

System Dynamics: Publication Metrics (2000-2005)

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Abstract

System Dynamics (SD) would like to increase its influence and promote its professional approach to understanding and solving significant problems. This paper captures a snapshot of SD research topics, and publications 2000-2005 as a metric of the scope of SD domains and publication venues. The questions addressed by this paper follow: What are the significant topics? What may be the emerging topics? Where do SD authors frequently publish? To this end, 35,920,686 documents were searched. Of the total, 935 met the search criteria. After review and analysis of the 935 documents, only 302 qualified as relevant SD material for further analysis.

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1 Introduction

The International System Dynamics Society (SDS) members and affiliates frequently express intentions to increase its influence and promote its scientific approach to understanding and solving problems. SD publications represent the topic domains being researched, modeled and simulated by system dynamicists (SDers) where influence may be applied. This paper captures a snapshot of the SD research topics, and publications as a function of time (2000-2005) to “measure” SD’s domain of influence in the beginning of the 21st century.

2 Statement of the Problem

Published work represents SD’s domain of influence. The questions addressed by this paper to measure SD’s domain of influence in the beginning of the 21st century are as follow: What are the significant topics? Where do SDers publish? What are the emerging SD publication trends?

3 Literature Review

The literature review consisted of reading the abstracts, articles (in some cases) and references of publications that met specific search criteria as described in Research Method and Design below. To this end, 35,920,686 documents were searched (Web of Science 2005). Of that total, 935 met the database search criteria “Query results” and are referred to as Set 1. After reviewing the 935 Query results, only 302 qualified as “SD relevant” material for further analysis in this paper and are referred to as Set 2.

4 Research Method and Design

The research method used a large database of science and technology journals, Web of Science (2005), as the source of material. The Web of Science provides access to multidisciplinary information from approximately 8,700 of the most prestigious, high impact research journals in the world.

A query was designed to extract articles of interest from the database. The query method retrieved articles about system dynamics, Set 1. The research query that produced the Query results (Set 1) follows:

“system dynamics AND (research OR simulation OR model*) and PY=(2000-2005)”.

The query was robust enough assuming that any usage of “system dynamics” would be accompanied by usage of “research” or “simulation” or “model”. The research method and design did not include experimentation with various query structures to optimize the results. The query presented above was assumed robust enough to yield results adequate for this study.

Specific SD relevant articles were culled from the results of the database Set 1 into Set 2. The culling was largely a manual process using knowledge of SD to produce the SD relevant articles, Set 2. More specifically, the manual approach proceeded as follows: 1. Was “system dynamics” used as a key word? 2. Was “system dynamics” used together as adjective and noun, or separated by other words? 3. Were casual loop, or stock and

flow diagrams evident? 4. Were there references to SD authors, e.g., Forrester, Sterman?
5. Were tools such as Vensim or Stella mentioned?

With the refined set of SD relevant articles (Set 2), the design method proceeded to identify the significant topics by frequency of occurrence. The topics were categorized by the Web of Science (2005).

The search was further constrained to English only articles, which included the vast majority of the database. The citation databases included the Science Citation Index Expanded, the Social Science Citation Index and the Arts and Humanities Citation Index.

As a spot check of the validity of the data collected in Feb 2006, two limited verification tests were made with regard to the System Dynamics Review and Energy Policy. In Jun 2007, the Wiley InterScience database containing the System Dynamics Review was queried for articles published in 2002. The articles were compared to the references in this paper. The Wiley InterScience query produced 18 articles out of 34 items that included the likes of Forrester Citations, Notes and Editorials. Of these articles, 16 matched the references in this paper, including Special Edition (Volume 18 No 2) articles.

Similarly, the ScienceDirect database was queried for system dynamics articles published in Energy Policy 2000-2006. There were 4 articles out of 21 items found in Energy Policy that were relevant. Of these articles, 2 matched the references in this paper.

There was not further effort to attempt to explain the discrepancies noted, other than to conclude that the robustness of the queries used (automated and manual) and the database update policy need further investigation.

5 Data Analysis

The data required some cleansing, particularly with regard to author names where last names may have first name initials that differ. For example, one initial appears in one instance and two in another. Another data analysis issue was the fact that the Web of Science (2005) database is a living database, updated monthly with an undetermined delay between date of publication and entry into the database repository. There was the experience that new articles within the time span of interest were inserted into the database during the course of analysis for this paper, changing the data analysis results. To counter this impact, dataset Set 1 was baselined (Feb 2006) offline.

