10th November 2014. Vol. 69 No.1

© 2005 - 2014 JATIT & LLS. All rights reserved.

ISSN: 1992-8645

www.jatit.org

E-ISSN: 1817-3195

RECOGNIZING SELF-CITATIONS VIA CITATION QUALITY ANALYSIS

¹M. RAJA AND ²T. RAVICHANDRAN

¹ Department of Computer Science & Engg., CMS College Engineering and Technology, Coimbatore, India ²Principal of Hindustan Institute of Technology, Coimbatore, Tamilnadu, India Email: ¹rajajuly2014@gmail.com

ABSTRACT

Self citations have so far been excluded from citation count. It is widely believed that such self citations do not have any significance than merely to increase the citation count of the article and improve the prestige of the author through citation count.

Self citations should not always be avoided as the article may have been cited for genuine reasons. Analysis of self-citations helps in evaluating continuing research as well.

This paper argues that self-citations must not be blindly excluded in citation counts when evaluating prestige value of a research paper/author. Experiments conducted on researcher's self-citation dataset reveal that most self-citations show marginal improvement thus establishing researcher progress in the respective area of research.

Keywords: Citations, Self Citations, Impact Factor, Citation Index, h-index

1. INTRODUCTION

Citation is a reference to a published or unpublished source. More precisely, a citation is an abbreviated alphanumeric expression embedded in the body of an intellectual work that denotes an entry in the bibliographic references section for the purpose of acknowledging the relevance of the works of others to the topic of discussion at the spot where the citation appears.

Citations play a major role in representing semantic content of the full text articles. Citations help to document the source works that underpins a particular concepts, propositions and arguments. The purpose of these citations is to help readers identify and relocate the source work, provide evidence of research in the topic of concern and to acknowledge the findings of the author who originally contributed the concept or theory. Author self-citation contributes [Deepika and Mahalakshmi, 2011a; Deepika and Mahalakshmi, 2012] to the overall citation count of an article and the impact factor of the journal in which it appears.

Self-citing is often considered as an attempt of self-advertising. But an author self cites because the nature of work may build upon previous findings. "Given the cumulative nature of the production of new knowledge, self-citations constitute a natural part of the communication *process.*" [Costas et al., 2010]. By including selfcitation a certain problematic effect called PIED-PIPER effect can be eliminated. PIED-PIPER effect can be explained by considering a situation where in a low cited but an important paper of a researcher doesn't acquire the proper recognition due to blind elimination of self-citations can affect the researcher.

Self-citations are believed to be plagiarized across the parental context and are not given the worth they deserve. Journal impact factors do not measure the author quality [Deepika and Mahalakshmi, 2011a; Deepika and Mahalakshmi, 2012] whereas h-index has an inclusive measurement of self-citations. Again, it is policy wise and depends on the organization that counts citations for h-index analysis. Google Scholar includes self-citations into the total citations measure and Scopus exclude the self-citations for calculation of h-index of a particular researcher.

Analysing the quality of self-citations helps to build the prestige of researcher thereby improving the researcher presence in research communities [Mahalakshmi et al., 2012a & 2012b; Sendhilkumar et al., 2012]. Validity of self-citations needs to be explored since every self-citation is an indicative of continuing research [Mahalakshmi and Sendhilkumar, 2013].

<u>10th November 2014. Vol. 69 No.1</u> © 2005 - 2014 JATIT & LLS. All rights reserved[.]

| | JATIT |
|------------|----------|
| E-ISSN: 18 | 817-3195 |

| www.jatit.org | |
|---------------|--|
| www.idit.012 | |

This paper discusses a qualitative analysis of analyzing self-cited research publications from the perspective of citation quality. The research papers and their self-citations are tracked [Mahalakshmi and Sendhilkumar, 2008; Mahalakshmi et al., 2009; Mahalakshmi et al., 2011] and fed as input to the citation quality analyser. The (self) citations are analysed for citation quality via citation sentiment analysis [Sendhilkumar and Mahalakshmi, 2011; Mahalakshmi et al., 2013; Sendhilkumar et al., 2013c] which ranks the self-citations qualitatively. Self-citations beyond a definite threshold are rejected. Thus every researcher is recommended with quality self-citations which shall be included prestigiously in total citations thereby genuinely improving the h-index of the researcher.

2. LITERATURE SURVEY

ISSN: 1992-8645

Self citations had always been the topic of argument since the early research on citation metrics. Self Citations are not considered for the bibliometric evaluation of articles. It is widely believed that these citations do not necessarily reflect the importance of their work or its impact on the rest of the scientific community [James & Dag, 2007]. Early research on this was done on National Citation Report (NCR) for Norway ISI. It was concluded that self-citations have impact on the article. As the number of self citations increase the probability of the article being cited by others also increases. While it is already well-known that citation counts are at best a noisy indicator of scientific contribution, this work suggests an even deeper problem - even counts of citations from others are sensitive to strategic manipulation by those who are willing to cite themselves frequently.

The citation count and author's work is highly influenced by the number of self citations and recitations of the article [Isola et al, 2010]. A study reports that the scientometric measures like JIF [Deepika and Mahalakshmi, 2011b], h-index [Hirsch, 2005] etc are greatly affected by the self citations and the pattern in which they are cited [Lievers. 2012]. The forward-chronological reference resulted in large pool of potential articles. The articles were prioritized based on relevance among citations. The results showed that the f-N relationship was affected by self-citations. The study concluded that self references are more likely to be repeatedly cited and the repeated citation of self-references can be an indicator reflecting the true relevance to the citing document.

A study on when to begin citation counting disregards the previous measures where the articles

availability played a major role in citation count [Craig et al., 2007]. This study argues that online availability of the article should not be affecting the citation metric. This also includes the time at which the article was published plays a major role for citation index.

Citations were analyzed and evaluated using various methods. Initially, frequency of citations received from Science Citation Index (SCI) database was used to find the journal quality [Garfield, 1999]. SCI ranks the journal based on the number of citation an article receives. If an article is cited less frequently it is given lesser reputation even if the quality of content in the article is good. Later with the introduction of graph-theoretic approaches, researchers were motivated to rank network entities using link analysis approaches. PageRank [Page et al., 1998] was used for citation counting. Here the citations are considered to be in a link structure and the citations are ranked based on the number of forward (outgoing) links and backward (incoming) links an article has and the importance of nodes from and to which the link flows. But PageRank is mainly used for web pages than Research article.

Hyper text Induced Topic Search (HITS) [Kleinberg, 1999] was later used for ranking. It is very similar to PageRank, except that it creates two popularity score instead of one and it considers both in links and out links to create popularity scores for each page. Comprehensive Citation Index (CCI) [Henry H. Bi et al., 2011] considers both direct and indirect influence of research article. The indirect influence is considered by citation links with even those papers that do not directly cite it. Heterogeneous PageRank algorithm [Lagville et al, 2006] is based on the assumption that - there would be a different propagation probability for a node to follow different kinds of out-going links (links to different types of nodes).

