

# Computers and Information Technology (Knowledge and Data Engineering) Mapping of STS Literature in the form of “Journals Covered “

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**Abstract**—*Science Technology Studies (STS) is a multifaceted discipline with scatteredness in nature. Hundreds of journals of varied disciplines are contributing to STS literature. Current Literature on Science of Science (CLOSS) was an internationally recognized abstracting/reviewing journal in the field of "Science Technology Studies" Current Literature on Science of Science (CLOSS) was having a readership of international scientists, scholars, policy makers and planners. It was printed for circulation/exchange /subscription purpose. Now a days large number of journals are contributing to STS . Initially CLOSS was brought out with a few dedicated journals on science policy. Special issues were brought out on STS activity of Indian and developing countries every year. As CLOSS was closed in 2008, about 100 journals were covered through various sources in concluding issues during 2007-2008. Large number of Indian and foreign journals of varied disciplines were covered in CLOSS for more than thirty years. Some of the journals covered were : Current Science; Economic and Political Weekly; Energy Policy; Environment, Development and Sustainability; Environmental Monitoring and Assessment ; Environmentalist; Industry and Innovation 2008, 15(1); International Information and Library Review ; Indian Journal of History of Science ; Indian Journal of Regional Science; Journal of Scientific & Industrial Research ; Kurukshetra; Research Policy ; Research Technology Management ; Science; Science and Public Policy ; Science of the Total Environment ; Science Technology & Society ; Scientometrics ; Social Science & Medicine; Social Studies of Science ; Space Policy ; Technological Forecasting and Social Change ; Science, Technology & Human Values ; Technology & Society ; Technovation ; Telecommunications Policy; The World Economy ; Transport Policy ; Vikalpa; World Bank Research Observer ; World Development ; Yojana etc.*

## 1. INTRODUCTION

Current Literature on Science of Science (CLOSS) was an internationally recognized abstracting/reviewing journal in the field of "Science Technology Studies" (STS) aiming at international readership of scientists, scholars, policy makers and planners was published by CSIR-NISTADS It was printed for Circulation/Exchange /Subscription purpose from 1972 to -2008 regularly "Science and Technology Studies in India" a special issue on Indian STS was brought out every year

The main objective of CLOSS was to report latest literature in the field of Science and Technology Studies(STS).. STS is a multifaceted discipline of widely scattered nature With a few dedicated journals to the STS , the literature is scattered over a broad spectrum of specialities and large number of institutes and publishers solely devoted to STS.

## 2. SPINES CLASSIFICATION

The subject scope of CLOSS falls under the guidelines of UNESCO sponsored SPINES-Science Policy Information Exchange System, so as to take into account the different theoretical, and practical approaches to policy making, management and applications in the field of Science and technology. Science Policy literature in CLOSS is classified in the following Spines categories.

Foundation of Science and Technology Policy Making (A00); Science and Technology Resources( B00);Practice of Science and Technology Policy Making (C00);General Contents and Results of Science and Technology Plans, Programmes and Projects ( D00).

The issues related to socio- economic and environmental development which concern the STS scholars, policy makers and science planners are: management of technology, adoption of technology, application of new technologies, intellectual property policies, energy options and policy planning, environmental protection, population and health policies. CLOSS being a specialized Journal aiming towards a specific readership within and outside the country

Publications and patents are the indicator of S&T activity. Publications brought out by scientists and patents obtained by them broadly indicate the output of S&T. These outputs can be used to understand growing India's capacities and potentials in different fields of S&T. A review of these indicator provides significant insight into the national R&D capabilities, emerging priorities, performance and future trajectories of scientific institution in the country. Research papers

(primarily in peer reviewed journals) and patents are the most commonly used proxies in assessing intensity of knowledge creation and utilisation. Research articles act as major channels for dissemination of scientific knowledge and their number serve as indicators of scientific production. (India Science and Technology 2010)

### 3. CORE JOURNALS (COVERED BY CLOSS)

Following list of Journals is observed to be covered regularly.