Once the SD relevant publications (Set 1) were baselined, detailed analysis of topics was concentrated on the first 50 categories of Set 2 and compared to Set 1.

A country count of the Set 1 data was also tallied to show frequency of occurrence. A year count showed the publication trend. A source count identified the preferred publishers.

Lastly, the SD relevant Set 2 articles were captured as bibliographic references and included in this document for further examination by journal, author(s), topics and date of publication.

6 Major Findings and Significance

Each major finding and their significance is presented as a header topic followed by the statement of the finding and its significance.

6.1 System Dynamic and the Ocean of Articles

SD is a very small subject among the millions of Web of Science (2005) articles cataloged from 2000-2005, Table 1. There were 35,920,686 documents that met the date limits of interest. The data query designed for the extraction of system dynamics articles related to research, simulation and models, produced 935 matches. From the 935 records, 302 were selected for further analysis.

	# Records	Percentage of Total Data Set
Total Data Set	35,985,691	100.0000%
Query Match (Set 1)	936	0.0026%
SD Relevant (Set 2)	302	0.0008%

Table 1 Comparative Count of SD relevant Articles and Query results

It is significant that SD relevant (Set 2) publications represent approximately one-third of the system dynamics Query results (Set 1) data in the 2003-2005 date range. This represents an opportunity for SDers to expand their influence into domains where at least the idea of “system dynamics” currently exists. Whether the methodology of SD and its tools are relevant needs further investigation. For example, it is unlikely that SD would support astronomers using analytic models performing system dynamics. In general, there appears to be a large SD opportunity to expand into additional domains, e.g., construction and building technology.

6.2 System Dynamics Publication Trend 2000-2005

The trend over the period of study for the articles that met the Query results (Set 1) criteria and the SD relevant (Set 2) records was similar, Table 2 and Figure 1.

Year	SD Data - Set 2	Query Data - Set 1
2000	43	128
2001	40	130
2002	41	137
2003	51	168
2004	56	178
2005	71	194

Table 2 Trend Data for 2000-2005 – Query results Set 1 and SD relevant Set 2

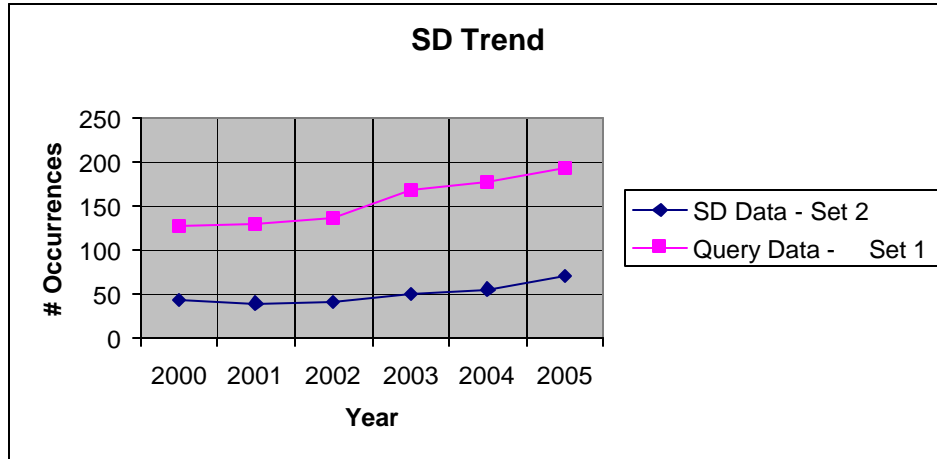


Figure 1 Graph of Publication Trends – Query results (Set 1) and SD relevant (Set 2)

It is significant that SD is keeping pace relative to the trend overall occurrence of publications using “system dynamics” in its vocabulary. It would be discouraging if the usage of “system dynamics” in publications at large (Set 1) were out-pacing usage in Set 2, possibly indicating a shrinking field of inquiry.

6.3 Boundaries of the Subject Category

The subject data is grouped by the first 25 and next 26-50 categories as defined by the Web of Science. One document may be registered in more than one subject category by the Web of Science.

