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BIBLIOMETRIC ASSESSMENT OF SCIENTIFIC JOURNALS FROM DBs JCR Social Science Edition

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Abstract

The present paper is devoted to bibliometric analysis of scientific journals presented in JCR:SSE DBs in 1994-1998 period. For I&LS journals this period was extended to 2004. The idea of Standard impact factor (K) which is used for evaluation of journals was to compare the traditional impact factor (Ip) of a journal, as indicated in JCR DB, with the average impact factor of the corresponding field of knowledge (Ig). Some examples of the results of this study are given in tabular form.

Introduction

Analysis of scientific periodicals is a very popular field of study in Information and Library Science. The very existence of Journal Citation Reports (JCR) provides a unique possibility for this kind of research. New mathematical models for evaluation of journals are introduced, multilevel classifications are elaborated, new fields of knowledge (marine biology, genetics, clinical medicine, information and library science, etc.) are covered [1]-[4].

The evaluation of scientific journals was always at the focus of the attention of bibliometric and webometric studies. On the basis of the Journal Citation Reports quantitative indicators new invariant or integrative were proposed indicators, e.g. the 'discipline impact factor' (*Hirst*) [5], or the 'total citation influence measure' (*Narin*). This contributed to a better understanding of the cognitive structure of the field under study and, as a rule, helped to identify the range of scientific journals of importance in a certain field. On the basis of the total influence measure, *Narin* has advanced the principle of hierarchical structure of scientific periodicals within subject fields [6]. Using JCR data for journals on human and medical genetics A.Pudovkin and E.Garfield calculated their 'relatedness factor (RF)' leading periodical in the field "Genetics".

In present study Standard impact factor K was used for evaluation all journals from DBs JCR:Social Science Edition 1994-1998.

Method and results

To evaluate a particular journal the traditional impact factor Ip should be compared to the standard impact factor of the corresponding field Ig. The most obvious and simple indicator would be the ratio of the two measures:

$K = (I_p / I_g) \times 100\%$ - relative (or standard) impact factor of journal. If a journal belongs to two or more fields the arithmetic mean of the two or more I_g 's may be used [7].

The technique of calculation of the standard impact factor for a field (I_g) is an inherent part of a method, which allows a cross-field evaluation of scientific journals. For each field 5 journals with the highest I_p values were selected. If the total number of papers in those journals (for the two preceding years) was less than 500 for science and 300 for social sciences, the list was extended until the threshold of 500 (or 300) was reached. The ratio of the total number of current year citations (in ISI source journals) of articles in the list journals (for two preceding years) to the total number of source items in the list journals (in the same two years) represents the group standard impact factor of the field:

$$I_g = \Sigma \Sigma R / \Sigma \Sigma S$$

The classification scheme of JCR in this period included 65 fields of social knowledge (nine of them were present only in one or two years, e.g. Neurosciences, Operation research & management science). So, in table 1 there are presented standard impact factors (I_g) for 56 fields of science

Table 1

Impact factor of fields of science I_g 1985-1999

	1994	1995	1996	1997	1998
<i>Anthropology</i>	1.62	1.76	1.61	1.52	1.64
<i>Archaeology</i>	0.76	0.73	0.65	0.02	0.02
<i>Area Studies</i>	0.99	0.87	1.07	0.70	0.79
<i>Business</i>	2.58	2.63	2.64	2.64	2.88
<i>Business, Finance</i>	1.77	1.87	1.79	1.88	1.59
<i>Communication</i>	0.89	0.99	1.02	0.81	1.06
<i>Criminology & Penology</i>	0.91	1.03	1.36	1.23	1.20
<i>Demography</i>	1.50	1.28	1.34	1.19	1.25
<i>Economics</i>	3.39	4.09	4.20	4.01	4.42
<i>Education & Educational Research</i>	2.38	2.62	2.81	1.66	2.10
<i>Education, Special</i>	1.32	1.39	1.39	1.46	1.15
<i>Environmental Studies</i>	1.14	1.34	1.27	1.42	1.37
<i>Ergonomics</i>	0.52	0.68	0.52	0.70	0.63
<i>Ethnic Studies</i>	0.47	0.32	0.38	0.43	0.52
<i>Family Studies</i>	1.33	1.32	1.22	1.32	1.19
<i>Geography</i>	2.06	1.70	1.90	1.85	1.79
<i>Geriatrics & Gerontology</i>	1.79	1.97	2.30	2.26	1.91
<i>Health Policy & Services</i>	2.29	1.93	2.20	2.29	2.74
<i>History</i>	0.85	0.96	0.86	0.97	1.09

<i>History & Philosophy of Science</i>	0.90	0.90	0.70	0.64	0.83
<i>History of Social Sciences</i>	0.96	0.73	0.82	0.90	0.87
<i>Industrial Relations & Labor</i>	1.10	1.20	1.38	1.15	1.24
<i>Information Science & Library Science</i>	1.11	1.11	1.22	1.52	1.66
<i>International Relations</i>	2.58	2.64	2.28	2.90	3.26
<i>Language & Linguistics</i>	1.58	1.95	1.50	1.64	2.46
<i>Law</i>	3.85	4.36	4.34	4.69	5.16
<i>Management</i>	2.34	2.56	2.36	2.52	2.58
<i>Medicine, Legal</i>	0.95	1.29	1.39	1.30	1.71
<i>Nursing</i>	0.72	1.07	1.13	1.35	0.88
<i>Philosophy</i>	0.94	1.15	1.02	0.91	1.08
<i>Planning & Development</i>	1.05	0.94	1.06	0.94	1.37
<i>Political Science</i>	1.69	1.88	1.69	1.44	1.68
<i>Psychiatry</i>	4.59	5.32	5.24	5.69	5.35
<i>Psychology</i>	4.97	5.82	4.28	4.95	5.51
<i>Psychology, Applied</i>	1.51	1.82	1.73	1.76	1.57
<i>Psychology, Biological</i>	-	1.77	2.69	2.64	2.39
<i>Psychology, Clinical</i>	2.40	3.08	3.61	3.19	3.41
<i>Psychology, Developmental</i>	2.19	2.84	2.85	2.74	3.04
<i>Psychology, Educational</i>	1.81	2.30	2.22	1.75	2.26
<i>Psychology, Experimental</i>	3.45	3.08	3.39	3.65	3.53
<i>Psychology, Mathematical</i>	0.59	0.97	1.22	1.22	1.24
<i>Psychology, Psychoanalysis</i>	-	0.87	0.74	1.07	1.28
<i>Psychology, Social</i>	2.58	2.19	2.41	2.50	2.40
<i>Public Administration</i>	0.73	1.00	0.83	0.82	0.93
<i>Public Health=Public Environmental & Occupational Health (od 1996)</i>	2.01	2.17	3.01	3.07	2.41
<i>Rehabilitation</i>	1.41	1.14	1.37	1.64	1.72

