Current Comments

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Arts and Humanities Journals Differ from Natural and Social Sciences Journals—
But Their Similarities Are Surprising

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Considering the number of essays we have published about scientific literature since Science Citation Index® (SCI®) began, you might be surprised to learn that the first article I wrote on citation indexing actually dealt with the humanities literature. That 1955 paper was presented at the American Documentation Institute, Philadelphia, the predecessor of the American Society for Information Science. It discussed the use of citation indexing in relating biblical studies to the history of science.1 This thread of connectivity between the humanities and science continues at ISI® and explains, in part, why we publish Current Contents® / Arts & Humanities (CC®/A&H)2 as well as Arts & Humanities Citation Index TM (A&HCI TM).3

Not surprisingly, the arts and humanities literature poses unique problems. Many of them became obvious when we prepared for the initial publication of A&HCI. In comparison to the relatively uniform citation practices of scientific researchers, those of arts and humanities scholars are seemingly unconventional and idiosyncratic. This is due to the wide variety of citation practices followed by humanities journals.

For example, literary critics may quote whole passages of a play or novel without including the work in their references. These "implicit" citations are recorded by our indexers and added to the formal citations listed in the article's references. Even when the work is explicitly cited, one author might refer to Samuel Clemens's Huckleberry Finn while another cites his pseudonym,

Mark Twain, and uses the title The Adventures of Huckleberry Finn.

More important, however, is the fact that arts and humanities authors typically cite books rather than journal articles. This presents problems when several editions in various languages are in print. In addition, authors refer to many types of artistic works other than books and articles-e.g., paintings, performances, poems, recordings, exhibits, films, etc. It was difficult, but not impossible, to overcome these unique problems and impose uniform citation standards where none existed before. One hopes that journal editors in the humanities will one day adopt international standards on citation practices not unlike the Vancouver style for biomedical journals.4

I've discussed ISI's solutions to the problems of indexing arts and humanities literature elsewhere, 3,5,6 so I won't go into detail here. But when you consider the volume of literature covered in A&HCI, you'll appreciate that these problems are far from trivial. The 1981 A&HCI comprehensively covered 1,185 journals in archaeology, architecture, art, classics, dance, film, radio, television, folklore, history, language and linguistics, literary review, literature, music, poetry, philosophy, religion, and theater. In addition, more than 5,000 journals covered in SCI and Social Sciences Citation Index® (SSCI®) were selectively screened for relevant articles in these and other fields such as history and philosophy of science, anthropology, law, economics, sociology, etc.

Also, about 120 multiauthored serials, monographs, or "books" are covered in A&HCI.

Table 1 presents a "profile" of the 1981 A&HCI data base, showing the types and numbers of items indexed that year. Also shown are the total and average numbers of references included in each. Most A&HCI journals publish items not typically found in natural and social sciences journals—e.g., poems, creative prose, and critical reviews of books, films, performances, exhibits. These are in addition to original research articles, reviews of the literature, and other items typically found in scientific journals. However, the importance of book reviews is demonstrated in Table 1.

Nearly 107,000 items were indexed in the 1981 A&HCI, and 43.5 percent were book reviews. A&HCI "source" items produced or contained nearly 701,500 cited references. Of these, nine percent or 63,000 references were pseudo-citations—that is, when a book is reviewed its title does not appear as a formal citation, as do other articles or books that may be cited by the reviewer.

If we add together reviews of books, exhibits, theater productions, films, musical performances, scores, records, radio and television programs, and dance performances, these critical reviews represent 53 percent of the source items—but provide only 12 percent of the cited references. The average critical review cited only 1.5 references in 1981. This includes the pseudo-citation to the book itself.

Original scholarly articles represent the second largest group, accounting for 26 percent of all source publications indexed. Significantly, these articles account for 74 percent of the references processed. The average A&HCI article cited 19 references in 1981. If we add together data on articles and reviews of research (not of artworks or performances), they would account for 28 percent of the source items and 82 percent of the references processed. The overall average number of references cited in

Table 1: Breakdown of items indexed in the 1981 A&HCI , in order of total number of items. A=type of item. B=number of items. C=number of references. D=average number of references per item.