To better understand the boundaries, the Query results (Set 1) were compared, side-by-side, to the SD relevant (Set 2) data, Tables 3 and 4, to determine uniqueness, and overlap. In Table 3 and 4, “All SD Topics” (Set 1), the shaded cells represent unique topics, the plain cells represent topics that overlap with Set 2 topics 1-25. Table 3 and 4 Set 1 italicized cells represent topics that overlap with Set 2 topics 26-50.

Similarly, Figure 2 shows that as the rank order changes from 1- 50 the SD relevant (Set 2) topics have fewer number of occurrences than the Query results Set 1 topics.

The majority of topics, 16, in the first 25 (both SD relevant (Set 2) and Query results (Set 1) are the same. This represents an area of common ground where SD may expand its influence. For example, the topics are provided below with their relative rankings, i.e., Topic (Set 2 rank, Set1 rank): 1. Management (1,1); 2. Engineering, Electrical & Electronic (20,2); 3. Automation & Control Systems (22,4); 4. Social Sciences, Mathematical Methods (2,5); 5. Operations Research & Management Science (3,6); 6. Computer Science, Interdisciplinary Applications (10,9); 7. Ecology (12,10); 8. Engineering, Manufacturing; 9. Environmental Science (9,12); 10. Computer Science, Software Engineering (6,16); 11. Computer Science, Artificial Science (25,17); 12. Engineering, Industrial (7,19); 13. Computer Science, Theory & Methods (21,20); 14. Water Resources (16,23); 15. Engineering, Multidisciplinary (17,24); 16. Materials Science, Multidisciplinary (24,25).

There are 5 topics in the SD relevant (Set 2) that overlap with Query results (Set 1) rankings 26-50, respectively (plain cells in Table 3): 1. Economics (13,28); 2. Computer

Science, Information Systems (14,32); 3. Business (11,34); 4. Social Sciences, Interdisciplinary (18,39); and 5. Construction & Building Technology (19,46). These are significant areas where SD appears to be taking the lead in influence based on publications by SDers.

There are 4 topics in the SD relevant (Set 2) that are unique, do not overlap with any of the Query results (Set 2) first 50: 1. Multidisciplinary (5); 2. Software Engineering (8); 3. Information Systems (15), and 4. Information Science & Library Science (23). These are significant categories for expansion of SD influence.

Possible emerging SD topics, fall into two groups (italic cells in Table 3). Group one is the first 25 Query Results (Set 1) topics that overlap within the first 50 SD relevant (Set 2): Engineering, Mechanical (39,3); Engineering, Civil (27,11); and Engineering, Chemical (38,21). Group two is 26-50 SD relevant (Set 2) topics that overlap with the 26-50 Query results (Set 1): Energy & Fuels (26,35); Biology (35, 38); Transportation Science & Technology (34,41); Marine & Freshwater Biology (30,42); and Computer Science, Cybernetics (36,49).

Unique Query Results (Set 1) topics in the first 25 rankings that do not overlap with the first 50 SD relevant (Set 2) are as follow (shaded cells in Table 3): 1. Mechanics (7); 2. Mathematics, Applied (8); 3. Physics, Mathematical (14); 4. Instrumentations & Instrumentation (15); 5. Physics, Multidisciplinary (18); and 6. Physics, Atomic, Molecular & Chemical (22). These are significant as not likely to be candidates for SD influence.

6.4 Country of Origin

The majority of Query results Set 1 articles originate in the US. The combined reporting data clearly shows the majority of system dynamics documents originate in western society, see Table 5.

Country/Territory	Record Co	% of 936
USA	360	38.50%
England	89	9.50%
Germany	76	8.10%
Canada	52	5.60%
Italy	44	4.70%
Taiwan	43	4.60%
Peoples R China	40	4.30%
Netherlands	33	3.50%
South Korea	32	3.40%
France	27	2.90%
Australia	26	2.80%
Japan	24	2.60%
Spain	21	2.20%
Poland	19	2.00%
Switzerland	17	1.80%
Greece	16	1.70%
India	16	1.70%
Scotland	14	1.50%
Russia	13	1.40%
Turkey	13	1.40%
Belgium	12	1.30%
Norway	12	1.30%
Austria	11	1.20%
Mexico	10	1.10%
Singapore	10	1.10%

Table 5 Topics 1-50 – Query results Set 1 Country of Origin

This is significant as much more work needs to be done to introduce SD to academics and practitioners, in western and non-western societies.