<i>Social Issues</i>	1.08	1.17	1.13	0.94	1.42
<i>Social Sciences, Biomedical</i>	0.97	1.15	1.14	1.20	1.33
<i>Social Sciences, Interdisciplinary</i>	1.08	2.96	2.56	1.48	1.14
<i>Social Sciences, Mathematical Methods</i>	1.62	1.61	1.62	1.37	1.53
<i>Social Work</i>	0.97	1.04	0.94	1.04	1.40
<i>Sociology</i>	1.84	2.16	2.44	2.02	2.19
<i>Substance Abuse</i>	1.43	1.27	1.33	1.27	1.51
<i>Transportation</i>	0.41	0.55	0.64	0.69	0.65
<i>Urban Studies</i>	0.76	1.02	1.03	0.94	1.13
<i>Women's Studies</i>	0.79	1.12	0.88	0.79	0.95

The standard indicator K may prove a better measure of a journal's impact factor than the traditional impact factor I_p of a scientific journal. Of course, I_p is the most significant single characteristic of a journal. A sharp increase of I_p a long-standing journal may be a signal of a very important and highly-cited paper appearing on its pages. Selection of journals on I_p alone is a good policy in working with one field of knowledge, but even in this case (as is seen in table 2) the growth of I_p is not always concomitant with the growth of scholarly status of a journal. Our new measure K (relative impact factor) may prove a more accurate indicator. The comparison of *Annual Review of Public Health* and *Transactions of The Institute of British Geographers* is important: K may grow with a decline in I_p and vice versa.

Table 2

TITLE of JOURNAL	1994		1995	
	I_p	K	I_p	K
Medical Care	2.57	112	2.42	125
Annual Review of Public Health	2.55	126	2.64	122
Transaction of the Institute of British Geographers	2.54	123	2.3	136
Cognitive Science	2.45	71	2.38	77
Journal of Legal Studies	2.43	63	2.37	54

The difference, when using this procedure in the evaluation of journals is striking (table 3).

Table 3

Journal	I_p	K
I group		
Food Policy	0.507	8.7
Trans Port Res A – Pol	0.582	89.5
Childhood	0.571	50.1
J Leisure Res	0.488	27.4
Mon Rev	0.563	33.5

Early Dev Parenting	0.500	16.4
2 group		
Am J Phys Antropol	1.749	106.6
Cognitive Psychol	3.737	105.9
Lat Am Res Rev	0.897	113.5

The journals in the first group differ slightly in their Ip values (within the group), while the differences in K are sometimes astounding. On the other hand, the journals in the second group differ very much in their Ip-s, but are quite comparable as far as K is concerned.

This measure was tested on all journals in social sciences represented in JCR:Social Science Edition (JCR:SSE) for period 1994-1998 [8]. In this period JCR:SSE DBs included 1811 different journals: 1994 - 1402, 1995 - 1455, 1996 - 1512, 1997 - 1672 and 1998 - 1679.

With almost permanent regrouping and reclassification of journals in the ISI DBs, with journals changing their titles, with the introduction of new journals establishing steady statistical characteristics of fields of knowledge becomes quite a challenge. It should be kept in mind that a journal may belong to more than one field, e.g among 1679 journals in 1998 550 journals belonged to 2 fields simultaneously, 65 - to three fields, 5 - to four fields and one journal 'RACE CLASS' (rank 559, K=36.2) belonged to 5 fields. It ranks 16 in Anthropology, 5 in Ethnic Studies, 17 in Social Issues, 15 in Social Science, Interdisciplinary and 26 in Sociology. It would rank 559 in the general list of journals in social science. The distribution of journal in accordance with their in the general list of journals K is as follows:

K	Number of journals
K >100	67
<100 K > 70	131
<70 K > 50	171
<50 K >30	350
< 30 K > 10	739
<10 K > 0	338
K = 0	15

The K value exceeds 200 for three journals: BEHAV BRAIN SCI (in Biological Psychology), ECONOMIST (in Economics) and ARCH GEN PSYCHIAT (in Psychiatry).

The 198 journals with K >70 belong to all fields of social sciences (see table 4). Again some of them may belong to three fields at once - e.g PHILOS PUBLIC AFF (K'=137), CHILD ABUSE NEGLECT (K'=117), J MED ETHICS (K'=97.5), EVOL HUM BEHAV (K'=80.4), J HEALTH POLIT POLIC (K'=75.6), FUTURE CHILD (K'=73.3).

In the field of *Information & Library Science* 5 journals belong to the group with K' > 70 in 1994 - 1998 period of highest Ks: J AM SOC INFORM SCI (K'=93.2, rank 86), ANNU REV INFORM (K'=90.3, rank 94), J DOC (K'=89.6, rank 99), COLL RES LIBR (K'=76.8, rank 162), LIBR QUART (K'=76.5, rank 163).

The geographical distribution of those 198 journals with K' > 70 is as follows: USA - 155, UK - 36, The Netherlands - 4, Switzerland - 2, in Australia - 1 (*CHINA J*).