A	В	c	Đ		
Book Reviews	46,528	63,995	1.4		
Articles	28,210	521,648	18.5		
Poems	8157	138	_		
Notes	5208	23,228	4.5		
Art Exhibit Reviews	2457	5761	2.3		
Editorials and					
Interviews	2217	7307	3.3		
Theater Reviews	1581	4185	2.6		
Letters	1529	2645	1.7		
Film Reviews	1519	2047	1.3		
Bibliographies/					
Reviews	1481	54,050	36.5		
Musical Performance					
Reviews	1459	3745	2.6		
Creative Prose	1429	194	-		
Record Reviews	1379	1634	1.2		
Biographical Items	1082	4560	4.2		
Music Score Reviews	755	812	1.1		
Dance Performance					
Reviews	579	1894	3.3		
Meeting Abstracts	418	300	.7		
Discussions	306	2237	7.3		
Excerpts	158	146	.9		
Scripts	124	31	_		
TV/Radio Reviews	106	399	3.8		
Corrections	76	129	1.7		
Music Scores	55	11	_		
Chronologies	29	384	13.2		
Total	106,842	701,480			

articles or literature reviews is 19. In comparison, in 1981 the average for SCI^7 was 20. For the 1981 SSCI,8 the average was 19.

Clearly, while books predominate, journals are an increasingly important medium through which arts and humanities scholarship is communicated. Thus, it is useful to examine which A & HCI journals are the most important. This was done in a preliminary way in the preface to the 1981 A & HCI, which was reprinted in CC last week. Now I'd like to present a more detailed and comprehensive report on what the A & HCI group cites, and vice versa.

In order to do this, we'll treat the journals covered in the 1981 A&HCI as if they were a single "General Journal of the Arts & Humanities." Since we do not have the space to provide data on all

1,185 journals, readers should refer to the A&HCI Guide & Journal Lists⁹ for further details.

The A&HCI journals published 101,593 source items in 1981, and they cited or gave out about 484,000 references. Only about five percent of these-24,000-were references to the same group of A&HCI journals. This reflects the well-known fact that arts and humanities journals cite a wide spectrum of non-journal literature—books. poems, diaries, biographies, and the like. For example, when we identified the most-cited works of the 100 mostcited A&HCI authors for 1977-1978, all were books. 10 In a future study, we'll identify the most-cited works in A&HCI-books, poems, plays, paintings, articles, etc. This will give us a better understanding of the "literature" of the arts and humanities.

Articles published in A&HCI journals received about 41,000 citations from all journals covered in the combined ISI data bases for 1981. These include A&HCI, SSCI, and SCI. Only 63 percent of these were citations from A&HCI journals. The remaining one-third came from a variety of hard and soft science journals.

The ten most-cited A&HCI journals account for 12 percent of the 41,000 citations from all journals. They are shown in Table 2. In comparison, the ten most-cited SCI journals in 1981 accounted for 14 percent of total citations. The top ten SSCI journals accounted for 15 percent.

In Table 3, the 50 journals that were most cited by A&HCI journals in 1981 are listed. They are ranked by the number of citations received from the A&HCI group. These 50 journals received about 11,000 citations, or just two percent of the 484,000 references cited by A&HCI journals in 1981, because most of the A&HCI references are to books and other non-journal items. It is interesting to note, for example, that the A&HCI group gave more citations (12,400) to newspapers, collected works, performances, and letters

Table 2: The ten A&HCI 10 journals most cited in the 1981 A&HCI, SCIO, and SSCIO, and the number of citations they received.

Journal	Number of Citations
Language	724
Journal of Philosophy	640
American Antiquity	603
PMLA—Publications of the	
Modern Language Association	495
Linguistic Inquiry	465
Past & Present	435
Philosophical Review	435
American Historical Review	420
Economic History Review	398
Journal of Economic History	348

than to the 50 journals listed in Table 3. However, if we consider only those A&HCI citations to other A&HCI journals, the 50 journals listed here account for 43 percent. In comparison, in 1981, the 50 most-cited SCI journals accounted for 32 percent of SCI citations. For SSCI, the top 50 journals accounted for 40 percent of 1981 SSCI citations.