Topic Rank Order	Specific SD Topics	# Topics 2000-2005	% of 302 records	All SD Topics	# Topics 2000-2005	% of 935 records
1	Management	119	39.40%	Management	125	13.40%
2	Social Sciences, Mathematical Methods	68	22.52%	Engineering, Electrical & Electronic	114	12.20%
3	Operations Research & Management Science	48	15.89%	<i>Engineering, Mechanical</i>	84	9.00%
4	Environmental Sciences	22	7.28%	Automation & Control Systems	72	7.70%
5	Multidisciplinary	22	7.28%	Social Sciences, Mathematical Methods	69	7.40%
6	Computer Science, Software Engineering	20	6.62%	Operations Research & Management Science	64	6.80%
7	Engineering, Industrial	21	6.95%	Mechanics	62	6.60%
8	Software Engineering	20	6.62%	Mathematics, Applied	49	5.20%
9	Engineering, Manufacturing	18	5.96%	Computer Science, Interdisciplinary Applications	48	5.10%
10	Computer Science, Interdisciplinary Applications	17	5.63%	Ecology	43	4.60%
11	Business	12	3.97%	<i>Engineering, Civil</i>	36	3.90%
12	Ecology	11	3.64%	Engineering, Manufacturing	36	3.90%
13	Economics	11	3.64%	Environmental Sciences	36	3.90%
14	Computer Science, Information Systems	10	3.31%	Physics, Mathematical	32	3.40%
15	Information Systems	10	3.31%	Instruments & Instrumentation	31	3.30%
16	Water Resources	10	3.31%	Computer Science, Software Engineering	29	3.10%
17	Engineering, Multidisciplinary	9	2.98%	Computer Science, Artificial Intelligence	25	2.70%
18	Social Sciences, Interdisciplinary	9	2.98%	Physics, Multidisciplinary	24	2.60%
19	Construction & Building Technology	7	2.32%	Engineering, Industrial	23	2.50%
20	Engineering, Electrical & Electronic	7	2.32%	Computer Science, Theory & Methods	20	2.10%
21	Computer Science, Theory & Methods	6	1.99%	<i>Engineering, Chemical</i>	20	2.10%
22	Automation & Control Systems	5	1.66%	Physics, Atomic, Molecular & Chemical	20	2.10%
23	Information Science & Library Science	5	1.66%	Water Resources	20	2.10%
24	Materials Science, Multidisciplinary	5	1.66%	Engineering, Multidisciplinary	19	2.00%
25	Computer Science, Artificial Intelligence	4	1.32%	Materials Science, Multidisciplinary	19	2.00%

Table 3 Topics 1-25 - SD relevant Set 2 and Query results Set 1 (Shaded cells are Set 1 unique & Italics overlap Set 2)

Topic Rank Order	Specific SD Topics	# Topics 2000-2005	All SD Topics	# Topics 2000-2005
26	Energy & Fuels	3	Acoustics	18
27	Engineering, Civil	3	Multidisciplinary Sciences	17
28	Engineering, Environmental	3	Economics	15
29	Geosciences, Multidisciplinary	3	Engineering, Aerospace	15
30	Marine & Freshwater Biology	3	Physics, Fluids & Plasmas	14
31	Meteorology & Atmospheric Sciences	3	Computer Science, Hardware & Arch.	13
32	Psychology, Multidisciplinary	3	Computer Science, Information System	13
33	Transportation	3	Mathematics, Interdisciplinary Apps.	13
34	Transportation Science & Technology	3	Business	12
35	Biology	2	<i>Energy & Fuels</i>	12
36	Computer Science, Cybernetics	2	<i>Geosciences, Multidisciplinary</i>	12
37	Education, Scientific Disciplines	2	Optics	12
38	Engineering, Chemical	2	<i>Biology</i>	11
39	Engineering, Mechanical	2	Social Sciences, Interdisciplinary	11
40	Environmental Studies	2	Telecommunications	11
41	Forestry	2	<i>Transportation Science & Technology</i>	11
42	Immunology	2	<i>Marine & Freshwater Biology</i>	10
43	Infectious Diseases	2	Physics, Applied	10
44	Limnology	2	Physics, Condensed Matter	9
45	Planning And Development	2	Robotics	9
46	Psychology, Experimental	2	Construction & Building Technology	8
47	Public Administration	2	Engineering, Biomedical	8
48	Public, Environmental & Occu. Health	2	Oceanography	8
49	Social Work	2	<i>Computer Science, Cybernetics</i>	7
50	Agriculture, Multidisciplinary	1	Geochemistry & Geophysics	7