Table 4

The journals from SSCI with Standard impact factor K > 70

TITLE ABBREVIATION	1994		1995		1996		1997		1998		K' (1994-1998)
	Ip	K	Ip	K	Ip	K	Ip	K	Ip	K	
1. BEHAV BRAIN SCI	0.639	12.9	15.625	660.7	9.000	342.8	8.118	307.5	8.800	368.2	338.4
2. ECONOMIST	7.915	233.5	10.302	251.9	12.186	290.1	9.167	228.6	10.490	237.3	248.3
3. ARCH GEN PSYCHIAT	11.416	248.7	11.155	209.7	11.509	219.6	10.751	188.9	9.398	175.7	208.5
4. IDENTITIES-GLOB STUD	-	-	-	-	0.467	122.9	1.250	290.7	0.769	147.9	187.2
5. AM HIST REV	1.063	125.1	1.719	179.1	1.707	198.5	1.393	143.6	1.882	172.7	163.8
6. RES ORGAN BEHAV	2.375	219.9	4.000	135.1	2.588	101.1	2.706	182.8	1.933	169.6	161.7
7. POPUL BULL	1.714	114.3	1.375	107.4	2.000	149.3	2.857	240.1	2.444	195.5	161.3
8. CRIMINOLOGY	1.755	192.9	1.460	141.7	2.489	183.0	1.686	137.1	1.768	147.3	160.4
9. J COGNITIVE NEUROSCI	-	-	4.383	64.6	3.679	240.5	4.844	132.7	5.220	147.9	146.4
10. AM POLIT SCI REV	2.431	143.8	2.924	155.5	2.523	149.3	2.078	144.3	2.284	136.0	145.8
11. KNOWL ACQUIS	-	-	1.143	103.0	2.300	188.5	-	-	-	-	145.8
12. J ROY STAT SOC A STA	-	-	-	-	-	-	1.556	113.6	1.962	172.1	142.9
13. HARVARD LAW REV	5.872	152.5	6.867	157.5	5.955	137.2	6.325	134.9	6.463	125.3	141.5
14. SIGNS	1.054	133.4	1.717	153.3	1.531	174.0	0.803	101.6	1.319	138.8	140.2
15. INT SECURITY	3.024	117.2	2.936	111.2	4.320	189.5	5.152	177.7	3.234	99.2	139.0
16. PHILOS PUBLIC AFF	1.577	173.3	1.259	114.5	0.846	85.5	1.261	141.7	1.957	171.2	137.2
17. ADV EXP SOC PSYCHOL	9.000	299.0	3.286	124.9	4.231	145.9	2.385	77.7	0.917	30.9	135.7
18. ACAD MANAGE REV	3.122	127.4	4.936	190.6	2.926	117.0	2.643	102.4	3.731	136.7	134.8
19. CHINA J (in 1995 changed since AUST J CHINESE AFF)	-	-	0.957	110.0	2.563	239.5	0.614	87.7	0.793	100.4	134.4
20. DEMOGRAPHY	1.815	121.0	1.633	127.6	1.833	136.8	1.493	125.5	1.933	154.6	133.1
21. PSYCHOL BULL	6.697	134.7	6.966	119.7	6.591	154.0	6.038	122.0	6.346	115.2	129.1
22. PSYCHOL REV	7.187	144.6	5.058	86.9	5.210	121.7	7.060	142.6	8.239	149.5	129.1
23. J ECON LIT	4.950	146.0	4.795	117.2	3.784	90.1	5.818	145.1	6.405	144.9	128.7
24. AM SOCIOL REV	2.156	117.2	2.782	128.8	2.896	118.7	2.941	145.6	2.888	131.9	128.4
25. AM J PUBLIC HEALTH	2.776	138.1	2.775	127.9	3.311	110.0	3.453	112.5	3.576	148.4	127.4
26. LEARN MEMORY	-	-	-	-	5.222	154.0	3.673	100.6	-	-	127.3
27. AM J SOCIOL	2.797	152.0	3.342	154.7	2.536	103.9	2.087	103.3	2.563	117.0	126.2
28. J ARCHAEO SCI	1.059	139.3	0.835	114.4	0.791	121.7	-	-	-	-	125.1
29. EXCEPT CHILDREN	1.366	100.4	1.978	157.0	2.000	144.9	1.836	118.5	1.380	96.2	123.4
30. ADMIN SCI QUART	3.152	128.7	2.659	102.7	3.093	123.7	3.306	128.1	3.538	129.6	122.6
31. J AM GERIATR SOC	2.049	114.5	2.321	117.8	2.508	109.0	2.806	124.2	2.792	146.2	122.3
32. RISK ANAL	1.238	209.8	1.298	80.6	2.078	128.3	1.271	92.8	1.066	93.5	121.0
33. SOC STUD SCI	0.938	118.7	1.125	125.0	0.970	138.6	0.629	98.3	1.021	123.0	120.7
34. CURR ANTHROPOL	2.257	139.3	2.403	136.5	1.652	102.6	1.919	126.3	1.602	97.7	120.5
35. ETHICS	1.185	126.1	1.327	115.4	1.169	114.6	1.167	128.2	1.279	118.4	120.5
36. ENVIRON PLANN D	2.056	129.3	1.662	109.3	1.986	125.7	2.149	131.8	1.623	102.7	119.8
37. J PERS SOC PSYCHOL	2.758	106.9	2.769	127.6	3.026	125.6	2.986	119.4	2.837	118.2	119.5
38. ANNU REV PSYCHOL	6.881	138.5	6.821	117.2	5.439	127.1	4.841	97.8	6.395	116.1	119.3
39. WORLD POLIT	3.594	139.3	2.935	111.2	3.111	136.4	3.444	118.8	2.943	90.3	119.2
40. REV EDUC RES	2.370	99.6	3.186	121.6	3.882	138.1	2.098	126.4	2.293	109.2	119.0
41. J APPL PSYCHOL	1.892	125.3	2.124	116.7	1.963	113.5	1.815	103.1	2.033	129.5	117.6
42. CHILD ABUSE NEGLECT	1.474	152.0	1.465	140.9	1.127	119.9	1.038	75.6	1.372	98.9	117.5
43. T I BRIT GEOGR	2.542	123.4	2.310	135.9	2.090	110.0	2.063	111.5	1.901	106.2	117.4
44. J STUD ALCOHOL	1.348	94.3	1.538	121.1	1.466	110.2	1.706	134.3	1.890	125.2	117.0
45. J GERONTOL (in 1995 split into J GERONTOL A-BIOL and J GERONTOL B- PSYCHOL	1.650	92.2	2.199	111.6	3.340	145.2	-	-	-	-	116.3
46. J MEM LANG	2.840	113.1	2.650	105.6	2.867	117.5	3.358	127.2	3.510	117.0	116.1
47. LEARN DISABILITY Q	1.659	122.0	2.500	198.4	1.488	107.8	1.500	96.8	0.780	54.4	115.9
48. J FINANC	1.772	100.1	1.894	101.3	2.123	118.6	2.173	115.6	2.137	134.4	114.0
49. J AM PLANN ASSOC	1.039	115.4	0.892	91.0	1.127	108.4	1.133	120.5	1.615	129.2	112.9
50. MILBANK Q	1.962	85.7	2.371	122.8	2.356	107.1	2.938	128.3	3.023	110.3	110.8
51. INT ORGAN	2.894	112.2	3.690	139.8	1.818	79.7	3.250	112.1	3.476	106.6	110.1