Citation Classification is concerned with identifying the nature of connection between the cited and citing articles. The earliest citation scheme lists the reasons why authors cite other works [Garfield, 1965]. The first classification of citation divides citations in running text into four dimensions rather than one classification function [Moravcsik and Murugesan, 1975] namely: conceptual or operational use, evolutionary or juxtaposition, organic or perfunctory and confirmative or negation. Another scheme classifies citations into Seven Argumentative Zones say, Background, Other, Own, Aim, Textual, Contrast, and Basis, according to their role in the author's argument [Simon Teufel et al., 2006].

<u>10th November 2014. Vol. 69 No.1</u> © 2005 - 2014 JATIT & LLS. All rights reserved[.] JATIT

| ISSN: 1992-8645 | www.jatit.org | E-ISSN: 1817-3195 |
|-----------------|---------------|-------------------|
| | | |

A completely diverse yet simple classification was proposed which composed of only three categories namely Type B (base), C (compare) and O (other than B and C) [Nanba and Okumura 1999, 2000]. Another classification of citation consist 12 category framework based on the empirical work in citation content analysis [Simone Teufel, 2006]. The classification are Weakness of cited approach, Contrast Comparison in Goal & Results, base, uses, modifies, motivate, similar, support and neutral. Yet another classification scheme [Pham et al, 2003] classifies citations into 4 categories, such as Basis, Support, Limitation and Comparison. Using Ripple Down rules citation context were categorized into these category.

Automatic identification of sentiment polarity in citations represent each citation as a feature set in SVM framework and the author argues that it produces good results for sentiment classification [Athar et al., 2011]. Sentiment analysis was used to rate citations as positive, neutral or negative along with the help of a Lexical Analyzer called SentiWordNet [Diana et al., 2011].

3. METHODOLOGY

The following methodologies are proposed in our system for handling self-citations.

Lity Score Estimation Citation Quality Score

> Worthiness or self citation

If citatior alidation

Figure 1: Overall Framework for analyzing citation quality of Self-citations

3.1 Extracting Citation Context

Citation context refers to the sentences that speak about the cited article. Such sentences can be identified by the placeholders at the end of the sentence or anywhere within where the context of cited work is used. However extraction of citation context is very difficult due to various styles of citation references. Trained citation CRF file [Zhang 2009] is a probabilistic model with some learning feature. Using that CRF file, the citation context is segmented from the whole article and the full citation is parsed to recognize fields, including author name, title, and source.

3.2 Sentiment Analysis

Sentiment analysis of citations in research articles is a new and interesting problem as there are many linguistic differences between scientific texts and other genres. This paper uses SentiWordNet [Baccianella et al., 2010] to identify the sentiment of citation as positive, negative or neutral [Diana et al., 2011]. SentiWordNet has 117,374 annotated synsets from WordNet 2.0 with sentiments scores. In SentiWordNet synsets are assigned with some numerical score with the notations Pos(s), Neg(s),Obj(s), which are the positivity, negativity and objectivity of the each synset respectively. The overall numerical score of the notation is equal to 1 distributed in the range from 0.0 to 1.0.

The procedure to obtain the sentiment for the citation is as follows. The citation context is segmented into sentences. The sentences are then brought into being using part-of-speech tag as an annotation on each word or symbol. The sentiment score for each adjective is found from SentiWordNet Lexical Analyzer. All adjective scores are aggregated to obtain overall sentiment score. Adjectives are considered because mostly adjectives represent the sentiment in a sentence.

3.3 Classification

Citation classification is concerned with identifying the nature of connection between the cited and citing articles. We use the classification scheme [Simone Teufel, 2006] that categories as Compare, basis, support, use, modifies, weak and simple. Sentences with existing citations are used as training data after removing the citation marker. For each paper from the dataset, training set is got from the examples annotated with class values. For each citation context the appropriate features were extracted and the classifier was constructed using Naïve Bayes algorithm. This classification has non numerical label.

3.4 Content Relevancy

10th November 2014. Vol. 69 No.1 © 2005 - 2014 JATIT & LLS All rights reserved

| | © 2000 2014 0/111 QE | | 11175 |
|------------------------|-------------------------|-------------------------|-------------------|
| ISSN: 1992-8645 | www.jatit | .org | E-ISSN: 1817-3195 |
| The previous technique | es that we discussed in | 3.6 Self Citation Granh | Reduction |

The previous techniques that we discussed in this paper are based on the citation context retrieved from each citation article but this section focuses on the full text of cited and citation article. Identifying the relevance of cite to a particular context is done by cosine similarity and outlier determination [Deepika et al., 2011; Deepika and Mahalakshmi, 2011b; Mahalakshmi et al., 2012].

Outlier determination is done so as to identify articles that are not greatly relevant to cited article. The citation outlier is found by Latent Dirichlet allocation (LDA) that is widely used for identifying the topics in a set of documents. The probability distribution is found based on Gibbs sampling and distribution of content over various topics is identified. The cited article and citation article are topic modeled using LDA and the distributions of two articles are identified. Then the similarity between the two topic distributions is computed. If they are at least 50% similar, then the citations are found to be apt, else the base paper is considered to be an outlier for that citation.

3.5 Aggregating the Citation Score

In each citation article the seed paper may have be referenced two or more within the paper. Each reference point is called the citation instances. Classification is non numerical value that can be used for the purpose of combining cite instance values. Aggregation of quality score is based on the aspects of the citation. Citation quality score is calculated by the scores obtained from sentiment analysis, similarity and outlier detection. The classification categories are ordered based on the importance as: Compare Basis, Support, Use, Modifies, Weak and Simple. In the aggregation process the cite instance belonging to the highest ranking category is selected and its scores are aggregated.

Citation Quality Score = sentiment_i + Similarity_i +
$$LDA_i$$
 (1)

where i =highest importance classification category. In case of the Citation instance being an outlier then aggregation process omits the LDA similarity score.

where i =highest importance classification category.

3.6 Self Citation Graph Reduction

Self citation network contain nodes and edges. Nodes represent the article. Edges represent the author self citation relationship between the articles. The graph representation for author Ying Dar Lin and his self-citations (as in Table 1) is given in Figure 2.