Table 4 Topics 26-50 – SD relevant Set 2 and Query results Set 1 (Shaded cells are Set 1 unique & Italics overlap Set 2)

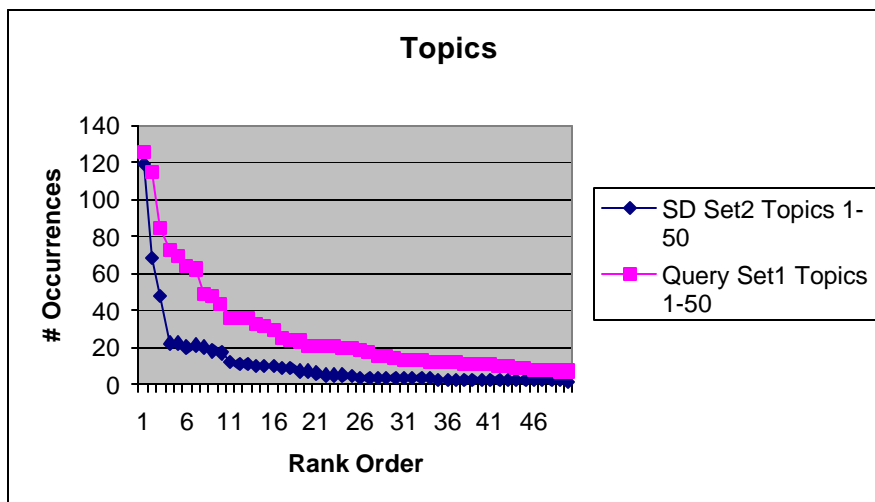


Figure 2 Rate of change of Topic Occurrence as a function of Rank Order 1-50

6.5 SD Publishers of Choice

Figure 3 shows that most of the publishers publish approximately 1 SD relevant article every five years. Three significant SD relevant Set 2 publishers are System Dynamics Review (~12/year)¹, Journal of Operational Research Society (~4/year), and European Journal of Operational Research (~2/ year). For Set 2, there are 141 different publishers, see Table 6, from 2000-2005. The first 25 publications are probably familiar to the SD community, e.g., Systems Dynamics Review and Journal of the Operational Research Society. Perusal of Table 6 will show that there are quite a variety of publications in rather unique domains, e.g., Annals of Allergy, Asthma & Immunology to Zoo Biology.

This shows a significantly large variety of publishers available to SD and the scope of their domains.

7 Conclusions

In the 2000-2005 timeframe, system dynamics articles represent a very small fraction of publications among the approximately 8,700 prestigious, high-impact research journals contained in the Web of Science (2005) database. Of the small fraction of articles containing “system dynamics”, an even smaller portion is SD relevant.

The scope of the topics is narrow as the SD relevant topics focus on Management, Social Sciences – Mathematical Methods, Operations Research & Management Science, and Environmental Sciences. There are many emerging topics for SD relevant publications such as Engineering, Mechanical; Engineering, Civil; Engineering, Chemical; Energy & Fuels; Biology; Transportation Science & Technology; Marine & Freshwater Biology; and Computer Science, Cybernetics.

As regards country of article origin, the majority of system dynamics articles originate in western society, with 39% from the USA and 10% from the UK. There is publication representation from around the world, but there is plenty of room for others to assume a larger authorship role.

The publishers of choice by SD authors are dominated by a familiar few such as the System Dynamics Review, Journal of the Operational Research Society, and European Journal of Operations Research. However, there is a publisher for almost any topic of interest, e.g., Annals of Allergy, Asthma & Immunology to Zoo Biology.

There are some policy implications for SD to consider: 1. reaching out to a larger audience by publication in some of the currently less frequently used journals; 2. encouraging SD special interest groups to publish in journals germane to them, and 3. providing support from SD leadership to leverage articles published in our proceedings to achieve publication in relevant journals.

This paper starts a process to track the scope and breadth of the SD domain of influence. More work needs to be done to better capture and analyze data about the SD sphere of influence. Work needs to be done to determine the robustness of the search query used herein. Having a set point for the date range of the data repository is important to control

¹ Excluding items like Special Edition topics (e.g., Donella Meadows), Forrester Award Citations, Announcements, Book Reviews, and Notes.

new data entries. Tracking publication date and the electronic availability date is also important.