52.	CHILD DEV	2.320	116.0	3.190	124.1	2.838	112.2	2.067	92.3	2.625	99.0	108.7
53.	J CONSULT CLIN PSYCH	3.230	134.6	3.225	104.7	3.852	106.7	3.057	95.8	3.375	99.0	108.2
54.	IND LABOR RELAT REV	1.381	53.5	1.425	118.8	2.025	146.7	1.381	120.1	1.257	101.4	108.1
55.	ANNU REV PUBL HEALTH	2.547	126.7	2.648	122.0	3.583	119.0	2.021	65.8	2.571	106.7	108.0
56.	QUAL LIFE RES	-	-	1.698	104.8	2.126	102.7	2.563	116.0	-	-	107.8
57.	AM J PSYCHIAT	4.570	99.6	5.120	96.2	6.069	115.8	6.501	114.3	5.939	111.0	107.4
58.	CHINA QUART	-	-	1.115	128.2	1.135	106.1	0.783	111.9	0.605	76.6	105.7
59.	J MAT CULT	-	-	-	-	-	-	-	-	1.710	104.3	104.3
60.	REV RES EDUC	1.950	81.9	2.300	87.8	2.000	71.2	-	-	3.667	174.6	103.9
61.	MED CARE	2.567	112.1	2.418	125.3	2.437	110.8	2.186	95.5	2.058	75.1	103.8
62.	J MARKETING	2.373	92.0	2.431	92.4	3.254	123.3	2.783	105.4	2.929	101.7	103.0
63.	AM J PHYS ANTHROPOL	1.657	102.3	1.777	101.0	1.820	113.0	1.364	89.7	1.749	106.6	102.5
64.	COGNITIVE PSYCHOL	5.276	152.9	2.207	71.7	2.903	85.6	3.516	96.3	3.737	105.9	102.5
65.	ADV NURS SCI	1.214	168.6	1.250	116.8	0.759	67.2	0.904	67.0	0.800	90.9	102.1
66.	SPECTRUM-J STATE GOV	0.438	60.0	1.436	143.6	-	-	-	-	-	-	101.8
67.	J AM HIST	1.086	127.8	0.987	102.8	0.590	68.6	0.947	97.6	1.113	102.1	99.8
68.	GOVERNANCE	-	-	-	-	-	-	0.667	81.3	1.094	117.6	99.5
69.	MONOGR SOC RES CHILD	3.696	168.8	2.862	100.8	3.611	126.7	0.930	33.9	2.000	65.8	99.2
70.	J VOCAT BEHAV	1.302	86.2	2.521	138.5	1.726	99.8	1.544	87.7	1.230	78.3	98.1
71.	EDUC RES	3.500	147.1	4.213	160.8	4.333	154.2	0.043	2.6	0.500	23.8	97.7
72.	ISIS	0.714	90.4	1.171	130.1	0.515	73.6	0.344	53.8	1.161	139.9	97.6
73.	J MED ETHICS	0.930	93.9	1.342	111.8	1.548	131.2	0.790	75.2	1.057	75.3	97.5
74.	LAT AM RES REV	0.966	97.6	0.774	89.0	0.767	71.7	0.800	114.3	0.897	113.5	97.2
75.	ADDICTION	1.238	41.1	1.373	108.1	1.571	118.1	1.400	110.2	1.620	107.3	97.0
76.	HUM COMMUN RES	0.977	109.8	1.089	110.0	1.111	108.9	0.822	101.5	0.562	53.0	96.6
77.	J SPEECH LANG HEAR R (J (in 1997 changed since J SPEECH HEAR RES)	1.470	98.7	1.243	80.7	1.264	88.4	1.196	72.9	2.948	141.1	96.4
78.	INT J URBAN REGIONAL	1.014	112.7	0.845	86.2	1.264	121.5	0.865	92.0	0.873	69.8	96.4
79.	J RES CRIME DELINQ	0.940	103.3	0.979	95.0	1.417	104.2	1.098	89.3	1.070	89.2	96.2
80.	B HIST MED	-	-	-	-	-	-	0.818	127.8	0.528	63.6	95.7
81.	HEALTH AFFAIR	1.861	81.3	1.723	89.3	1.298	59.0	2.395	104.6	3.898	142.3	95.3
82.	YALE LAW J	4.028	104.6	3.171	72.7	3.693	85.1	4.588	97.8	6.012	116.5	95.3
83.	J HEALTH SOC BEHAV	1.345	66.9	2.412	111.2	2.305	76.6	2.984	119.4	2.415	100.4	94.9
84.	DEV PSYCHOPATHOL	1.928	88.0	2.852	100.4	2.358	82.7	3.192	116.5	2.633	86.6	94.8
85.	HEALTH CARE FINANC R	-	-	-	-	2.444	111.1	2.534	110.7	1.598	58.3	93.4
86.	J AM SOC INFORM SCI	1.074	96.8	1.156	104.1	1.231	100.9	1.260	82.9	1.350	81.3	93.2
87.	J COMMUN	0.514	57.8	0.833	84.1	0.712	69.8	0.986	121.7	1.407	132.7	93.2
88.	RES POLICY	1.298	123.6	0.800	85.1	1.021	96.3	0.946	54.7	1.162	58.8	92.9
89.	PSYCHOPHYSIOLOGY	2.659	77.1	2.948	121.6	2.827	93.0	2.774	88.2	2.432	82.2	92.4
90.	ACAD MANAGE J	2.204	90.0	2.314	89.3	2.340	93.6	2.526	97.9	2.449	89.7	92.1
91.	CONTEMP PSYCHOL	2.167	43.6	6.000	103.1	2.857	66.8	3.200	64.6	10.000	181.5	91.9
92.	EUR J IND RELAT	-	-	-	-	-	-	-	-	1.125	90.7	90.7
93.	COGNITIVE NEUROPSYCH	3.575	103.6	4.065	132.0	2.982	88.0	1.722	47.2	2.900	82.2	90.6
94.	ANNU REV INFORM SCI	0.941	84.8	1.111	100.1	1.529	125.3	1.000	65.8	1.250	75.3	90.3
95.	EDUC PSYCHOL	1.143	95.3	1.511	92.7	1.816	81.8	1.347	77.0	2.342	103.6	90.1
96.	ERGONOMICS	0.681	131.0	0.766	112.6	0.525	101.0	0.749	60.9	0.492	44.7	90.0
97.	J CLIN PSYCHIAT	3.130	89.7	3.337	79.5	4.293	97.1	4.003	90.2	4.073	93.0	89.9
98.	J EXP PSYCHOL GEN	2.828	82.0	3.545	115.1	2.711	80.0	2.545	69.7	3.600	102.0	89.8
99.	J DOC	1.033	93.1	0.931	83.9	1.139	93.4	1.250	82.2	1.585	95.5	89.6
100.	AM J MENT RETARD	0.710	52.2	0.962	76.3	1.389	100.7	1.598	103.1	1.656	115.4	89.5
101.	LANGUAGE	0.914	57.8	1.571	80.6	1.000	66.7	1.250	76.2	3.970	161.4	88.5
102.	PERS PSYCHOL	1.228	81.3	1.238	68.0	1.375	79.5	2.083	118.4	1.500	95.5	88.5
103.	TRANSPORT RES B-METH	0.354	86.3	0.277	50.4	0.590	92.2	0.729	105.7	0.689	106.0	88.1
104.	AM EDUC RES J	1.279	53.7	1.746	66.6	1.952	69.5	2.322	139.9	2.283	108.7	87.7
105.	ANTIPODE	2.100	101.9	1.486	87.4	1.243	65.4	1.639	88.6	1.667	93.1	87.3
106.	SOC WORK	0.792	81.6	0.843	81.1	0.802	85.3	1.119	107.6	1.121	80.1	87.1
107.	HUM NATURE-INT BIOS	-	-	1.152	79.4	1.056	77.1	1.405	103.3	1.290	86.6	86.6
108.	MICH LAW REV	3.319	86.2	4.588	105.2	3.421	78.8	3.765	80.3	4.137	80.2	86.1