History is the most heavily represented field in Table 3, with ten journals on the list. There are eight philosophy journals and five language and linguistics journals. Art and classics each have four journals, while archaeology, interdisciplinary sciences, literature, and religion each have three. Two sociology journals appear in Table 3. Chemistry, anthropology, general arts and humanities, interdisciplinary social sciences, and literary review each account for one journal.

Forty-two of the 50 most-cited journals are members of the A&HCI group. The eight non-A&HCI journals in Table 3 are: American Anthropologist, American Journal of Sociology, American Sociological Review, Annales—Economies Sociétés Civilisations, Liebigs Annalen der Chemie, Nature, Science, and Scientific American.

The last four of these journals are from the natural sciences. It is significant that *Science* ranked twelfth among the journals most cited by the A&HCI group. Of the 260 citations it received from A&HCI journals, 76 were given by

Table 3: The 50 journals most cited by A&HCI im journals in 1981. An asterisk indicates an A&HCI journal. A = total citations received from A&HCI group. B = total citations received. C=self-citations. D=percent of total citations which are A&HCI citations (A/B). E=percent of total citations which are self-citations (self-cited rate, C/B). F=percent of A&HCI citations which are self-citations (C/A). G=impact factor. H=immediacy index. I=total 1981 source items.

Journal	A	В	c	D	E	F	G	н	ī
*PMLA—Publ. Mod. Lang.	490	495	23	99.0	4.6	4.7	.61	.55	23
Assoc.	770	773	2.5	77.0	7.0	4.7	.01	.55	23
*J. Philos.	440	640	29	68.8	4.5	6.6	.72	.24	41
*Linguist. Inq.	422	465	175	90.8	37.6	41.5	1.51	.29	45
*Language	420	724	94	58.0	13.0	22.4	1.34	.22	23
*World Lit. Today	336	337	329	99.7	97.6	97.9	.16	.02	48
*Past Present	323	435	41	74.3	9.4	12.7	.61	.10	30
*Amer. Hist. Rev.	319	420	16	75.9	3.8	5.0	1.02	.22	18
*Phil. Rev.	316	435	20	72.6	4.6	6.3	.97	0	14
*Burlington Mag.	295	299	77	98.7	25.8	26.1	.18	.10	93
*Art Bull.	282	287	46	98.3	16.0	16.3	.46	.05	39
*Amer. Antiq.	261	603	188	43.3	31.2	72.0	.80	.07	76
Science	260	64,355	_	.4	_	_	6.24	1.33	1077
*Econ. Hist. Rev.	256	398	79	64.3	19.8	30.9	.37	.10	30
*Vop. Istor. SSSR	243	262	132	92.7	50.3	54.3	.15	.07	148
'Vop. Filos. SSSR	238	323	175	73.7	54.1	73.5	.27	.10	163
*Speculum-J. Medieval Stud.	223	250	10	89.2	4.0	4.4	.39	.05	22
"William Mary Quart.	223	268	83	83.2	30.9	37.2	.54	.21	24
Amer. Anthropol.	222	1194	_	18.6	_	_	.92	.13	46
*Esprit	219	245	160	89.4	65.3	73.1	.15	.25	222
*Hesperia	217	222	122	97.7	55.0	56.2	.81	0	14
J. Bibl. Lit.	210	213	11	98.6	5.2	5.2	.22	0	16
*Mind	198	323	23	61.3	7.1	11.6	.33	0	41
*Poetique	194	194	21	100.0	10.8	10.8	.29	0	36
*J. Econ. Hist.	192	348	60	55.2	17.2	31.3	.39	.14	44
*Amer. J. Archaeol.	190	199	89	95.5	44.7	46.8	.29	.13	48
*Class. Quart.	187	200	31	93.5	15.5	16.6	.09	.08	53
J. Hist. Idea.	179	229	15	78.2	6.6	8.4	.23	.08	40
*Leonardo	179	189	171	94.7	90.4	95.5	.53	.40	78
J. Roman Stud.	175	179	47	97.8	26.3	26.9	.74	0	11
'MLN-Mod. Lang. Notes	175	175	13	100.0	7.4	7.4	.05	.02	57
'New Lit. Hist.	174	186	5	93.5	2.7	2.9	.34	0	25
Deut. Z. Phil.	171	180	154	95.0	85.6	90.1	.43	.12	81
J. Hellenic Stud.	168	175	10	96.0	5.7	6.0	.30	0	19
*Istoriya SSSR	164	167	127	98.2	76.0	77.4	.23	.07	105
*Historia	162	167	9	97.0	5.4	5.6	.03	.01	150
ELH—Engl. Lit. Hist.	159	159	12	100.0	7.5	7.5	.22	.02	45
J. Warburg Courtauld Inst.	159	160	0	99.4	0	0	.13	_	1.402
Nature		99,062	_	.2		_	7.19	1.80	1402
Ann.—Econ. Soc. Civil.	153	242 160		63.2			.33	.08	40
*Hermes—Z. Klass. Philol. *New Test. Stud.	152 150	150	18 39	95.0 100.0	11.3 26.0	11.8	.08	.02	44
Sci. Amer.	150	2915	39	5.1	20.0	26.0	.17 2.74	.02	45 111
Amer. Phil. Quart.	149	200	20	74.5	10.0	13.4	.35	.22	41
Liebigs Ann. Chem.	149	5469	_	2.7	-	-	.91	.41	234
*Crit. Inq.	148	157	35	94.3	22.3	23.6	.38	.06	234 47
*Historia—Z. Alte Geschichte	147	154	35 17	95.5	11.0	23.0 11.6	.38	.00	14
'Vetus Testamentum	145	146	46	99.3	31.5	31.7	.42	0	14 49
Amer. J. Sociol.	145	2707	40	99.3 5.3	21.3		1.67	.39	61
Amer. Sociol. Rev.	139	4222	_	3.3	_	_	3.19	.33	51
*Phil. Stud.	139	168	23	3.3 82.7	13.7	16.5	.22	.05	60
i nii. stuu.	139	100	23	02.7	13.7	10.5	. 44	.05	00

