Citation Analysis of Theses in Computer Science Awarded By Universities in Maharashtra State

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Abstract

Library as a perform way of determining the use of information sources made by the scholars of university. In the present study, Citation Analysis of Theses in Computer Science Awarded By Universities in Maharashtra State. 79 Ph. D. theses of Computer Sciences were chosen as a sample from the year 2000 to 2014. There are 9687 citations in 79 theses. The data were collected from the bibliographical entries listed at the end of the theses, which was used by the researchers for completing the theses. The citations were photocopied and the data was collected. Citations analysis is carried out to find the forms of cited documents, the chronological distribution of cited documents, to find out the obsolescence of Computer Science literature, to find out the authorship pattern of cited documents, to rank the cited authors, to rank list of cited journals, publishers, web resources, and books, to find out the language wise distribution of citations, geographical distribution of citations. The results are based on the analysis of collected data, the frequency distribution of different forms of documents used by researchers in Computer Science (BAMU), heavily depend on journal literature that is 2453 (56%) citations were in Computer Science (NMU) 373 (45 %), RTMNU 562(41%), SGBAU 525(66%), SPPU 441(40%), SU 123(34.17%) SNDT 182(41.08%), MU 160 (39.51%) citations were on journal literature, the period-wise or chronological distribution of citations was measured by number of years which elapsed between the publications of a document. Maximum number of citations 3812(39.35 %) are there in the group of years i.e. 1996-2005 and least number of citations 326 (3.37%) came in the group of years 1926-1980. The authors were analyzed to determine the percentage of single author, two authors and three authors, four authors and five authors. The
maximum number of citations 3606 (37.27 %) are of Double authors and Second maximum number of citations 2941 (30.36%) are of Single authors, 2469(25.49 %) citations are three authors, 279 (2.88%) citations are Four authors and 11 citation (0.11%) citation are five authors. The author who is most preferred by researchers, that document is most important to keep in the library for that purpose author ranking is essential to librarians as well as researchers. In present ‘Ekman , P.’ is most cited author in Computer Science literature that is 148 (1.53 %), second rank cited author are ‘Jain, A.K.’ that is 132 (1.36 %) and Third rank author are ‘Rafale, C.Gonzalez.’ that is 118 (1.22 %). The publishers plays a very important role in getting the right information sources. The analysis of data shows “McGraw Hill Publication.” scores the top position with 388 (4.01 %) citations, second rank goes to ‘Wesley Publication.’ With 337 (3.48 %) citations, third rank goes to ‘Pearson Education Publishing Company’ with 288 (2.97%) and ‘Indian Institute of Technology Kanpur’ with 267(1.72%) on forth rank. And 1629 (16.82) citations are without publisher. Indian citations are 2138 (22.07%) and 6027 (62.22%) citations are foreign citations. And remaining 1522 (15.71%) Citations have not mentioned the country, see figure 4.5 below. This indicates that Researcher mostly prefers Foreign Publication. Out of 9687 citations only 685 (7.07%) citations are cited as web resources. Out of that ‘http://min.enc.purdue.edu/~inx/paper/it05.pdf’. Is top of the list with 37(5.40%) and http://www.acm.org/crossroads/xrd6-3/sahimagecoding.html.28(4.09%) with second position, http://www.undl.org & www.acesportsonline.com 26(3.80%) with third position, http://en.wikipedia.org/wiki/phoenician_language 25(3.65%) forth position, and 202(29.39%) web resources are single cited respectively, Journals are most preferred document used by the researchers Out of 4819 journals ‘IEEE Transaction on pattern Analysis and Machine Intelligence’ journal is mostly cited journal in computer Science literature that is 279 (5.79 %), and second rank cited journal is ‘IEEE .Pattern recognition on System’ that is 164 (3.40%) and third rank journal is ‘IEEE Transaction on Instrumentation & Measurement ’ that is 134 (2.78 %),in book ranking the book Out of 1559 books the book ‘Digital Image Processing’ is the most cited book that is 68 (4.36 %). Second Rank goes to ‘Digital Image Processing using Mat Lab’ that is 52 (3.34) and most books cited in single time that is 407 (26.11 %).

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