109. ANNU REV SOCIOL	1.256	68.3	1.324	61.3	2.382	97.6	2.353	116.5	1.868	85.3	85.8
110. AM J POLIT SCI	1.210	71.6	1.596	84.9	1.347	79.7	1.476	102.5	1.446	86.1	85.0
111. PSYCHON B REV (J (in 1994 changed since B PSYCHONOMIC SOC)	0.258	43.7	1.88.3	93.0	2.247	97.5	2.327	95.6	2.271	95.2	85.0
112. AM ANTIQUITY	0.766	100.8	0.781	107.0	0.667	102.6	0.880	53.7	0.988	60.2	84.9
113. ECONOMETRICA	2.540	101.6	3.226	113.2	2.215	76.1	1.712	63.6	2.072	69.6	84.8
114. POPUL DEV REV	1.455	97.0	1.351	105.5	1.293	96.5	1.085	67.4	0.989	57.5	84.8
115. J HUM EVOL	1.342	82.8	1.407	79.9	1.439	89.4	1.142	75.1	1.579	96.3	84.7
116. PSYCHOANAL QUART	0.542	11.8	1.000	114.9	0.880	118.9	1.140	106.5	0.909	71.0	84.6
117. COLUMBIA LAW REV	2.787	72.4	2.526	57.9	4.063	93.6	4.987	106.3	4.611	89.4	83.9
118. SOC WORK RES (in 1995 changed since SOC WORK RES ABSTR)	0.487	50.2	0.849	81.7	0.420	44.7	0.800	76.9	2.323	165.9	83.9
119. TRANSPORT RES A-POL	0.424	103.4	0.470	85.5	0.462	72.2	0.474	68.7	0.582	89.5	83.9
120. J MARRIAGE FAM	1.485	93.7	1.651	94.9	1.411	77.1	1.438	86.1	1.132	67.0	83.8
121. HARVARD BUS REV	2.410	98.4	2.230	86.1	2.047	81.9	2.463	95.5	1.545	56.6	83.7
122. DEV CHANGE	0.612	58.3	1.167	124.1	0.943	89.0	0.796	84.7	0.846	61.8	83.6
123. PROG HUM GEOG	1.892	91.8	1.296	76.2	1.726	90.8	1.618	87.5	1.270	70.9	83.4
124. BIRTH-ISS PERINAT C	0.857	83.2	0.814	68.4	0.763	65.2	0.907	67.2	1.164	132.3	83.3
125. J RURAL STUD	0.862	82.1	0.949	101.0	0.935	88.2	0.758	80.6	0.831	60.7	82.5
126. HEALTH PSYCHOL	2.220	92.5	2.867	93.1	3.100	85.9	2.496	78.2	2.117	62.1	82.4
127. AM ANTHROPOL	1.402	86.5	1.916	108.9	1.471	91.4	1.104	72.6	0.844	51.5	82.2
128. STANFORD LAW REV	3.433	89.2	3.677	84.3	3.720	85.7	3.394	72.4	4.109	79.6	82.2
129. HIST SCI	0.875	110.8	0.846	94.0	0.667	95.3	0.406	63.4	0.391	47.1	82.1
130. GERONTOLOGIST	1.646	92.0	1.762	89.4	1.646	71.6	1.933	85.5	1.355	70.9	81.9
131. ANN ASSOC AM GEOGR	1.442	70.0	1.323	77.8	1.966	103.5	1.379	74.5	1.491	83.3	81.8
132. J ASSOC PERS SEVERE	0.804	57.0	0.885	77.6	1.091	79.6	1.667	101.6	1.600	93.0	81.8
133. FAM PLANN PERSPECT	1.321	95.0	1.164	89.5	0.700	54.7	1.067	85.4	1.013	83.0	81.5
134. STUD FAMILY PLANN	1.208	86.9	1.029	79.2	1.030	80.5	1.062	85.0	0.923	75.7	81.5
135. YEARB PHYS ANTHROPOL	1.125	69.4	-	-	-	-	1.294	85.1	1.471	89.7	81.4
136. PSYCHOTHER PSYCHOSOM	1.059	22.2	1.047	19.7	1.578	30.1	1.805	168.7	2.103	164.3	81.0
137. WRIT COMMUN	0.743	83.5	1.000	101.0	0.742	72.7	0.500	61.7	0.897	84.6	80.7
138. FOREIGN AFF	2.264	87.8	2.440	92.4	1.631	71.5	2.135	73.6	2.528	77.5	80.6
139. J EXP PSYCHOL LEARN	2.871	83.2	2.730	88.6	2.564	75.6	2.714	74.4	2.838	80.4	80.4
140. PUBLIC ADMIN REV	0.711	97.4	0.781	78.1	0.847	49.0	0.838	102.2	0.698	75.1	80.4
141. EVOL HUM BEHAV (in 1995 changed since ETHOL SOCIOBIOL)	0.760	54.1	1.638	96.7	1.383	66.2	1.500	76.8	2.129	108.1	80.4
142. DEV PSYCHOL	2.058	94.0	2.332	82.1	2.206	77.4	2.263	82.6	1.995	65.6	80.3
143. URBAN AFF REV	-	-	0.842	82.5	0.859	83.4	0.566	60.2	1.062	94.0	80.0
144. J PERS	2.606	101.0	1.485	68.4	1.507	62.5	1.600	64.0	2.486	103.6	79.9
145. J EDUC PSYCHOL	1.509	83.4	1.802	78.3	1.767	79.6	1.523	87.0	1.595	70.6	79.8
146. SECUR STUD	-	-	-	-	-	-	-	-	2.600	79.8	79.8
147. HASTINGS CENT REP	1.024	106.7	0.975	79.9	0.856	67.9	1.125	90.0	0.797	52.4	79.4
148. J DEMOCR	-	-	-	-	-	-	-	-	1.333	79.3	79.3
149. J COUNS PSYCHOL	1.308	78.8	1.521	73.8	1.683	85.4	1.426	81.5	1.430	74.7	78.8
150. PSYCHOL AGING	1.824	91.7	1.857	77.4	1.883	73.3	1.946	77.8	1.808	73.1	78.7
151. SCHIZOPHRENIA BULL	4.462	97.2	4.765	89.6	3.153	60.2	3.509	61.7	4.455	83.3	78.4
152. COMMUN MONOGR	0.548	61.6	1.095	110.6	0.879	86.2	0.622	76.8	0.595	56.1	78.3
153. COGNITION	3.384	98.1	1.693	55.0	2.573	75.9	2.973	81.5	2.833	80.3	78.2
154. AM PSYCHOL	4.209	84.7	5.304	91.1	3.299	77.1	3.076	62.1	4.067	73.8	77.8
155. J FAM ISSUES	1.250	94.0	0.983	74.5	1.230	100.8	0.565	42.8	0.909	76.4	77.7
156. BRIT J ADDICT	2.335	77.6	-	-	-	-	-	-	-	-	77.6
157. REV FINANC STUD	1.721	97.2	1.733	92.7	1.129	63.1	1.329	70.7	1.014	63.8	77.5
158. INT J PSYCHOANAL	0.444	9.7	0.870	100.0	0.951	128.5	0.847	79.2	0.898	70.2	77.5
159. RES NURS HEALTH	0.673	93.5	0.959	89.6	0.870	77.0	0.680	50.4	0.673	76.5	77.4
160. BIOL PHILOS	0.780	98.7	0.561	62.3	0.600	85.7	0.528	82.5	0.474	57.1	77.3
161. CALIF LAW REV	2.653	68.9	3.623	83.1	4.255	98.0	2.674	57.0	4.018	77.9	77.0
162. COLL RES LIBR	1.314	118.4	0.865	77.9	0.913	74.8	0.785	51.6	1.014	61.1	76.8
163. LIBR QUART	0.933	84.1	0.970	87.4	0.481	39.4	1.360	89.5	1.360	81.9	76.5
164. IND RELAT	1.185	45.9	0.679	56.6	1.068	77.4	1.148	99.8	1.269	102.3	76.4
165. J LEARN DISABIL	1.440	105.9	1.190	94.4	1.148	83.2	0.634	40.9	0.806	56.2	76.1
166. J EXP PSYCHOL HUMAN	2.875	83.3	2.732	88.7	2.561	75.5	2.299	63.0	2.406	68.2	75.7
167. OCCUP THER J RES	0.737	52.3	0.559	49.0	1.000	73.0	1.500	91.5	1.935	112.5	75.7
168. J AM ACAD CHILD PSY	2.386	52.0	2.884	70.7	3.086	76.3	3.793	90.0	3.732	88.9	75.6
169. J HEALTH POLIT POLIC	0.935	64.9	1.120	76.5	1.068	68.0	1.123	74.4	1.848	94.4	75.6