**Table 1: List of Core Journals covered in CLOSS**

1	Social Studies of Science
2	Scientometrics
3	Science Technology & Human Values
4	Research Policy
5	Studies in History and Philosophy of Science
6	Social Science and Medicine
7	Isis
8	Technology and Culture
9	Minerva
10	Journal of the American Society for Information Science
11	Journal of Research in Science Teaching
12	Organization Studies
13	Strategic Management Journal
14	American Sociological Review
15	Technological Forecasting and Social Change
16	Environment and Planning
17	Science Education
18	Social Science Information
19	Philosophy of the Social Sciences
20	Technology Analysis & Strategic Management

### Journals covered in different years during 2003-05 and during 2007-08 in CLOSS

Following is the list of journals as covered in 2003-05 and 2007-08.

**Table 2: Journals covered during 2003-05 and during 2007-08**

S.no	Journals covered 2003-05	Journals covered 2007-08
1	American Journal of Economics & Sociology 2003, 62(4) Anvesak 2005, 35(1) Applied Economics 2003, 35(6), 35(7) Applied Energy 2003, 76(1-3) ASCI Journal of Management 2002, 31(1-2) Asian Biotechnology and Development Review 2004, 6(1), 6(3); 2005, 7(1), 7(2), 7(3) Asian Development Review 2005, 21(2) Asia-Pacific Development Journal 2005, 12(1)	Acta Astronautica 2008, 63(1-4) Acta Geophysica 2008, 56(4) Agricultural Economics 2008, 38(3) Agricultural Systems 2007, 94(2), 94(3) Agriculture 2008, 64(2) Applied Artificial Intelligence 2008, 22(9) Asia-Pacific Journal of Operational Research 2008, 25(2) Australian Journal of Agricultural and Resource Economics 2008, 52(4)
2	Biomass and Bioenergy 2003, 24(1), 25(5); 2004, 26(5), 26(6); 2005, 27(3)	British Food Journal 2008, 110(10) Bulletin of Science, Technology & Society 2007, 27(2)
3	Canadian Journal of Development Studies 2003, 24(1) China Economic Review 2004, 15(2); 2005, 16(4) Climatic Change 2002, 54(3) Computer Law & Security Report 2005, 21(6) Contributions to Indian Sociology 2002, 36(1-2) Crop Protection 2003, 22(2) CSI Communications 2002, 26(1) Current Science 2002, 83(6)~2003, 84(9), 85(2), 85(7), 85(8)	Chemical & Engineering News 2007, 85(16) Civil Engineering 2007, 77(4) Climatic Change 2008, 91(3-4) Comparative Politics 2008, 41(1) Computational Geosciences 2008, 12(4) Contemporary South Asia 2008, 16(3) Critical Reviews in Environmental Science and Technology 2008, 38(1) Current HIV Research 2008, 6(5) Current Science 2008, 95(3)
4	Desalination 2005, 182(1-3) Developing Economies 2003, 41(4) Development Studies 2005, 41(4)	Development and Sustainability 2008, 10(4)