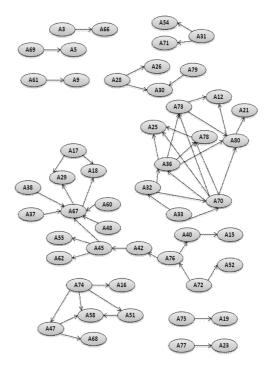


Figure 2: Self Citation network of Author Ying Dar Lin

The self citation network (figure 2) is reduced by considering the citation quality score across articles. This filtering will enable us to retain only the self citations that are semantically significant. The edges and the nodes that have less worthy citation to the cited article are removed from the graph. The articles retained after the filtration will have valid citations with significant improvement from the cited article.

RESULTS 4.

4.1 Citation Context Extraction

The following table shows the recall, precision, and F1-score for the context extraction. Precision, recall and F1 score are found based on the total number of annotated fields, total number

<u>10th November 2014. Vol. 69 No.1</u> © 2005 - 2014 JATIT & LLS. All rights reserved

| ISSN: | 1992-8645 | | ww | w.jatit.org | | | E-ISSN: 18 | 17-3195 |
|-------|-----------|---------|----|-------------|-------|-------|------------|---------|
| 6 | 4 1 | 1 / / 1 | 1 | C | (1 C | •, ,• | | .1 |

of correctly identified field and total number of exempted working in

| Fields | Total | Identified | correct | Precision | Recall | F1 |
|-----------|-------|------------|---------|-----------|--------|------|
| Title | 53 | 52 | 52 | 1.00 | 0.98 | 0.99 |
| Source | 53 | 52 | 47 | 0.90 | 0.89 | 0.90 |
| Year | 53 | 52 | 51 | 0.98 | 0.96 | 0.97 |
| Surname | 53 | 52 | 50 | 0.96 | 0.94 | 0.95 |
| GivenName | 53 | 52 | 52 | 1.00 | 0.98 | 0.99 |
| Volume | 53 | 45 | 43 | 0.96 | 0.81 | 0.88 |
| FirstPage | 51 | 51 | 50 | 0.98 | 0.98 | 0.98 |
| LastPage | 51 | 51 | 50 | 0.98 | 0.98 | 0.98 |
| Overall | 53 | 52 | 51 | 0.98 | 0.96 | 0.97 |

Table 1: Precision, Recall, F1 score values

The correctness of the result was evaluated with manual examination and identified that some values are wrongly predicted as source. This is because of the ambiguity that occurred between the source, title and author name.

4.2 Citation Classification

The confusion matrix showing the classification category is depicted in the following graph.

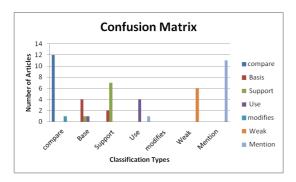


Figure 3: Confusion Matrix

From the analysis (figure 3), we saw that most citation was categorized as Compare. This is because in self citation the work is initially compared with previous work and the evolution of new work follows it. The second category is as expected mention category. Such articles can be exempted from citation count but the author working in the same domain cannot move to the next level without referring the problems related to the current issue. Such issues were evaluated in the content analysis part using semantic similarity and outlier detection techniques. The third highly classified category is Support. This pertains to the reality that most related articles of same author supports the cited articles. Very less articles were categorized as Base, Use, Modifies and Weak.

4.3 Sentiment Analysis:

The following graph shows the precision and recall of the positive and negative sentiment using SentiWordNet. A total of 52 cite sentences were examined, of which 5 citations were found to negative sentiment, 76% of sentences showed positive sentiment. This is because the author does not criticize themselves using explicit negative sentences.

| Tahle | 2. | Sentiment | Analysis | Score |
|---------------|----|-----------|----------|-------|
| <i>i</i> uoie | 4. | Semimeni | лпитуыз | score |

| Class | Positive | Negative | Neutral |
|------------------|----------|----------|----------|
| Predict Positive | 40 | 1 | 0 |
| Predict Negative | 1 | 5 | 0 |
| Predict Neutral | 3 | 0 | 1 |
| Total | 52 | 52 | 52 |
| Class Recall | 0.769231 | 0.28 | 0.019231 |
| Class Precision | 0.741935 | 0.518519 | 0.833333 |

4.4 Self Citation Quality Score Estimation

Table 3: SCQS Score

| S. No. | Article Id | SCQS | S. No. | Article Id | SCQS |
|--------|---------------|---------|--------|---------------|---------|
| 1 | A3 | 0.00452 | 15 | A60 | 0.22679 |
| 2 | A17 | 0.47439 | 16 | A61 | 0.28433 |
| 3 | A28 | 0.57558 | 17 | A67 | 0.22432 |
| 4 | A31 | 0.67213 | 18 | A69 | 0.62131 |
| 5 | A32 | 0.52421 | 19 | A70 | 0.10127 |
| 6 | A36 | 0.14895 | 20 | A72 | 0.43562 |
| 7 | A37 | 0.58307 | 21 | A73 | 0.27657 |
| 8 | A38 | 0.35917 | 22 | A74 | 0.23021 |
| 9 | A40 | 0.51925 | 23 | A75 | 0.02413 |
| 10 | A42 | 0.41932 | 24 | A76 | 0.37858 |
| 11 | A45 | 0.08731 | 25 | A77 | 0.67655 |

<u>10th November 2014. Vol. 69 No.1</u> © 2005 - 2014 JATIT & LLS. All rights reserved



ISSN: 1992-8645 E-ISSN: 1817-3195 www.jatit.org 26 12 A47 0.77801 A78 0.59955 27 0.27894 A79 0.50413 13 A48 28 14 A51 0.52115 A80 0.12439

Table 3 shows citation quality in terms of semantic citation quality score. Nearly 50 % of self citation quality is below average.

4.5 Graph Reduction

Figure 4 is the graphical representation of reduced author self-citation network. The directed edge starts at the cited article and ends at the citing article. The edge carries the citation quality score as weight.

| Table 4: Article and self citation | articles with SCQS |
|------------------------------------|--------------------|
|------------------------------------|--------------------|

| SI.No | Article Id | Citing Article ID | SCQS |
|-------|------------|-------------------|-----------|
| 1 | A17 | A18 | 0.2981937 |
| 2 | A17 | A29 | 0.6506 |
| 3 | A28 | A26 | 0.5458433 |
| 4 | A28 | A30 | 0.6053341 |
| 5 | A3 | A66 | 0.004526 |
| 6 | A31 | A54 | 0.5404161 |
| 7 | A31 | A71 | 0.8038475 |
| 8 | A32 | A36 | 0.5684659 |
| 9 | A32 | A70 | 0.4799559 |
| 10 | A33 | A32 | 0.5612969 |
| 11 | A36 | A25 | 0.7638528 |
| 12 | A36 | A73 | 0.488958 |
| 13 | A36 | A78 | 0.5593643 |
| 14 | A36 | A80 | 0.5958332 |
| 15 | A37 | A67 | 0.5830738 |
| 16 | A38 | A67 | 0.3591753 |
| 17 | A40 | A15 | 0.5192548 |
| 18 | A42 | A45 | 0.4193213 |
| 19 | A45 | A55 | 0.200565 |
| 20 | A45 | A62 | 0.200565 |
| 21 | A45 | A67 | 0.2619529 |
| 22 | A47 | A58 | 0.8419364 |
| 23 | A47 | A68 | 0.7140952 |
| 24 | A48 | A67 | 0.2789418 |