170. J HIST GEOGR	0.718	34.9	0.806	66.6	1.571	115.5	1.514	110.5	0.628	47.2	74.9
171. READ RES QUART	2.175	104.1	1.833	74.5	0.922	36.7	1.464	86.1	1.541	70.7	74.4
172. J ABNORM PSYCHOL	3.301	83.4	3.030	68.1	3.360	85.3	2.678	65.8	3.077	69.0	74.3
173. POP STUD-J DEMOG	1.304	86.9	0.875	68.4	1.071	79.9	0.849	71.3	0.800	64.0	74.1
174. COMP POLIT	1.310	77.5	1.150	61.2	0.900	53.3	1.028	71.4	1.769	105.3	73.7
175. HOUS POLICY DEBATE	-	-	-	-	-	-	0.569	60.5	1.080	86.4	73.5
176. FUTURE CHILD	-	-	-	-	-	-	1.568	92.4	0.914	54.1	73.3
177. J AM ETHNIC HIST	0.167	34.1	0.370	115.6	0.261	68.7	-	-	-	-	72.8
178. LINGUIST INQ	1.204	76.2	1.702	87.3	1.143	76.2	1.100	67.1	1.409	57.3	72.8
179. APPL ERGON	0.453	87.1	0.238	35.0	0.360	69.2	0.567	81.0	0.567	90	72.5
180. OSIRIS	-	-	-	-	-	-	0.667	104.2	0.333	40.1	72.2
181. ANTIQUITY	0.309	40.7	0.652	89.3	0.560	86.2	-	-	-	-	72.1
182. J FINANC ECON	1.667	55.9	2.138	71.7	2.609	87.3	2.506	85.2	1.767	58.9	71.8
183. AM J ARCHAEOL	0.509	67.0	0.766	104.9	0.282	43.4	-	-	-	-	71.8
184. NURS SCI QUART	-	-	-	-	0.900	79.6	0.733	54.3	0.714	81.1	71.7
185. MOD CHINA	1.125	113.6	0.909	104.5	0.281	26.3	0.355	50.7	0.500	63.3	71.7
186. NURS RES	0.528	73.3	0.783	73.2	0.882	78.1	0.720	53.3	0.708	80.5	71.7
187. NURS OUTLOOK	0.662	91.9	0.529	49.4	0.773	68.4	0.721	53.4	0.818	93.0	71.2
188. SOC SERV REV	1.050	108.2	0.786	75.6	0.518	55.1	0.741	71.3	0.642	45.9	71.2
189. J POLICY ANAL MANAG	0.689	94.4	0.443	44.3	0.826	47.7	0.610	74.4	0.873	93.9	70.9
190. BRIT J HIST SCI	0.636	80.5	0.743	82.6	0.563	80.4	0.367	57.3	0.444	53.5	70.9
191. BRIT J POLIT SCI	1.047	62.0	1.213	64.5	1.648	97.5	1.228	85.3	0.762	45.4	70.9
192. NEUROPSYCHOLOGY	-	-	-	-	-	-	2.064	64.7	2.613	76.6	70.7
193. Q J ECON	2.291	67.6	2.132	52.1	3.202	76.2	3.074	76.7	3.537	80.0	70.5
194. REG STUD	0.861	75.5	1.121	83.7	0.712	56.1	0.836	58.9	1.075	78.5	70.5
195. HUM RESOURCE MANAGE	1.188	64.6	1.875	85.6	1.610	78.7	1.698	79.3	0.912	44.0	70.4
196. POLIT GEOGR	1.394	74.5	0.870	48.6	1.222	68.3	0.987	60.2	1.725	99.4	70.2
197. COMMUN RES	0.464	52.1	0.592	59.8	1.061	104.0	0.630	77.8	0.600	56.6	70.1
198. J SOC ISSUES	0.837	77.5	1.111	95.0	0.736	65.1	0.617	65.6	0.674	47.5	70.1