In summary, this paper is a start at identifying and tracking SD's sphere of influence using data collected in Feb 2006. There is much more to be done.

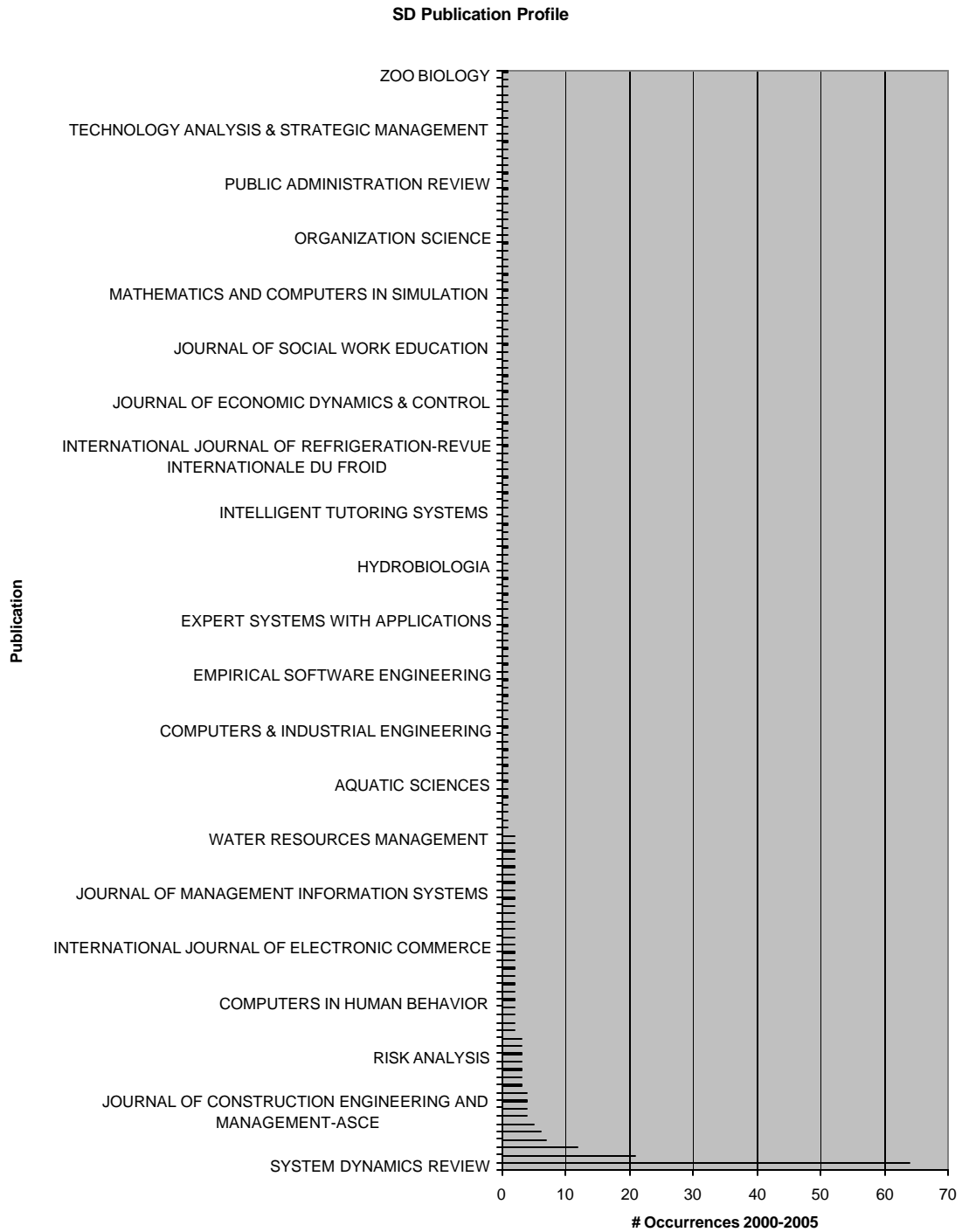


Figure 3 Publications that Frequently Publish SD Articles, 2000-2005

Count	Publication	#
1	SYSTEM DYNAMICS REVIEW	64
2	JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY	21
3	EUROPEAN JOURNAL OF OPERATIONAL RESEARCH	12
4	SYSTEMS RESEARCH AND BEHAVIORAL SCIENCE	7
5	ECOLOGICAL MODELLING	6
6	INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS	5
7	ECOLOGICAL ECONOMICS	4
8	JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT-ASCE	4
9	JOURNAL OF ENVIRONMENTAL MANAGEMENT	4
10	JOURNAL OF SYSTEMS AND SOFTWARE	4
11	COMPUTATIONAL SCIENCE - ICCS 2003, PT II, PROCEEDINGS	3
12	INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH	3
13	JOURNAL OF ECONOMIC ISSUES	3
14	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	3
15	RISK ANALYSIS	3
16	SIMULATION MODELLING PRACTICE AND THEORY	3
17	SYSTEMIC PRACTICE AND ACTION RESEARCH	3
18	AUTOMATION IN CONSTRUCTION	2
19	CALIFORNIA MANAGEMENT REVIEW	2
20	CANADIAN JOURNAL OF CIVIL ENGINEERING	2
21	COMPUTER AIDED SYSTEMS THEORY - EUROCAST 2003	2
22	COMPUTERS IN HUMAN BEHAVIOR	2
23	CONCURRENT ENGINEERING-RESEARCH AND APPLICATIONS	2
24	DECISION SUPPORT SYSTEMS	2
25	ENERGY POLICY	2
26	HYDROLOGICAL PROCESSES	2
27	IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT	2
28	INFORMATION AND SOFTWARE TECHNOLOGY	2
29	INTERNATIONAL JOURNAL OF ELECTRONIC COMMERCE	2
30	INTERNATIONAL JOURNAL OF OPERATIONS & PRODUCTION MANAGEMENT	2
31	INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE	2
32	JOURNAL OF ADVANCED TRANSPORTATION	2