| - | | | |
|----|-----|-----|-----------|
| 25 | A51 | A58 | 0.5211516 |
| 26 | A60 | A67 | 0.2267947 |
| 27 | A61 | A9 | 0.2843367 |
| 28 | A67 | A18 | 0.191106 |
| 29 | A67 | A29 | 0.4486462 |
| 30 | A69 | A5 | 0.6213123 |
| 31 | A70 | A25 | 0.6960017 |
| 32 | A70 | A36 | 0.7808646 |
| 33 | A70 | A73 | 0.5056398 |
| 34 | A70 | A78 | 0.5039071 |
| 35 | A70 | A80 | 0.5063536 |
| 36 | A72 | A52 | 0.4164363 |
| 37 | A72 | A76 | 0.4548092 |
| 38 | A73 | A12 | 0.2330252 |
| 39 | A73 | A80 | 0.3201237 |
| 40 | A74 | A16 | 0.2365377 |
| 41 | A74 | A47 | 0.4718693 |
| 42 | A74 | A51 | 0.5346419 |
| 43 | A74 | A58 | 0.9208537 |
| 44 | A75 | A19 | 0.0241305 |
| 45 | A76 | A40 | 0.2981866 |
| 46 | A76 | A42 | 0.4589841 |
| 47 | A77 | A23 | 0.6765528 |
| 48 | A78 | A25 | 0.5995552 |
| 49 | A79 | A30 | 0.5041364 |
| 50 | A80 | A12 | 0.2211541 |
| 51 | A80 | A21 | 0.0276352 |
| | | | |

The network is initially reduced using threshold on CQS score. The threshold is set as dynamic by considering the average of all CQS scores obtained. The edges having CQS below the threshold is deleted.

 Table 5: Reduced Author Self Citations based on
 SCQS(refer Table 4)

| SI.No | Article Id | Citing Article ID |
|-------|------------|-------------------|
| 1 | A17 | A29 |
| 2 | A28 | A26 |
| 3 | A28 | A30 |
| 4 | A31 | A54 |
| 5 | A31 | A71 |

10th November 2014. Vol. 69 No.1

© 2005 - 2014 JATIT & LLS. All rights reserved

www.jatit.org

E-ISSN: 1817-3195

| 13 | SN: 199 | 02-8645 | |
|----|---------|---------|-----|
| ſ | 6 | A32 | A36 |
| | 7 | A32 | A70 |
| ſ | 8 | A33 | A32 |
| ſ | 9 | A36 | A25 |
| Ī | 10 | A36 | A73 |
| Ī | 11 | A36 | A78 |
| Ī | 12 | A36 | A80 |
| Ī | 13 | A37 | A67 |
| | 14 | A40 | A15 |
| Ī | 15 | A47 | A58 |
| Ī | 16 | A47 | A68 |
| | 17 | A51 | A58 |
| | 18 | A69 | A5 |
| | 19 | A70 | A25 |
| Ī | 20 | A70 | A36 |
| | 21 | A70 | A73 |
| | 22 | A70 | A78 |
| | 23 | A70 | A80 |
| Ī | 24 | A74 | A47 |
| ľ | 25 | A74 | A51 |
| ľ | 26 | A74 | A58 |
| ľ | 27 | A77 | A23 |
| ľ | 28 | A78 | A25 |
| ľ | 29 | A79 | A30 |

The reduced graph figure 4 shows certain unconnected nodes. The reduction resulted in removing edges that had CQS below threshold. The unconnected edges denote the citations which has less semantic similarity and citation effect of the cited article. Such articles are to be avoided while calculating the number of citations. The nodes in which edges are retained must be included in the citation count as they have quality citation to the cited article.

The nodes that are disjoint do not have quality citations nor do they possess significant improvements, hence can be ignored in citation count. However, few discrepancies can be avoided by measuring novelty [Sendhilkumar et al., 2013a & 2013b] of research papers. We thereby put forth a strong argument that self-citations need to be analysed qualitatively and should definitely be honored by including them in citation counts.

5. CONCLUSION

Though bibliometrics research has failed to include self citations as a measure for citation index, they play a vital role in quantitative side. This paper has well analysed the research problem and recommended the self-citations based on citation quality. However, inclusion of self-citation is still a double-edged sword in bibliometrics research. Including self-citations will not cause a negative impact on the citation count as long as the paper address the problem in previous publication (selfcited article) from a different approach, identifies a new problem from the article or proposes a new methodology for the problem solved in previous publication with better results.

It can be inferred that most of the self citations shows very little improvement in work compared to the cited reference. Blindly removing such citations will not be convincing. Combining novelty and citation quality will help to decide whether or not to include the self citations and which citations are to be retained for further evaluations.

REFRENCES:

- A.N. Langville and C.D. Meyer, "Google's PageRank and Beyond: The Science of Search Engine Rankings", Princeton Univ. Press, 2006, AAAI-99 Workshop on Machine Learning for Information Extraction, pp. 37-42, 1999.
- [2] Awais Athar, "Sentiment Analysis of Citations using Sentence Structure-Based Features",Proceedings of the ACL-HLT 2011 student session, portland, pp.81–87, june 2011.
- [3] Costas, R., van Leeuwen, T.N., & Bordons, M. (2010). Self-citations at the meso and individual levels: effects of different calculation methods *Scientometrics* (82), 517-537.
- [4] Diana C. Cavalcanti and Ricardo B. C. Prudêncio, "Good to be Bad? Distinguishing Between Positive and Negative Citations in Scientific Impact", 23rd IEEE International Conference on Tools with Artificial Intelligence, pp.156-162 2011.
- [5] Deepika J. and Mahalakhsmi G.S., Journal Impact Factor – A measure of quality or popularity? – in proc. of int. conf. IICAI spl session on Advances in Web Intelligence and Data Mining – December 2011 (2011a)
- [6] Deepika J. and Mahalakhsmi G.S., Comparative Evaluation of Text similarity Detection in Research Publications – in proc.