Evaluation of I&LS journals in period 1999-2004

The study was extended for the period of 1999-2004 for I&LS journals. Dynamics of Standard impact factor K of I&LS journals is presented in table 5 for 1999-2004 period.

Table 5

JCR:SSE Information Science and Library Science Standard Impact factor K

	1999	2000	2001	K' 1999-2001	2002	2003	2004	K' 2002-2004	K' 1999-2004
Annual Review of Information Science and Technology	86,6	-	45,5	66,0	98,2	125,6	149,0	124,3	101,0
Journal of the American Medical Informatics Association	142,3	177,5	48,1	122,7	29,9	110,1	90,7	76,9	99,8
Mis Quarterly	53,7	88,2	78,1	73,3	116,3	103,3	100,8	106,8	90,1
Journal of Documentation	96,4	94,3	122,5	104,4	91,0	70,3	53,5	71,6	88,0
Library and Information Science	190,8	67,1	51,9	103,3	62,2	36,5	104,2	67,6	85,4
Journal of the American Society for Information Science and Technology	79,8	70,5	99,5	83,2	98,0	64,6	72,4	78,3	80,8

Information Systems Research	40,2	62,8	71,2	58,0	73,3	84,1	104,2	87,2	72,6
Internet World	-	67,1	-	67,1	-	-	-	-	67,1
Information Processing & Management	46,6	41,3	113,8	67,2	83,2	51,7	45,0	60,0	63,6
College & Research Libraries	63,6	52,0	41,2	52,3	65,2	58,9	40,2	54,8	53,5
Information & Management	23,4	29,2	51,1	34,6	52,6	65,0	63,5	60,4	47,5
Journal of Health Communication	42,9	31,7	54,0	42,9	75,0	50,5	29,4	51,6	47,3
Scientometrics	56,1	37,9	41,0	45,0	47,2	54,9	38,9	47,0	46,0
International Journal of Geographical Information Science	51,4	49,4	49,7	50,2	37,7	41,2	45,4	41,4	45,8
Journal of Information Science	39,7	27,2	42,8	36,6	59,7	46,8	31,2	45,9	41,2
Journal of the Medical Library Association (do 2002 Bulletin of the Medical Library Association)	45,6	19,7	37,9	34,4	52,4	40,6	31,9	41,7	38,0
Journal of Management Information Systems	-	-	14,0	14,0	42,2	45,0	44,4	43,9	36,4
Telecommunications Policy	29,9	50,1	44,6	41,5	26,7	46,4	2,28	29,2	35,4
Information Society	25,1	23,2	44,5	31,0	60,1	23,6	23,2	35,6	33,3
Library Quarterly	65,1	23,4	27,4	38,6	27,6	21,3	32,4	27,1	32,9
Journal of Academic Librarianship	32,7	17,0	40,7	30,1	38,6	28,4	35,9	34,3	32,2
Library Trends	53,4	18,2	41,5	37,7	41,8	19,3	18,0	26,4	32,0
Social Science Computer Review	32,0	29,0	25,1	28,7	33,1	38,9	31,8	34,6	31,7
Information Research-An International Electronic Journal	-	-	-	-	-	-	29,2	29,2	29,2
International Journal of Information Management	20,4	24,4	36,4	27,0	33,3	38,8	12,9	28,3	27,7
Journal of Information Technology	10,0	16,3	23,7	16,7	51,3	23,6	29,7	34,9	25,8
Restaurator-International Journal for the Preservation of Library and Archival Material	25,5	43,6	17,3	28,8	20,7	24,5	20,0	21,7	25,3
Government Information Quarterly	24,6	10,9	18,1	17,9	17,7	40,2	39,1	32,3	25,1
Reference & User Services Quarterly (do 1998 Rq)	39,8	10,6	27,0	25,8	33,9	13,7	15,5	21,0	23,4
Library & Information Science Research	27,4	17,1	21,9	22,1	25,1	32,2	13,7	23,7	22,9
Library Resources & Technical Services	20,5	20,7	27,6	23,0	13,1	40,5	10,4	21,3	22,1
ASLIB Proceedings	19,5	22,8	27,5	23,3	20,3	20,1	15,8	18,8	21,0
Knowledge Organization	12,5	44,7	27,6	28,3	15,5	8,8	15,4	13,2	20,7
Online	15,2	26,2	30,3	23,9	31,2	12,5	7,4	17,0	20,4
Online Information Review (do 2000 Online & CDROM Review)	17,7	11,8	34,5	21,3	19,3	18,3	20,2	19,2	20,3
Scientist	32,6	19,9	27,7	26,7	20,2	12,5	8,6	13,7	20,2
Portal-Libraries and the Academy	-	-	-	-	-	-	18,8	18,8	18,8
Journal of Librarianship and Information Science	23,4	15,1	15,6	18,0	18,4	12,9	17,8	16,4	17,2
Program-Electronic Library and Information Systems	24,6	20,9	19,3	21,6	13,8	18,2	5,9	12,7	17,1
Research Evaluation	-	-	-	-	17,0	21,3	12,9	17,1	17,1
Information Technology and Libraries	20,1	27,6	15,7	21,1	17,1	8,8	8,3	11,4	16,3
Information Systems Journal	9,4	21,6	15,2	15,4	12,5	22,6	13,7	16,3	15,8
Interlending & Document Supply	20,1	23,0	12,8	18,6	5,1	12,0	18,6	11,9	15,3
Social Science Information Sur Les Sciences Sociales	17,3	17,8	18,8	18,0	10,7	12,7	2,16	10,5	14,2
Library Journal	21,7	15,2	16,2	17,7	11,3	9,1	9,2	9,9	13,8
Library Collections Acquisitions & Technical Services (do 1999 Library Acquisitions-Practice and Theory)	15,3	7,8	11,4	11,5	18,4	10,1	13,4	14,0	12,7
Econtent (till 1999 Database)	16,6	26,3	21,5	21,5	4,6	1,8	2,4	2,9	12,2
Electronic Library	14,8	10,9	24,1	16,6	10,1	4,7	8,1	7,6	12,1

