	390	391	~	424	425	~	442	443	~	465	466	~	491	492	~	504
2/2																													

131			132			133			134			135			136			137			138			139			140		
106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106
505	~	530	531	~	569	570	~	589	590	~	614	622	~	635	636	~	652	653	~	668	669	~	683	684	~	701	705	~	714

142			142			143			144			145			146			147			148			149			150		
106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106	106		106
715	~	725	726	~	746	747	~	768	769	~	788	789	~	801	802	~	825	826	~	842	843	~	858	859	~	872	873	~	894

151			152			153			154			155			156			157			158			159			160		
106		106	106		106	106		106	106		106	106		106	106		107	106		107	107		107	107		107	107		107
895	~	908	909	~	925	926	~	951	952	~	970	971	~	993	994	~	007	703	~	335	008		038	039	~	052	053	~	065

161			162			163			164			165			166			167			168			169			170		
107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107
066	~	094	095	~	114	115	~	137	139	~	165	166	~	207	208	~	229	230	~	271	272	~	299	300	~	325	326	~	350
											2/2						2/2												

171			172			173			174			175			176			177			178			179			180		
107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107
351	~	370	371	~	391	391	~	404	405	~	416	418	~	444	445	~	478	479	~	498	499	~	507	508	~	539	540	~	570
					1/2	2/2																							

181			182			183			184			185			186			187			188			189			190		
107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107	107		107
571	~	594	595	~	614	615	~	630	631	~	646	647	~	675	676	~	726	727	~	789	790	~	809	407	~	830	810	~	834
																							2/2						

191			192			193			194			195			196			197			198			199			200		
107		107	107		107	107		107	107		107	107		107	107		107	108		108	108		108	108		108	108		108
836	~	870	871	~	896	897	~	934	935	~	964	965	~	983	984	~	999	000	~	023	024		039	040	~	061	063	~	091

201			202			203			204			205			206			207			208			209			210		
108		108	108		108	108		108	200		200	200		200	200		200	200		200	200		200	200		200	200		200
092	~	162	163	~	201	202	~	241	001	~	006	007	~	020	021	~	037	038	~	075	076	~	126	127	~	160	161	~	182

211			212			213			214			215			216			217			218			219			220		
200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200
183	~	196	197	~	217	218	~	235	236	~	262	263	~	273	274	~	299	300	~	325	326	~	359	360	~	380	381	~	415

221			222			223			224			225			226			227			228			229			230		
200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200
416	~	446	447	~	473	474	~	483	484	~	506	507	~	526	527	~	541	542	~	600	601	~	625	626	~	639	640	~	660