10th November 2014. Vol. 69 No.1 © 2005 - 2014 JATIT & LLS All rights res

| © 2005 - 2014 JA | III & LLS. | All rights reserved. | JATIT |
|--|---------------------|--|-------------------|
| ISSN: 1992-8645 | <u>vw.jatit.org</u> | E | E-ISSN: 1817-3195 |
| of int. conf. IICAI spl session on Advance Natural Language Computing – Decen | | Network Applications", Vol. 18 pp. 993-1021. | 8, No. 8 (2012), |
| 2011 (2011 b) [7] Deepika J., Archana V, Bagyalakshmi | | 5]G.S. Mahalakshmi, Dilip Sendhilkumar S., Mining Res | |
| Preethi P and Mahalakshmi G.S., Knowledge Based Approach to Detection | | for Exploration of Research ACM Compute 2012. – Decem | |

- [16]G.S. Mahalakshmi, S. Sendhilkumar, and S. Research Dilip Sam, "Refining Research Citations. Publications, International Journal on Internet and Distributed Computing Systems, Vol. 1, through Context Analysis", Intelligent Informatics, Advances in Intelligent Systems [8] Deepika J. and Mahalakshmi G.S., Towards and Computing, Volume 182, 2013, pp 65-71
 - [17]G.S. Mahalakshmi, S. Sendhilkumar, Optimising Research Progress Trajectories with Semantic Power Graphs, Springer LNCS, in proc. of PREMI 2013, Vol. 8251, pp 708-713.
 - [18] H. Nanba, N. Kando, and M. Okumura. "Classification of research papers using citation links and citation types: Towards automatic review article generation", 11th SIG Classification Research Workshop. Classification for User Support and Learning, pp.117-134, 2000.
 - [19] Henry H. Bi, Jiamusi Wang, and Dennis K.J. "Comprehensive Citation Index for L. Research Networks", IEEE Transactions on Knowledge And Data Engineering, Vol. 23, No. 8, August 2011.
 - [20] Hirsch JE, "An index to quantify an scientific research output,". individual's Proceedings of the National Academy of Science, vol.102, issue 46, pp.16569-16572, Nov 15 2005.
 - [21] Iain D. Craig, Andrew M. Plume, Marie E. Mc Veigh, James Pringle, Mayur Amin, Do open access articles have greater citation impact? A Criticla review of the literature, Journal of Informetrics, (1), 2007, 239-248.
 - [22] Isola Ajiferuke, Kun Lu, Dietmar Wolfram: A comparison of citer and citation-based measure outcomes for multiple disciplines. JASIST 61(10): 2086-2096 (2010)
 - [23] J. Deepika, G. S. Mahalakshmi, "Journal Impact Factor: A Measure of Quality or Popularity?"IICAI 2011, pp.1138-1157,2011a.
 - [24] J. M. Kleinberg, "Authoritative sources in a hyperlinked environment", Journal of ACM, Vol.46, No.5, pp.604–632, 1999.
 - [25] James H. Flower, Dag W. Aksnes, Does selfcitation pay?, Journal of Scientometrics (72), 2007, 427-437.
 - [26] L. Page, S. Brin, R. Motwani, and T. Winograd, "The PageRank Citation Ranking: Bringing Order to the Web," technical report,

automated? In Mary Elizabeth Stevens, Vincent E. Giuliano, and Laurence B. Heilprin, editors, Statistical Association Methods for Mechanized Documentation, Vol.269 of National Bureau of Standards Miscellaneous Publication, Washington, Symposium

Systems, Vol. 2, No. 1, 2012, pp. 102-108. [9] Eugene Garifield. Can citation indexing be

in

Knowledge based Impact Metrics for Open

Source Research Publications, International Journal on Internet and Distributed Computing

Online

Plagiarism

No. 2, 2011, pp. 51-61.

Idea

- Proceedings, pp.189-192, December 1965. [10] E .Garfield, "Journal impact factor: a brief
- review". CMAJ 1999, pp.979-980, 1999. [11]G.S. Mahalakshmi and S. Sendhilkumar, Automatic Reference Tracking System.
- Handbook of Research on Text and Web Mining Technologies, edited by Min Song and Yi-Fang Wu, Idea Group Inc., USA, Vol. II, Section IV, Chapter XXIX, pp. 483-499, 2008
- [12]G. S. Mahalakshmi, S. Sendhilkumar, Alagu Irulappan, Preetham Mirinda (2009), Ontology Based Relevance Analysis for Automatic Reference Tracking, International Journal of Computer Applications in Technology Special Issue (IJCAT): on Computer Applications in Knowledge-Based Systems, ISSN 0952-8091, Vol. 35, Nos. 2/3/4, pp. 165-173.
- [13]G.S. Mahalakshmi, S. Sendhilkumar, Alagu Irulappan, Preethan Mirinda, and Gnanasekaran, Comparative Evaluation Of Ontology-Based Automatic Reference Tracking, International Journal of Networking and Virtual Organizations (IJNVO): Special issue on Open source Intelligence and Web Mining, Inderscience Publishers, Vol. 8, No. 1 / 2, 2011, pp. 142-157.
- [14] G.S. Mahalakshmi, Dilip Sam S. and Sendhilkumar S., Establishing Knowledge Networks via Analysis of Research Abstracts, Special Issue of Journal of Universal Computer Science (JUCS) on "Advances on Social

<u>10th November 2014. Vol. 69 No.1</u> © 2005 - 2014 JATIT & LLS. All rights reserved[.]

| JATIT |
|-----------|
| |
| |

| 1992-8645 | www.jatit.org | E-ISSN: 1817-3195 |
|-----------|---------------|-------------------|
| | | |

Stanford Digital Library Technologies Project, [35 1998.

[27] Michael J. Moravcsik and Poovanalingan Murugesan. 1975. Some results on the function and quality of citations. Social Studies of Science, 5:88--91

ISSN:

- [28] S. Sendhilkumar and G.S. Mahalakshmi, Context based Citation Retrieval, International Journal of Networking and Virtual Organizations (IJNVO): Special issue on Open source Intelligence and Web Mining, Inderscience Publishers, Vol. 8, No. 1 / 2, 2011, pp.98-122.
- [29] S. Sendhilkumar, Dilip sam and Mahalakshmi G.S. Enhancement of Co-authorship networks with content similarity information, International Conference on Advances in Computing, Communications and Informatics, ICACCI, 2012, ACM digital library, pp.1225-1228.
- [30] S. Sendhilkumar, Mahalakshmi G.S., Harish S., Karthik R., Jagadish M. and Dilip Sam, Assessing Novelty of Research Articles using Fuzzy Cognitive Maps, Intelligent Informatics, Advances in Intelligent Systems and Computing, Springer, Vol. 182, 2013, pp.73-79.
- [31] S. Sendhilkumar, Nachiyar S. Nandhini and G.S. Mahalakshmi, Novelty Detection via Topic Modeling in Research Articles, in proceedings of International conference ICCSEA 2013, David C. Wyld (Eds) : ICCSEA, SPPR, CSIA, WimoA, SCAI - 2013, Vol – 3,pp. 401–410, 2013
- [32] S. Sendhilkumar, Elakkiya E. and G.S. Mahalakshmi, Citation Semantic Based Approaches to Identify Article Quality, in proceedings of International conference ICCSEA 2013, David C. Wyld (Eds) : ICCSEA, SPPR, CSIA, WimoA, SCAI - 2013, Vol - 3,pp. 411–420, 2013
- [33] Simone Teufel, Advaith Siddharthan, and Dan Tidhar "An annotation scheme for citation function", 7th SIGdial Workshop on Discourse and Dialogue,Sydney, Assosiation for Computational Linguistics. Pp.80-87, July 2006.
- [34] Simone Teufel, Advaith Siddharthan, and Dan Tidhar. "Automatic classification of citation function", 2006 Conference on Empirical Methods in Natural Language Processing (EMNLP 2006), Association for Computational Linguistics ,Sydney, pp. 103-110,July 2006.