Journal of Government Information	13,9	18,9	9,6	14,1	8,8	3,8	7,9	6,8	10,5
Libri	10,8	10,8	9,3	10,3	6,8	13,7	11,4	10,6	10,5
Law Library Journal	4,8	3,0	13,3	7,0	19,1	8,5	10,3	12,6	9,8
International Forum on Information and Documentation	9,6	-	-	9,6	-	-	-	-	9,6
Journal of Scholarly Publishing	13,4	4,9	18,2	12,2	4,5	6,3	6,0	5,6	8,9
Journal of Information Ethics	5,7	8,5	11,6	8,6	7,9	1,9	7,5	5,8	7,2
Canadian Journal of Information and Library Science- <i>Revue Canadienne des Sciences de l'Information</i>	11,3	9,6	6,7	9,2	0,0	3,1	10,7	4,6	6,9
Zeitschrift für Bibliothekswesen Und Bibliographie	4,9	6,0	5,0	5,3	2,6	3,0	2,88	3,3	4,3
Nachrichten für Dokumentation (Nfd Information-Wissenschaft und Praxis)	6,7	1,7	3,3	3,9	0,6	0,6	-	0,4	2,1
Proceedings of the ASIS Annual Meeting	0,0	-	0,8	0,4	2,7	1,1	-	1,9	1,1
Behavioral & Social Sciences Librarian	0,0	0,0	-	0,0	-	-	-	-	0,0
Journal of Education for Library and Information Science	0,0	-	-	0,0	-	-	-	-	0,0

One can follow the long-term changes of K of leading journals in the field of Information & Library Science in three period: 1994-98, 1999-02 and 2002-04 (table 6).

Journal *Information System Research* has shown stable growth K (44 in 1994-98, 58 in 1999-02 and 87 in 2002-04) while *College & Research Libraries* and *Library Quarterly* have demonstrated dramatic decline of their K. Journal *Library Quarterly* has had K =76 in 1994-98, 38 in 1999-01 and only 27 in 2002-04. *The Journal of the American Society for Information Science and Technology* ranked first in 1994-1998, it moved to 4 th place in 1999-2001. The journal *Scientometrics* has had stable Standard impact factor during 1994-2004, its values were close to 45-47.

Table 6

JCR:SSE Information Science and Library Science
Standard Impact factor K

Journal	K' 1994-1998	K' 1999-2001	K' 2002-2004	K' 1999-2004
Annual Review of Information Science and Technology	90,3	66,0	124,3	101,0
Journal of the American Medical Informatics Association	66,6	122,7	76,9	99,8
Mis Quarterly	73,0	73,3	106,8	90,1
Journal of Documentation	89,6	104,4	71,6	88,0
Library and Information Science	50,5	103,3	67,6	85,4
Journal of the American Society for Information Science and Technology	93,2	83,2	78,3	80,8
Information Systems Research	44,9	58,0	87,2	72,6
Internet World	17,1	67,1	-	67,1
Information Processing & Management	44,7	67,2	60,0	63,6
College & Research Libraries	76,8	52,3	54,8	53,5
Information & Management	38,9	34,6	60,4	47,5
Journal of Health Communication	-	42,9	51,6	47,3
Scientometrics	45,9	45,0	47,0	46,0

International Journal of Geographical Information Science	-	50,2	41,4	45,8
Journal of Information Science	32,4	36,6	45,9	41,2
Library Quarterly	76,5	38,6	27,1	32,9

Conclusion

The Standard impact factor K introduced in this paper proved its efficiency as a tool of cross-field comparison of scholarly journals. The magnitude of variation of I_p from JCR DBs between fields was reduced significantly by the new measure of influence. The first 50 journals ranked according to I_p belong to 19 fields of science with four fields (Psychiatry, Psychology, experimental, Law) covering half of journals in the list. The corresponding list of 50 journals ranked by Standard impact factor K covers 45 fields, including such fields in humanities that traditionally show lower impact factors I_p (Ethics, History, History & philosophy of science, Demography, Women's Studies, Urban Studies, etc).

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