archaeology journals and 70 by history journals. Nature received 159 citations from A&HCI journals—53 of which were from history journals and 49 from philosophy journals. Scientific American followed the same pattern—39 of its 150 A&HCI citations came from philosophy journals and 34 from history journals. Liebigs Annalen der Chemie received 149 A&HCI citations, of which 85 were from history journals.

Anthropology might be thought to be a category in A&HCI that needs full coverage because American Anthropologist ranked eighteenth in Table 3. However, only 19 percent of its citations were from the A&HCI group. Also, the appearance of two leading sociology journals on the list—American Journal of Sociology and American Sociological Review—is interesting. But only between three and five percent of their citations came from A&HCI journals (column D). This is one of the criteria that determine whether or not a journal or field is fully covered in our data bases.

Three Soviet journals are in Table 3: Voprosy Filosofii, Voprosy Istorii, and Istoriya. Compared with other philosophy journals in Table 3, Voprosy Filosofii has a higher self-cited rate (column E). That is, of the 323 citations it received in 1981, 175 or 54 percent were from articles published in Voprosy Filosofii. In contrast, the most-cited philosophy journal, Journal of Philosophy, had a self-cited rate of five percent. But Deutsche Zeitschrift für Philosophie had the highest self-cited rate, 86 percent, of all philosophy journals listed. The two Soviet history journals also had high self-cited rates: Voprosy Istorii at 50 percent and *Istoriya* at 76 percent. The two most-cited history journals in Table 3. Past & Present and American Historical Review, had self-cited rates of nine and four percent, respectively.