5	<p>Ecological Economics 2003, 46(3)  Economic and Political Weekly 2002, 37(27), 37(33)~2003, 38(1), 38(3), 38(12-13), 38(14),38(15),38(17),38(20), 38(21),38(23),38(25), 38(31), 38(43), 38(49)  Economische en Sociale Geografie 2003, 95(1)  Energy 2005,30(2-4)  Energy Conversion and Management 2005, 46(9-10)  Energy Economics 2002, 24(5) ; 2004, 26(6)  Energy Policy 2002, 31(4)~2003, 31(10), 31(11), 31(12), 31(14) ; 2004, 32( 15); 2005, 33(10), 33(3)  Engineering and Design 2003,69(1-4)  Environment &amp; Development Economics 2003, 8(3), 8(Part 2)  Environment &amp; Urbanization 2003 , 15(1), 15(2)  Environment and Planning A 2002,34(12)  Environmental &amp; Resource Economics 2003, 24(1)  Environmental Ethics 2002, 24(3)  Environmental Science &amp; Policy 2005,8(4)</p>	<p>Economica 2008, 75(298)  Electronic Government 2008 5, (4)  Energy Policy 2007, 35(2); 35(4); 2008, 36(6);36(7); 36(11)  Environment, Development and Sustainability 2008, 10(6)  Environmental Monitoring and Assessment 2008, 145(1-3) ;147(1-3)  Environmentalist 2008, 28(4)  European Journal of Development Research 2008, 20(1) , 20(4)  Experimental Agriculture 2008, 44(2)</p>	9	<p>IDS Bulletin 2003, 4(2); 2005, 36(2), 38(2)  IETE Technical Review 2002, 19(6),20(2)  Indian Farming 2005, 55(5)  Indian Journal of History of Science 2002,37(3);2003,38(1),38(3), 38(4) ; 2004,39(3); 2005,40(1),40(3)  Indian Journal of Regional Science 2003, 35(1)  Indian Journal of Transport Management 2005,29(2)  Industrial Herald 2003,38(6)  Information &amp; Management 2005, 42(6)  Information Society 2003, 19(2)  Information Technology &amp; Libraries 2003-, 22(1)  Interdisciplinary Science Reviews 2003, 28(1)  International Business Review 2005, 14(5)  International Congress Series 2003, 1240(10)  International Journal of Agricultural Economics 2005, 60(3)  International Journal of Educational Development 2005, 25(5)  International Journal of Geographical Information Science 2003, 18(1)  International Journal of Geriatric Psychiatry 2003, 19(2)  International Journal of Hydrogen Energy 2004,29(4)  International Journal of Information Technology and Management 2002, 1 (1)  International Journal of Operations &amp; Production Management 2003, 23( 11-12)  International Journal of Technology Management 2002, 23(6); 2003, 25(1-2), 25(3/4) ; 2005,29(112),29(3/4); 2005, 3(112)  International Journal of Technology Transfer and Commercialisation 2002, 1 (1/2)</p>
6	<p>Food Policy 2003,28(5-6)  Forest Policy and Economics 2005, 7(6)  Futures 2003 ,35(4),35(5),35(7) ; 2004,36(6-7); 2065, 37(1)</p>	<p>Foresight 2008, 10(3)  Futures 2008, 40(1)</p>		
7	<p>Global Networks 2003, 3(2)</p>			
8	<p>Health Policy &amp; Planning 2003, 18(3), 18(4)  Health Policy 2003,66(1) ; 2004, 69(2); 2005, 75(1)</p>	<p>Heat Transfer Engineering 2007, 28(4)  Hybrid Modeling of Energy-Environment 2007, 27</p>		