33	JOURNAL OF COMPUTING IN CIVIL ENGINEERING	2
34	JOURNAL OF ENGINEERING AND TECHNOLOGY MANAGEMENT	2
35	JOURNAL OF MANAGEMENT IN ENGINEERING	2
36	JOURNAL OF MANAGEMENT INFORMATION SYSTEMS	2
37	MANAGEMENT SCIENCE	2
38	NATURAL HAZARDS	2
39	OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE	2
40	SCIENCE OF THE TOTAL ENVIRONMENT	2

41	SOFTWARE QUALITY JOURNAL	2
42	STRATEGIC MANAGEMENT JOURNAL	2
43	WATER RESOURCES MANAGEMENT	2
44	ACI MATERIALS JOURNAL	1
45	ADMINISTRATIVE SCIENCE QUARTERLY	1
46	ADVANCES IN MATERIALS MANUFACTURING SCIENCE AND TECHNOLOGY	1
47	ADVANCES IN NEURAL NETWORKS - ISSN 2005, PT 2, PROCEEDINGS	1
48	AIAA JOURNAL	1
49	ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY	1
50	AQUATIC SCIENCES	1
51	AUTOMATICA	1
52	BIOLOGICAL CONSERVATION	1
53	BT TECHNOLOGY JOURNAL	1
54	BULLETIN OF MATHEMATICAL BIOLOGY	1
55	CIRP ANNALS-MANUFACTURING TECHNOLOGY	1
56	CLIMATIC CHANGE	1
57	COMPUTERS & INDUSTRIAL ENGINEERING	1
58	COMPUTERS & OPERATIONS RESEARCH	1
59	COMPUTERS AND ELECTRONICS IN AGRICULTURE	1
60	CYBERNETICS AND SYSTEMS	1
61	DECISION SCIENCES	1
62	ELECTRONIC GOVERNMENT, PROCEEDINGS	1
63	EMERGENCY MEDICINE JOURNAL	1
64	EMPIRICAL SOFTWARE ENGINEERING	1
65	ENERGY	1
66	ENVIRONMENT INTERNATIONAL	1
67	ENVIRONMENTAL MANAGEMENT	1
68	ENVIRONMENTAL MODELLING & SOFTWARE	1
69	ETHOS	1
70	EUROPEAN JOURNAL OF AGRONOMY	1
71	EXPERT SYSTEMS WITH APPLICATIONS	1
72	FAMILIES IN SOCIETY-THE JOURNAL OF CONTEMPORARY HUMAN SERVICES	1
73	FOREST ECOLOGY AND MANAGEMENT	1
74	FUTURES	1
75	GROUND WATER	1
76	HEALTH POLICY	1
77	HUMAN AND ECOLOGICAL RISK ASSESSMENT	1
78	HYDROBIOLOGIA	1
79	ICES JOURNAL OF MARINE SCIENCE	1
80	IEEE TRANSACTIONS ON EDUCATION	1
81	INDUSTRIAL MARKETING MANAGEMENT	1