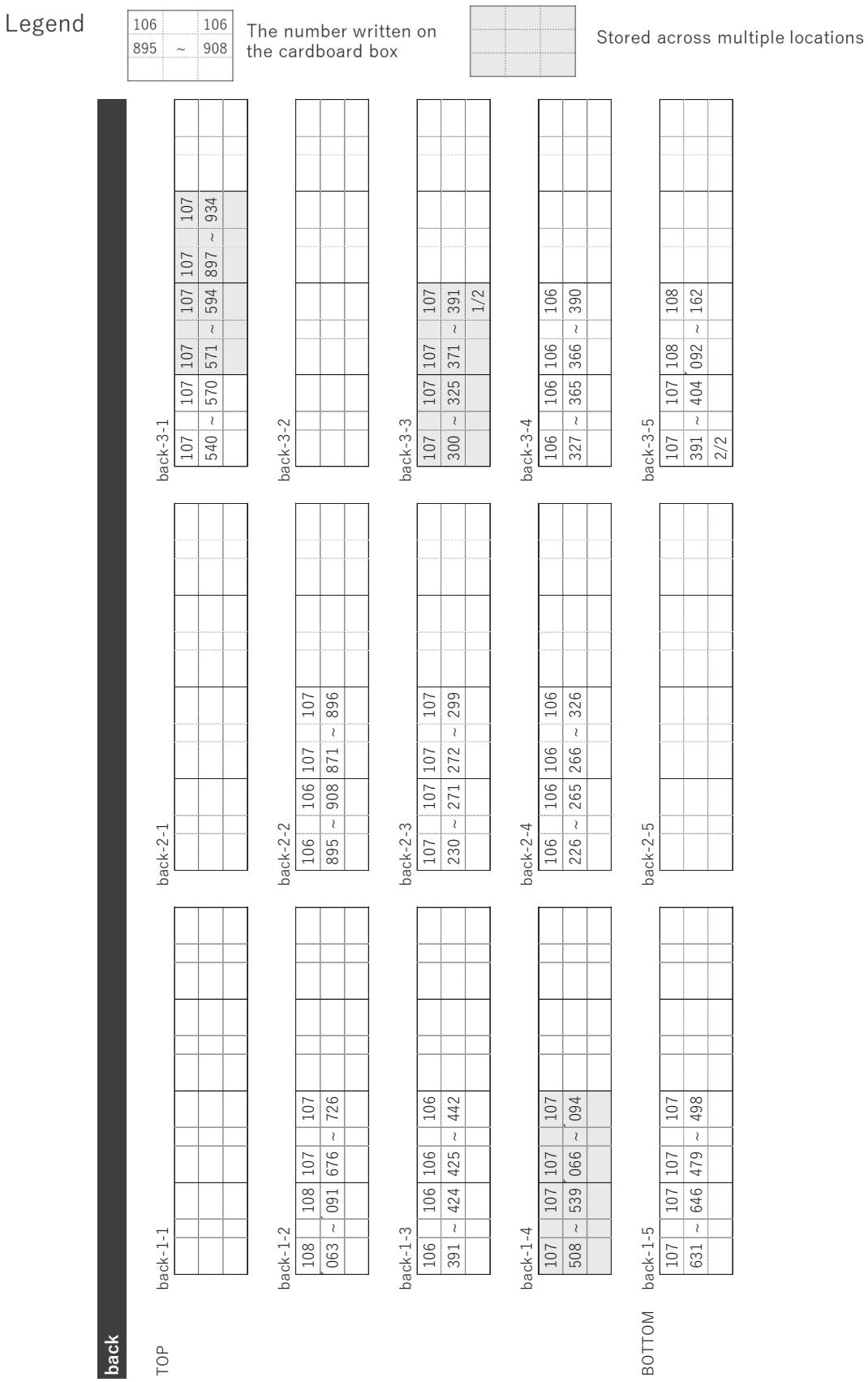
231			232			233			234			235			236			237			238			239			240		
200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200	200		200
661	~	683	684	~	693	694	~	711	712	~	726	727	~	752	753	~	791	792	~	826	827	~	837	838	~	879	880	~	918

241			242			243			244			245			246			247			248			249			250		
200		200	200		200	200		200	200		200	200		201	201		201	201		201	201		201	201		201	201		201
919	~	939	940	~	952	953	~	965	966	~	991	992	~	024	025	~	044	045	~	063	064	~	092	093	~	145	146	~	154