Linguistic Inquiry had an impact factor of 1.5, the highest of the A&HCI journals on the list (column G). Impact tells you how many times the average article in a journal has been cited during a

particular year. It is calculated in this study by dividing the number of source articles a journal published in 1979 and 1980 into the number of citations they received in 1981. Language, another linguistics journal, ranked second with an impact of 1.3. American Historical and Philosophical Review follow, each with an impact of 1.0. Except for Philosophical Review, these journals also ranked high on the immediacy index—the average number of citations received by articles published in 1981 (column H). The immediacy index for Linguistic Inquiry was .3. Only two journals in Table 3 ranked higher: PMLA at .6 and Leonardo at .4. American Historical Review Language each have an immediacy of .2.

Of course, the way we calculate impact for the natural and social sciences may not correspond to the actual peak citation period for A&HCI journals. Higher impact factors might be obtained by dividing the number of source articles published in, say, 1976 and 1977 into the number of citations they received in 1981. But we have not yet determined the peak citation periods for A&HCI journals. Although our data go back to 1976, we may need a longer "track record" to decide which two-year period would yield the highest impacts. The problem is complicated because peak citation periods are likely to be different for various fields—linguistics versus literary criticism, for example. I'll discuss how impact factors are affected by using different time periods as a base in a future essay.

Table 4 lists the 50 journals which most frequently cited the A&HCI journals in 1981, in order of the number of references to the A&HCI group. These journals cited A&HCI journals 8,500 times, accounting for 21 percent of all citations received by the A&HCI group that year. History is again the most heavily represented field on the list, with 14 journals. Art, language and linguistics, and philosophy follow with seven jour-

Table 4: The 50 journals which most frequently cited A&HCI ™ journals in 1981. An asterisk indicates an A&HCI journal. A=total citations to A&HCI group. B=total citations given out. C=self-citations. D=percent of total citations which are A&HCI citations (A/B). E=percent of total citations which are self-citations (self-citations (self-citations). F=percent of A&HCI citations which are self-citations (C/A). G=impact factor. H=immediacy index. I=total 1981 source items.