10	<p>Japan and the World Economy 2005, 17(4)  Journal of Agrarian Change 2005, 5(4)  Journal of Development Economics 2003, 73(2) ; 2004, 75(1); 2005, 78(2)  Journal of Education Development 2005,25(5)  Journal of Educational Planning and Administration 2002, 16(3)  Journal of High Technology Management Research 2002, 13(1)  Journal of Indian School of Political Economy 2002, 14(4)  Journal of Information Science 2002, 28(2)  Journal of Information Science 2004, 31(1)  Journal of Public Health Medicine 2002, 24(3)  Journal of Rural Development 2003,22(1),22(2),22(3),22(4)  Journal of Scientific &amp; Industrial Research 2003, 62(1-2), 62(5), 62(6), 62(8)  Journal of Trace Elements in Medicine and Biology 2005, 18(4)</p>	<p>Journal of Biosciences 2008, 33(4)  Journal of Business and Industrial Marketing 2008, 23(7)  Journal of Business Ethics 2008, 80(4) ; 81(1) ;83(2) ;  Journal of Cleaner Production 2008, 16(12)  Journal of Commercial Biotechnology 2008, 14(1)  Journal of Environmental Management 2008 ,88 (4) ;89(1)  Journal of Environmental Planning &amp; Management 2007, 50(2)  Journal of Forest Research 2008, 13(1)  Journal of Health Population and Nutrition 2008, 26(4)  Journal of Indian Philosophy 2008, 36(2); 36 (3); 36(5-6)  Journal of Intellectual Property Rights 2008,13 (3 ,13(5), 13(6)  Journal of International Trade and Economic Development 2008,17(4)  Journal of Mines, Metals and Fuels 2008, 56(5-6)  Journal of Pharmaceutical Education and Research 2008, 42(1)  Journal of Product Innovation Management 2007, 24(3)  Journal of Rural Development 2008, 27(2) ;27(3)  Journal of Scientific and Industrial Research 2008, 67(8) ;67(9)  Journal of Technology Transfer 2008, 33(3)  Journal of the National Science Foundation of Sri Lanka 2008, 36(1)  Journal of Urban Economics 2008, 64  Journal of Vegetation Science 2007, 18(2)</p>	<p>13 Nuclear Instruments and Methods in Physics Research 2003, 212(12)  Natural Hazards 2008, 5(3)  Natural Resources Forum 2008, 32(4)  Nature Reviews Genetics 2008, 9 (1), 9(6)</p> <p>14 Physics and Chemistry of the Earth, Parts AIBIC 2005  Pranjana 2002, 5(2)  Productivity 2003,44(1),44(2)  Psychologia 2002, 45(3)  Public Health 2003, 118(2)</p> <p>15 Refocus 2004, 5(5); 2005, 6(6)  Renewable and Sustainable Energy Reviews 2005, 9(1), 9(2)  Renewable Energy 2004, 29(9); 2005, 30(10)  Reproductive Health Matters 2002, 10(19), 10(20); 2003, 11(21)  Research Observer 2002, 17(2)  Research Policy 2003,32(6) ; 2004,33(8); 2005, 34(4), 34(6)</p> <p>16 Science &amp; Engineering Ethics 2003, 9(3)  Science Policy and Society 2005, 10(2)  Science Technology and Society 2005, 10(2)  Scientometrics 2003, 57(1) ; 2005, 62(2), 2006, 64(1), 64(2)  Serials Review 2005,31(4)  Social Science &amp; Medicine 2002, 56(2) ,56(5); 2003, 57(1), 57(9) ; 2005, 60(2), 61 (9), 61 (12)  Society &amp; Natural Resources 2003, 16(4)  Space Policy 2003 19(3) ; 2006,22(1)  Studies in History 2002, 18(1)</p>	<p>Natural Hazards 2008, 5(3)  Natural Resources Forum 2008, 32(4)  Nature Reviews Genetics 2008, 9 (1), 9(6)</p> <p>PICMET Portland International Center for Management of Engineering and Technology, Proceedings 2008, 4599637  Policy Studies Journal 2008, 36(1)  Progress in Energy and Combustion Science 2008, 34(6)</p> <p>Research Journal of Chemistry and Environment 2008, 12(1)  Research Policy 2007, 36(3); 36(4)  Research Technology Management 2008, 51(2)</p> <p>Science and Public Policy 2008, 35(2)  Science Letters-India 2008, 31(3-4)  Science of the Total Environment 2007, 376 (1-3)  Science Technology &amp; Society 2007, 12(1)  Science, Technology &amp; Human Values 2007, 32(2)  Scientometrics 2007, 71(1); 71(2); 2008,74 (1),74(2),74(3); 75(1),75(2),75(3)  Social Science &amp; Medicine, 2007, 64 (8)  Social Studies of Science 2007, 37(1); 37(2), 37(3)  Space Policy 2007, 23(2)</p>
11	<p>Korean Journal of Defense Analysis 2003, 15(1)  Kurukshetra 2003, 51(9)</p>			
12	<p>Man &amp; Development 2005, 73.</p>	<p>Marine Policy 2008, 32(3)  Medicine, Healthcare and Philosophy 2008, 11(2)  MIS Quarterly Management Information Systems 2008, 32(2)</p>		