Photograph A-3 Stack room as a whole

Photograph A-4 The row A and B of the book shelves

Figure A-2 The distribution diagram



A

TOP

A-1-1

200		200	200		200	200		200			
263	~	273	792	~	826	727	~	752			

A-2-1

200		200	200		200	200		200			
727	~	752	416	~	446	360	~	380			

A-3-1

200		200	200		200	200		200			
661	~	683	381	~	415	218	~	235			

A-1-2

200		200	200		200	200		200			
183	~	196	197	~	217	753	~	791			

A-2-2

200		200	200		200	200		200			
753	~	791	838	~	879	827	~	837			

A-3-2

200		200	200		200						
940	~	952	274	~	299						

A-1-3

201		201	200		200	200		200			
064	~	092	161	~	182	076	~	126			

A-2-3

200		200	200		200	200		200			
076	~	126	127	~	160	021	~	037			

A-3-3

200		200	200		200	200		200			
021	~	037	038	~	075	919	~	939			

A-1-4

107		107	201		201	200		201			
508	~	539	093	~	145	992	~	024			

A-2-4

201		201	200		200	107		107	201		201			
045	~	063	712	~	726	571	~	594	025	~	044			

A-3-4

201		201	200		200	200		200			
025	~	044	007	~	020	684	~	693			

BOTTOM

A-1-5

107		107	107		107	107		107	107		107			
066	~	094	008		038	095	~	114	965	~	983			

A-2-5

107		107	106		106	107		107	107		107			
965	~	983	926	~	951	595	~	614	897	~	934			

A-3-5

106		106	107		107						
747	~	768	418	~	444						

B

TOP

B-1-1

200		200	200		200	200		200			
953	~	965	880	~	918	966	~	991			

B-2-1

200		200	200		200	201		201			
966	~	991	001	~	006	146	~	154			

B-1-2

106		106	106		106						
102	~	177	177	~	225						
		1/2	2/2								

B-2-2

100		100	100		100	100		100			
114	~	127	128	~	145	146	~	157			

B-3-2

100		100	100		100	100		100			
158	~	176	177	~	192	193	~	210			

B-1-3

105		105	104		104	103		103			
901	~	987	037	~	060	927	~	961			
1/2											

B-2-3

100		100	100		100	100		100	100		100
002	~	023	024	~	041	042	~	057	058	~	075
(001欠)			(040欠)								