- [35] Son Bao Pham, Achim Hoffmann, A New Approach for Scientific Citation Classification Using Cue Phrases, AI 2003: Advances in Artificial Intelligence, Lecture Notes in Computer Science Volume 2903, 2003, pp 759-771
- [36] Stefano Baccianella, Andrea Esuli and Fabrizio Sebastiani. SentiWordNet 3.0: An Enhanced Lexical Resource for Sentiment Analysis and Opinion Mining, In Proceedings of the Seventh International Conference on Language Resources and Evaluation, (LREC'10), Valletta, Malta, May 2010
- [37] W.B. Lievers, A.K. Pilkey, Characterizing the frequency of repeated citations: The effects of journal, subject area, and self citation, Journal of information Processing and Management (48), 2012, 1116-1123.
- [38] Y. Zhang, J. Callan, and T. Minka, "Novelty and redundancy detection in adaptive filtering," SIGIR '02 Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval, pp. 81-88, 2002.

Journal of Theoretical and Applied Information Technology 10th November 2014. Vol. 69 No.1

© 2005 - 2014 JATIT & LLS. All rights reserved

ISSN: 1992-8645

www.jatit.org

E-ISSN: 1817-3195

ANNEXURE:

Table 1. Articles and Self Citation Articles of Ying Dar Lin

| Article ID | Article |
|---------------|---|
| A1 | I-Wei Chen, Po-Ching Lin, Tsung-Huan Cheng, Chi-Chung Luo, Ying-Dar Lin, Yuan-Cheng Lai, Frank C. Lin: Extracting Ambiguous Sessions from Real Traffic with Intrusion Prevention Systems. I. J. Network Security 14(5): 243-250 (2012) |
| A2 | Ying-Dar Lin, Chia-Yu Ku, Yuan-Cheng Lai, Chia-Fon Hung: In-Kernel Relay for Scalable One-to-Many Streaming. IEEE MultiMedia (IEEEMM) 20(1):69-79 (2013) |
| A3 | Ying-Dar Lin, Po-Ching Lin, Tsung-Huan Cheng, I-Wei Chen, Yuan-Cheng Lai: Low-storage capture and loss recovery selective replay of real flows. IEEE Communications Magazine (CM) 50(4):114-121 (2012) |
| A4 | Ying-Dar Lin, Erica Johnson, Eduardo Joo: Network testing series [Series Editorial]. IEEE Communications Magazine (CM) 50(3):138-139 (2012) |
| A5 | Chun-Nan Lu, Ying-Dar Lin, Chun-Ying Huang, Yuan-Cheng Lai: Session Level Flow Classification by Packet Size Distribution and Session Grouping. AINA Workshops 2012:221-226 |
| A6 | Ying-Dar Lin, Chi-Heng Chou, Yuan-Cheng Lai, Tse-Yau Huang, Simon Chung, Jui-Tsun Hung, Frank C. Lin: Test coverage optimization for large code problems. Journal of Systems and Software (JSS) 85(1):16-27 (2012) |
| A7 | Ying-Dar Lin, Erica Johnson, Eduardo Joo: Topics in network testing. IEEE Communications Magazine (CM) 50(9):162 (2012) |
| A8 | Ying-Dar Lin, Chien-Chao Tseng, Cheng-Yuan Ho, Yu-Hsien Wu: How NAT-compatible are VoIP applications? IEEE Communications Magazine (CM) 48(12):58-65 (2010) |
| A9 | Ying-Dar Lin, Shun-Lee Chang, Jui-Hung Yeh, Shau-Yu Cheng: Indoor deployment of IEEE 802.11s mesh networks: Lessons and guidelines. Ad Hoc Networks (ADHOC) 9(8):1404-1413 (2011) |
| A10 | Cheng-Yuan Ho, Fu-Yu Wang, Chien-Chao Tseng, Ying-Dar Lin: NAT-Compatibility Testbed: An Environment to Automatically Verify Direct Connection Rate. IEEE Communications Letters (ICL) 15(1):4-6 (2011) |
| A11 | Cheng-Yuan Ho, Chien-Chao Tseng, Fu-Yu Wang, Jui-Tang Wang, Ying-Dar Lin: To Call or To Be Called Behind NATs is Sensitive in Solving the Direct Connection Problem. IEEE Communications Letters (ICL) 15(1):94-96 (2011) |
| A12 | Yi-Neng Lin, Ying-Dar Lin, Yuan-Cheng Lai, Che-Wen Wu: Highest Urgency First (HUF): A latency and modulation aware bandwidth allocation algorithm for WiMAX base stations. Computer Communications (COMCOM) 32(2):332-342 (2009) |
| A13 | Ying-Dar Lin, Szu-Hao Chen, Po-Ching Lin, Yuan-Cheng Lai: Designing and evaluating interleaving decompressing and virus scanning in a stream-based mail proxy. Journal of Systems and Software (JSS) 81(9):1517-1524 (2008) |
| A14 | Ying-Dar Lin, Ching-Ming Tien, Shih-Chiang Tsao, Ruo-Hua Feng, Yuan-Cheng Lai: Multiple-resource request scheduling for differentiated QoS at website gateway. Computer Communications (COMCOM) 31(10):1993-2004 (2008) |
| A15 | Shih-Chiang Tsao, Yuan-Cheng Lai, Le-Chi Tsao, Ying-Dar Lin: On applying fair queuing discipline to schedule requests at access gateway for downlink differential QoS. Computer Networks (CN) 52(18):3392-3404 (2008) |
| A16 | Yi-Neng Lin, Ying-Dar Lin, Yuan-Cheng Lai: Thread allocation in CMP-based multithreaded network processors. Parallel Computing (PC) 36(2-3):104-116 (2010) |
| A17 | Yi-Neng Lin, Ying-Dar Lin, Yuan-Cheng Lai: Thread allocation in CMP-based multithreaded network processors. Parallel Computing (PC) 36(2-3):104-116 (2010) |
| A18 | Po-Ching Lin, Ying-Dar Lin, Yuan-Cheng Lai: A Hybrid Algorithm of Backward Hashing and Automaton Tracking for Virus Scanning. IEEE Trans. Computers (TC) 60(4):594-601 (2011) |
| A19 | Ying-Dar Lin, Jui-Hung Yeh, Tsung-Hsien Yang, Chia-Yu Ku, Shiao-Li Tsao, Yuan-Cheng Lai: Efficient dynamic frame aggregation in IEEE 802.11s mesh networks. Int. J. Communication Systems (IJCOMSYS) 22(10):1319-1338 (2009) |
| A20 | Yuan-Cheng Lai, Ying-Dar Lin, Fan-Cheng Wu, Tze-Yau William Huang, Frank C. Lin: Embedded TaintTracker: Lightweight Run-Time Tracking of Taint Data against Buffer Overflow Attacks. IEICE Transactions (IEICET) 94- D(11):2129-2138 (2011) |