Journal	A	В	c	D	E	F	G	н	1
AND LATES TO AL.	247	2172	329	16.0	15 1	04.6	14	02	40
World Lit. Today	347	2173		16.0	15.1	94.8	.16 .29	.02	48
*Amer. J. Archaeol.	261 247	1845 2264	89 188	14.1 10.9	4.8 8.3	34.1 76.1	.80	.13 .07	48 76
*Amer. Antiq.	247	1338	100	18.5	6.5	70.1	.38	.13	85
Synthese *Art. Mag.	238	4677	82	5.1	17.5	34.5	.11	.06	184
*Linguist. Inq.	234	799	175	29.3	21.9	74.8	1.51	.29	45
*Language	230	1888	94	12.2	5.0	40.9	1.34	.22	23
*Burlington Mag.	228	2700	77	8.4	2.9	33.8	.18	.10	93
*Amer. Hist. Rev.	213	2877	16	7.4	.5	7.5	1.02	.22	18
*Istoriya SSSR	211	3970	127	5.3	3.2	60.2	.23	.07	105
*Vop. Filos. SSSR	203	2760	175	7.4	6.3	86.2	.27	.10	163
*Vop. Istor. SSSR	202	5694	132	3.5	2.3	65.3	.15	.07	148
Adv. Archaeol. Meth. Th.	196	1433	132	13.7	2.3		1.44	.25	8
*Linguist. Anal.	196	602	65	32.6	10.8	33.2	.84	.17	30
*Lingua	192	1402	43	13.7	3.1	22.4	.40	.06	32
*Leonardo	189	918	171	20.6	18.6	90.5	.53	.40	78
*Class. Quart.	185	1527	31	12.1	2.0	16.8	.09	.08	53
*Deut. Z. Phil.	181	2246	154	8.1	6.9	85.1	.43	.12	81
*ApolloMag. Arts	177	2245	53	7.9	2.4	29.9	.07	.07	102
*Esprit	176	1311	160	13.4	12.2	90.9	.15	.25	222
*Rev. Art	175	1119	20	15.6	1.8	11.4	.10	0	16
*Hist. J.	168	1941	27	8.7	1.4	16.1	.40	.04	50
*William Mary Quart.	168	1389	83	12.1	6.0	49.4	.54	.21	24
*Art Bull.	157	1805	46	8.7	2.5	29.3	.46	.05	39
*Econ. Hist. Rev.	155	1555	79	10.0	5.1	51.0	.37	.10	30
Phil. Stud.	153	585	23	26.2	3.9	15.0	.22	.05	60
*Hesperia	152	489	122	31.1	24.9	80.3	.81	0	14
*J. Amer. Hist.	152	1959	7	7.8	.4	4.6	.78	.05	22
*Romance Philol.	152	1669	10	9.1	.6	6.6	.02	0	28
Curr. Anthropol.	150	3802	_	3.9	-	_	.84	.25	8
*Gesta-Int, Cen, Med. Art	148	1083	10	13,7	.9	6.8	.03	0	31
*Past Present	148	1822	41	8.1	2.3	27.7	.61	.10	30
*Speculum-J. Medieval Stud.	146	1486	10	9.8	.7	6.8	.39	.05	22
*ELH-Engl. Lit. Hist.	145	1254	12	11.6	1.0	8.3	.22	.02	45
*Crit. Inq.	144	1055	35	13.6	3.3	24.3	.38	.06	47
*PMLA-Publ. Mod. Lang.	138	906	23	15.2	2.5	16.7	.61	.55	23
Assoc.									
*J. Interdiscipl. Hist.	135	1537	6	8.8	.4	4.4	.04	0	30
Amer. Phil. Quart.	130	644	20	20.2	3.1	15.4	.35	.22	41
*J. Mod. Hist.	129	1618	11	8.0	.7	8.5	.60	.06	18
*Stud. Philol.	128	1012	1	12.6	.1	.8	.02	0	32
*Amer Arch.	127	436	101	29.1	23.2	79.5	.58	.05	21
*Comp. Stud. Soc. Hist.	123	1911	12	6.4	.6	9.8	.54	.12	26
J. Philos.	120	544	29	22.1	5.3	24.2	.72	.24	41
*New Test. Stud.	117	1115	39	10.5	3.4	33.3	.17	.02	45
J. Econ. Hist.	116	1309	60	8.9	4.6	51.7	.39	.14	44
*Nous	115	398	24	28.9	6.0	20.9	.79	.18	22
*Vetus Testamentum	114	1002	46	11.4	4.2	40.4	.14	0	49
Annu. Rev. Anthropol.	113	2198	_	5.1	_		1.14	.07	15
*Gesch. Ges.	113	1699	0	6.7	0	0		0	20
*Pap. Lang. Lit.	113	659	0	17.1	0	0	.01	0	30

nals each. Five archaeology journals and three literature journals are included in Table 4. Anthropology and religion each have two journals, and classics, literary review, and general arts and humanities each have one journal.

Four journals in Table 4 are not A&HCI journals: Advances in Archaeological Method and Theory; Annual Review of Anthropology; Current Anthropology; and Synthese, a philosophy journal. These journals are fully covered in SSCI. They illustrate the difficulty of arbitrarily separating the humanities from the social sciences. But this is partly resolved by our selective coverage of these journals. However, the data would seem to indicate we should have covered Synthese, since philosophy is supposed to be fully covered. This will be rectified.

For the 46 A&HCI journals in Table 4, an average of only ten percent of their references cited A&HCI journals. But nearly 40 percent of these references to the A&HCI group are self-citations. That is, the average A&HCI journal

cites other arts and humanities journals relatively infrequently—but when it does, it tends to cite itself.

When Tables 3 and 4 are compared, we see that 29 journals appear on both tables. Five journals are listed in the top ten on both tables: American Historical Review; Burlington Magazine, an art journal: Language: Linguistic Inquiry: and World Literature Today. These five journals rank highest of all 1,185 A&HCI journals in terms of the number of citations they received from A&HCI journals and the number of their references to the A&HCI group. Three of these journals also rank among the top ten in impact and immediacy: American Historical Review, Language, and Linguistic Inquiry.

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