82	INFOR	1
83	INFORMATION & MANAGEMENT	1
84	INFORMATION SYSTEMS RESEARCH	1
85	INTELLIGENT TUTORING SYSTEMS	1
86	INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING	1
87	INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING	1
88	INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION	1
89	INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH	1
90	INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING-THEORY APPLICATIONS AND PRACTICE	1
91	INTERNATIONAL JOURNAL OF MODERN PHYSICS C	1
92	INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID	1
93	INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING AND KNOWLEDGE ENGINEERING	1
94	INTERNATIONAL JOURNAL OF STD & AIDS	1
95	INTERNATIONAL JOURNAL OF TECHNOLOGY MANAGEMENT	1
96	JASSS-THE JOURNAL OF ARTIFICIAL SOCIETIES AND SOCIAL SIMULATION	1
97	JOM-JOURNAL OF THE MINERALS METALS & MATERIALS SOCIETY	1
98	JOURNAL OF COMPUTER INFORMATION SYSTEMS	1
99	JOURNAL OF ECONOMIC DYNAMICS & CONTROL	1
100	JOURNAL OF ENVIRONMENTAL SCIENCES-CHINA	1
101	JOURNAL OF FOOD ENGINEERING	1
102	JOURNAL OF MEDICAL SCREENING	1
103	JOURNAL OF POLICY ANALYSIS AND MANAGEMENT	1
104	JOURNAL OF POLICY MODELING	1
105	JOURNAL OF PRODUCTIVITY ANALYSIS	1
106	JOURNAL OF SOCIAL WORK EDUCATION	1
107	JOURNAL OF SOFTWARE MAINTENANCE AND EVOLUTION-RESEARCH AND PRACTICE	1
108	JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS	1
109	JOURNAL OF TROPICAL FOREST SCIENCE	1
110	JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT-ASCE	1
111	KNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS, PT 2, PROCEEDINGS	1
112	KYBERNETES	1
113	MATHEMATICS AND COMPUTERS IN SIMULATION	1
114	MEASUREMENT & CONTROL	1
115	MEDICAL DECISION MAKING	1

116	MEDICINE AND SCIENCE IN SPORTS AND EXERCISE	1
117	MICAI 2000: ADVANCES IN ARTIFICIAL INTELLIGENCE, PROCEEDINGS	1
118	NUCLEAR TECHNOLOGY	1
119	OR SPECTRUM	1
120	ORGANIZATION SCIENCE	1
121	PERIODICUM BIOLOGORUM	1
122	PROCEEDINGS OF THE IEEE	1
123	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE	1
124	PRODUCT FOCUSED SOFTWARE PROCESS IMPROVEMENT	1
125	PRODUCTION AND OPERATIONS MANAGEMENT	1
126	PRODUCTION PLANNING & CONTROL	1
127	PUBLIC ADMINISTRATION REVIEW	1
128	QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL	1
129	RESEARCH POLICY	1
130	SIMULATION PRACTICE AND THEORY	1
131	SIMULATION-TRANSACTIONS OF THE SOCIETY FOR MODELING AND SIMULATION INTERNATIONAL	1
132	SOCIAL SCIENCE COMPUTER REVIEW	1
133	SUPPLY CHAIN MANAGEMENT-AN INTERNATIONAL JOURNAL	1
134	TECHNOLOGY ANALYSIS & STRATEGIC MANAGEMENT	1
135	TOTAL QUALITY MANAGEMENT & BUSINESS EXCELLENCE	1
136	TRANSPORTATION RESEARCH PART E-LOGISTICS AND TRANSPORTATION REVIEW	1
137	WASTE MANAGEMENT	1
138	WATER RESOURCES RESEARCH	1
139	WATER SCIENCE AND TECHNOLOGY	1
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