17	<p>Technological Forecasting &amp; Social Change 2002, 69(4); 2003, 70(8) ; 2004, 71 (7), 71 (8); 2005, 72(3), 72(5), 72(5)</p> <p>Technological Forecasting and Social Change</p> <p>Technology in Society 2003, 25(1); 2004, 26(4); 2005, 27(1)</p> <p>Technovation</p> <p>Technovation 2002, 22(7), 22(8); 2003, 23(1), 23(2), 23(7) ; 2004, 24(12); 2005, 25(3), 25(4), 25(5), 25(8), 25(10)</p> <p>Telecommunications Policy 2003, 27(5-6) ; 2004, 28(9-10), 29(4), 29(5-6), 29(7), 29(9-10)</p> <p>The European Journal of Development Research 2002, 14(1)</p> <p>The Indian Mining &amp; Engineering Journal 2003,42(6)</p> <p>The International Information &amp; Library</p> <p>The International Information &amp; Library Review 2003,35(2-4) ; Review 2004,36(1),36(3),36(4); 2005, 37(1), 37(2), 37(3), 37(4)</p> <p>The International Journal of Human Resource Management 2003, 14(4)</p> <p>The Journal of Development Studies</p> <p>The Journal of Development Studies 2003,39(6) ; 2005,41 (4)</p> <p>The Journal of High Technology Management Research 2005, 16(1), 16(2)</p> <p>The Lancet 2004, 364(9430)</p> <p>Toxicology 2004, 198(1-3)</p> <p>Toxicology and Applied Pharmacology 2005, 207(2)</p> <p>Transport Policy 2005, 12(2)</p> <p>Trends in Biotechnology 2004,22(6)</p>	<p>Technological Forecasting and Social Change 2007, 74(5)</p> <p>Technology &amp; Society 2007, 12(1); 29(2)</p> <p>Technovation 2007, 27(4), 27(5)</p> <p>Telecommunications Policy 2007, 31(3-4), 31(5)</p> <p>The World Economy 2008, 20 (3)</p> <p>TMS Annual Meeting 2008</p> <p>Transport Policy 2007,14(3)</p>	<p>20</p> <p>Waste Management 2005, 25(6),</p> <p>Wheat in Punjab 2003, 44( I)</p> <p>World Development 2002,30(8); 2003, 31(1), 31(11), 31(12) , 2004 32(3),32(4),32(5),32(6),32(9) ,32(11),32(12); 2005, 33(11),33(2),33(4),33(5), 33(8)</p> <p>World Patent Information 2003, 25(2) ; 2004, 26(1),26(3); 2005, 27(1), 27(2), 27(3); 2006, 28(1)</p>	<p>Water Policy 2008, 10 SUPPL.(1)</p> <p>Work, Employment and Society 2008, 22(4)</p> <p>World Bank Research Observer 2008, 23(2)</p> <p>World Development 2007, 35(5), 35(6)</p> <p>World Wide Web 2007, 5(2)</p>
21	<p>Yojana 2003, 47(2), 47(3), 47(6)</p>			
18	<p>Utilities Policy 2003, I 1 (2)</p>			
19	<p>Vaccine 2005, 23(37)</p> <p>Vikalpa</p> <p>Vikalpa 2003, 28( 1-2) ; 2005, 30( 1 )</p>			

#### 4. CONCLUSION

Current Literature on Science of Science (CLOSS) was an internationally recognized abstracting and reviewing journal in the field of Science Technology and Society (STS) Studies, being published by CSIR -NISTADS. Aiming at international readership, it was the only Journal, that reports the literature on all the facets of STS, ranging from theoretical and practical approaches to policy making, management and applications in Science, Technology and Society

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