<u>10" November 2014. Vol. 69 No.1</u> © 2005 - 2014 JATIT & LLS. All rights reserved[.]

| | © 2005 - 2014 JATIT & LLS. All rights reserved | JAI |
|---------|--|----------------------------|
| SN: 199 | 2-8645 <u>www.jatit.org</u> | E-ISSN: 1817-31 |
| A21 | Yi-Neng Lin, Ying-Dar Lin, Yuan-Cheng Lai, Che-Wen Wu: Highest Urgency First (HU modulation aware bandwidth allocation algorithm for WiMAX base stations. Computer C (COMCOM) 32(2):332-342 (2009) | |
| A22 | Ying-Dar Jason Lin, Horng-Zhu Lai, Yuan-Cheng Lai: A Hierarchical Network Storage A Demand Services. LCN 1996:355-364 | Architecture for Video-on- |
| A23 | Joe Shang-Chieh Wu, Ying-Dar Lin: A novel pairing algorithm for high-speed large-scale Communications Letters (ICL) 4(1):23-25 (2000) | e switches. IEEE |
| A24 | Ying-Dar Lin, Ren-Kuei Yang, Chi-Chun Lo: Alarm correlation for congestion diagnosis 1996:624-627 | in ATM networks. NOMS |
| A25 | Ying-Dar Jason Lin, Wei-Ming Yin, Chen-Yu Huang: An Investigation into HFC MAC P Implementation, and Research Issues. IEEE Communications Surveys and Tutorials (COM | |
| A26 | Ying-Dar Jason Lin, Tian-Ren Huang, Yuan-Cheng Lai: Characterization and Control of in High-Speed Networks.LCN 1996:19-27 | Highly Correlated Traffic |
| A27 | I-Wei Chen, Po-Ching Lin, Chi-Chung Luo, Tsung-Huan Cheng, Ying-Dar Lin, Yuan-Ch Extracting Attack Sessions from Real Traffic with Intrusion Prevention Systems. ICC 200 | |
| A28 | Ying-Dar Jason Lin, Tzu-Chieh Tsai, San-Chiao Huang, Mario Gerla: HAP: A New Mode Arrivals. SIGCOMM 1993:212-223 | el for Packet |
| A29 | Ying-Dar Lin, Po-Ching Lin, Yuan-Cheng Lai, Tai-Ying Liu: Hardware-Software Codesi Signature-based Virus Scanning.IEEE Micro (MICRO) 29(5):56-65 (2009) | gn for High-Speed |
| A30 | Ying-Dar Jason Lin, Mario Gerla: Induction and Deduction for Autonomous Networks. If Areas in Communications (JSAC) 11(9):1415-1425 (1993) | EEE Journal on Selected |
| A31 | Ying-Dar Jason Lin, Yu-Ching Hsu: Multihop Cellular: A New Architecture for Wireless Communications. INFOCOM 2000:1273-1282 | |
| A32 | Ying-Dar Jason Lin: On IEEE 802.14 Medium Access Control Protocols. IEEE Commun Tutorials (COMSUR) 1(1) (1998) | ications Surveys and |
| A33 | Ying-Dar Jason Lin, Chia-Jen Wu, Wei-Ming Yin: PCUP: Pipelined Cyclic Upstream Pro Coax. INFOCOM 1997:1165-1173 | otocol over Hybrid Fiber |
| A34 | Yuan-Cheng Lai, Ying-Dar Lin, Wei-Che Yu, Yuh-Tay Lin: GMNF-DVMRP : A Modifie Vector Multicast Routing Protocol. ICCCN 1997:65-69 | ed Version of Distance |
| A35 | Yuan-Cheng Lai, Ying-Dar Jason Lin: Performance Analysis of Rate-Based Flow Control of Sources. Broadband Communications 1999:445-454 | l under a Variable Number |
| A36 | Wei-Ming Yin, Ying-Dar Lin: Statistically optimized minislot allocation for initial and co fiber coaxial networks. IEEE Journal on Selected Areas in Communications (JSAC) 18(9) | |
| A37 | Kuo-Kun Tseng, Ying-Dar Lin, Tsern-Huei Lee, Yuan-Cheng Lai: A Parallel Automaton Hashing and Root-Indexing Techniques for Content Filtering Coprocessor. ASAP 2005:1 | |
| A38 | Ying-Dar Lin, Kuo-Kun Tseng, Tsern-Huei Lee, Yi-Neng Lin, Chen-Chou Hung, Yuan-C based SoC design and implementation of scalable automaton matching for deep packet in: Systems Architecture (JSA) 53(12):937-950 (2007) | 0 |
| A39 | Po-Ching Lin, Ming-Dao Liu, Ying-Dar Lin, Yuan-Cheng Lai: An Early Decision Algorit Content Filtering. ICOIN 2006:833-841 | thm to Accelerate Web |
| A40 | Huan-Yun Wei, Shih-Chiang Tsao, Ying-Dar Jason Lin: Assessing and Improving TCP R Gateways. IEEE Trans. Computers (TC) 53(3):259-275 (2004) | ate Shaping over Edge |
| A41 | Huan-Yun Wei, Ching-Chuang Chiang, Ying-Dar Lin: Co-DRR: An Integrated Uplink an Bandwidth Management over Wireless LANs. IEICE Transactions (IEICET) 90-B(8):202 | |
| A42 | Ying-Dar Lin, Chih-Wei Jan, Po-Ching Lin, Yuan-Cheng Lai: Designing an Integrated Au Content Security Gateways.IEEE Computer (COMPUTER) 39(11):66-72 (2006) | rchitecture for Network |