B-3-3

100		100	100		100	100		100			
058	~	075	076	~	092	093	~	113			

B-1-4

103		104	103		103						
962	~	036	848	~	926						
1/2											

B-2-4

100		100	100		100	100		100			
459	~	476	477	~	493	494	~	511			

B-3-4

100		100	100		100	100		100	107		107
494	~	511	512	~	530	531	~	548	300		325

BOTTOM

B-1-5

107		107	106		106						
499	~	507	826	~	842						

B-2-5

100		100	100		100	100		100			
549	~	567	568	~	582	583	~	600			

B-3-5

100		100	100		100	107		107			
601	~	615	616	~	635	371	~	391			
								1/2			

C

TOP

C-2-1

200		200	200		200	200		200			
236	~	262	300	~	325	326	~	359			

C-3-1

200		200	200		200	200		200			
326	~	359	626	~	639	640	~	660			

C-1-2

100		100	100		100	100		100	100		100
193	~	210	211	~	224	225	~	243	244	~	262

C-2-2

100		100	100		100	100		100			
244	~	262	263	~	279	280	~	292			

C-3-2

105		105	105		105	106		106			
229	~	325	326	~	383	102	~	177			
								1/2			

C-1-3

100		100	100		100	100		100			
293	~	310	311	~	327	328	~	345			

C-2-3

100		100	100		100	100		100			
328	~	345	346	~	362	363	~	380			

C-3-3

106		106	105		105						
015	~	127	717	~	899						
		2/2									

C-1-4

100		100	100		100	100		100			
381	~	398	399	~	415	416	~	429			

C-2-4

100		100	100		100	100		100			
416	~	429	430	~	443	444	~	458			

C-3-4

101		101	104		104						
408	~	445	141	~	203						

BOTTOM

C-1-5

100		100	100		100	105		105			
636	~	650	651	~	668	568	~	716			

C-2-5

105		105	105		105	105		105			
568	~	716	465	~	567	384	~	464			

C-3-5

105		105	108		108	108		108			
384	~	464	163	~	201	024		039			

D

TOP

D-1-1

107		107	107		107	107		107			
836	~	870	647	~	675	727	~	789			

D-1-2

107		107	102		102						
810	~	834	349	~	378						

D-1-3

200		200	200		200						
507	~	526	447	~	473						

D-1-4

102		102	102		102	102		103			
447	~	531	532	~	814	984	~	008			

BOTTOM

D-1-5

101		101	101		101						
294	~	325	344	~	383						

D-2-1

107		107	107		107	107		107			
727	~	789	790	~	809	039	~	052			
					2/2						

D-2-2

101		101	107		107	106		106			
252	~	293	445	~	478	873	~	894			

D-2-3

106		106	200		200						
843	~	858	474	~	483						

D-2-4

102		103	101		102	101		101			
984	~	008	968	~	228	728	~	967			

D-2-5

101		101	101		101	101		101			
326	~	343	384	~	407	016	~	047			

D-3-1

106		106	106		106						
952	~	970	971	~	993						

D-3-2

106		106	106		106	107		107			
873	~	894	769	~	788	935	~	964			

D-3-3

102		102	102		102						
379	~	446	692	~	936						

D-3-4

102		102	102		102						
229	~	251	252	~	348						

D-3-5

101		101	101		101	101		101			
016	~	047	000	~	015	048	~	069			

E

TOP

E-1-1

107	107	106	107	106	106			
053 ~ 065	994 ~ 007	909 ~ 925						

E-2-1

106	106	200	200	200	200			
909 ~ 925	542 ~ 600	601 ~ 625						

E-3-1

200	200	200	200	108	108			
601 ~ 625	484 ~ 506	040 ~ 061						

E-1-2

107	107	107	200	200				
115 ~ 137	326 ~ 350	694 ~ 711						

E-2-2

200	200	108	108	107	107	106	106	
694 ~ 711	202 ~ 241	984 ~ 999	726 ~ 746					

E-3-2

106	106	107	107	200	200			
726 ~ 746	615 ~ 630	527 ~ 541						

E-1-3

106	106	106	106	106	106			
636 ~ 652	622 ~ 635	653 ~ 668						

E-2-3

106	106	106	106	108	108			
443 ~ 465	492 ~ 504	000 ~ 023						

E-3-3

108	108	106	106	106	106			
000 ~ 023	466 ~ 491	505 ~ 530						

E-1-4

106	106	106	106	106	106			
570 ~ 589	590 ~ 614	859 ~ 872						

E-2-4

106	106	106	106	107	107			
859 ~ 872	684 ~ 701	166 ~ 207						

E-3-4

106	106	106	106					
669 ~ 683	531 ~ 569							

BOTTOM

E-1-5

101	101	107	107	106	106			
214 ~ 251	405 ~ 416	715 ~ 725						

E-2-5

106	106	107	107	106	106	107	107	
715 ~ 725	351 ~ 370	705 ~ 714	139 ~ 165					

E-3-5

107	107	107	107	106	106			
139 ~ 165	208 ~ 229	789 ~ 801						

F

TOP

F-1-1

107		107	106		107	100		100			
407	~	830	703	~	335	001	~	020			

F-1-2

103		103	103		103						
592	~	625	626		638						

F-1-3

F-1-4

BOTTOM

F-1-5

F-2-1

100		100	100		100						
918	~	940	901	~	917						

F-2-2

100		100	100		100						
762	~	776	777	~	794						

F-2-3

100		100	101		101						
835	~	847	148	~	171						

F-2-4

101		101	101		101						
570	~	615	681	~	704						

F-2-5

101		101	101		101						
070	~	106	107	~	147						

F-3-1

103		103	100		100						
639	~	782	941	~	966						

F-3-2

100		100	100		100						
669	~	688	741	~	761						

F-3-3

103		103	101		101						
224	~	293	709	~	752						
1/4											

F-3-4

105		105	104		104						
142	~	225	204	~	700						

F-3-5

101		101	104		104						
446	~	467	061	~	140						
					2/2						

G

TOP

G-1-1

100	100	100	100	100	103	103		
867 ~ 884	885 ~ 900				783 ~ 847			

G-2-1

103	103	101	101	106	106			
783 ~ 847	172 ~ 213				802 ~ 825			

G-3-1

		100	106					
		040 ~ 702						

G-1-2

100	100	100	100	100	100	100		
705 ~ 725	726 ~ 740				689 ~ 704			

G-2-2

100	100	100	100	100	100			
689 ~ 704	811 ~ 834				795 ~ 810			

G-3-2

100	100	100	100	100				
848 ~ 866	967 ~ 999							

G-1-3

103	103	101	101					
163 ~ 223	726 ~ 782							
3/3								

G-2-3

103	103	103	103					
557 ~ 591	294 ~ 556							

G-3-3

G-1-4

104	104	103	103					
701 ~ 822	099 ~ 162							

G-2-4

101	101	103	103					
644 ~ 680	009 ~ 098							
	2/2							

G-3-4

BOTTOM

G-1-5

101	101	101	101					
511 ~ 569	468 ~ 510							

G-2-5

101	101	104	105					
616 ~ 643	823 ~ 141							

G-3-5

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