<u>10^{err} November 2014. Vol. 69 No.1</u> © 2005 - 2014 JATIT & LLS. All rights reserved

| TITAL | |
|-------|--|
| | |

| SSN: 1992 | 8645 www.jatit.org | E-ISSN: 1817-319 |
|-----------|---|-------------------------|
| A43 | Kuo-Kun Tseng, Ying-Dar Lin, Tsern-Huei Lee, Yuan-Cheng Lai: Deterministic high-speed matching coprocessor for embedded network processor. SIGARCH Computer Architecture N 35(3):36-43 (2007) | |
| A44 | Ying-Dar Lin, Po-Ching Lin, Meng-Fu Tsai, Tsao-Jiang Chang, Yuan-Cheng Lai: kP2PADM Architecture for Managing P2P Traffic. IPDPS 2007:1-9 | 1: An In-kernel Gateway |
| A45 | Po-Ching Lin, Zhi-Xiang Li, Ying-Dar Lin, Yuan-Cheng Lai, Frank C. Lin: Profiling and ac matching algorithms in three network content security applications. IEEE Communications S (COMSUR) 8(1-4):24-37 (2006) | |
| A46 | Ying-Dar Lin, Ching-Ming Tien, Shih-Chiang Tsao, Ruo-Hua Feng, Yuan-Cheng Lai: Multi Scheduling for Differentiated QoS at Website Gateway. AINA 2008:433-440 | ple-Resource Request |
| A47 | Yi-Neng Lin, Yao-Chung Chang, Ying-Dar Lin, Yuan-Cheng Lai: Resource allocation in net network intrusion prevention systems. Journal of Systems and Software (JSS) 80(7):1030-10 | |
| A48 | Ying-Dar Lin, Kuo-Kun Tseng, Chen-Chou Hung, Yuan-Cheng Lai: Scalable Automaton M Deep Content Inspection. AINA Workshops 2007:858-863 | atching for High-Speed |
| A49 | Ching-Ming Tien, Cho-Jun Lee, Po-Wen Cheng, Ying-Dar Lin: SOAP Request Scheduling f Quality of Service. WISE Workshops 2005:63-72 | or Differentiated |
| A50 | Shih-Chiang Tsao, Yuan-Cheng Lai, Ying-Dar Lin: Taxonomy and Evaluation of TCP-Frien Schemes on Fairness, Aggressiveness, and Responsiveness. IEEE Network (NETWORK) 21 | |
| A51 | Yi-Neng Lin, Chiuan-Hung Lin, Ying-Dar Lin, Yuan-Cheng Lai: VPN Gateways over Netw Implementation and Evaluation.IEEE Real-Time and Embedded Technology and Application 2005;480-486 | |
| A52 | Huan-Yun Wei, Ying-Dar Jason Lin: A Survey and Measurement-Based Comparison of Ban Techniques. IEEE Communications Surveys and Tutorials (COMSUR) 5(2):10-21 (2003) | dwidth Management |
| A53 | Po-Ching Lin, Ming-Dao Liu, Ying-Dar Lin, Yuan-Cheng Lai: Accelerating Web Content Fi Decision Algorithm. IEICE Transactions (IEICET) 91-D(2):251-257 (2008) | iltering by the Early |
| A54 | Yu-Ching Hsu, Ying-Dar Lin: Base-centric routing protocol for multihop cellular networks. 162 | GLOBECOM 2002:158- |
| A55 | Tsung-Huan Cheng, Ying-Dar Lin, Yuan-Cheng Lai, Po-Ching Lin: Evasion Techniques: Sn Intrusion Detection/Prevention Systems. IEEE Communications Surveys and Tutorials (COM (2012) | |
| A56 | Yuan-Cheng Lai, Ying-Dar Jason Lin, Chih-Yu Chen, Huan-Yun Wey: Guaranteed versus C Implications for Service Subscribers and Providers in RSVP Networks. ICOIN 2001:487-494 | |
| A57 | Ying-Dar Lin, Po-Ching Lin, Meng-Fu Tsai, Tsao-Jiang Chang, Yuan-Cheng Lai: kP2PADM Architecture for Managing P2P Traffic. IPDPS 2007:1-9 | 1: An In-kernel Gateway |
| A58 | Yi-Neng Lin, Ying-Dar Lin, Kuo-Kun Tseng, Yuan-Cheng Lai: Modeling and analysis of co processors. ACM Trans. Embedded Comput. Syst. (TECS) 8(2) (2009) | re-centric network |
| A59 | Ying-Dar Lin, Ching-Ming Tien, Shih-Chiang Tsao, Ruo-Hua Feng, Yuan-Cheng Lai: Erratu request scheduling for differentiated QoS at website gateway". Computer Communications (31(17):4230 (2008) | |
| A60 | Kuo-Kun Tseng, Yuan-Cheng Lai, Ying-Dar Lin, Tsern-Huei Lee: A fast scalable automator for embedded content processors. ACM Trans. Embedded Comput. Syst. (TECS) 8(3) (2009 | |
| A61 | Ying-Dar Lin, Shiao-Li Tsao, Shun-Lee Chang, Shau-Yu Cheng, Chia-Yu Ku: Design issues studies of wireless LAN Mesh. IEEE Wireless Commun. (WC) 17(2):32-40 (2010) | s and experimental |
| A62 | Tsung-Huan Cheng, Ying-Dar Lin, Yuan-Cheng Lai, Po-Ching Lin: Evasion Techniques: Sn Intrusion Detection/Prevention Systems. IEEE Communications Surveys and Tutorials (COM (2012) | |
| A63 | I-Wei Chen, Po-Ching Lin, Chi-Chung Luo, Tsung-Huan Cheng, Ying-Dar Lin, Yuan-Cheng Extracting Attack Sessions from Real Traffic with Intrusion Prevention Systems. ICC 2009:1 | |

<u>10^{err} November 2014. Vol. 69 No.1</u> © 2005 - 2014 JATIT & LLS. All rights reserved

| yу | TITAL | |
|----|-------|--|
| | | |

| SSN: 1992 | -8645 <u>www.jatit.org</u> | E-ISSN: 1817-319 |
|-------------|---|-------------------------------|
| A64 | Ying-Dar Lin, Po-Ching Lin, Yuan-Cheng Lai, Tai-Ying Liu: Hardware-Software Code Signature-based Virus Scanning.IEEE Micro (MICRO) 29(5):56-65 (2009) | esign for High-Speed |
| A65 | Ying-Dar Lin, I-Wei Chen, Po-Ching Lin, Chang-Sheng Chen, Chun-Hung Hsu: On can designs, operational experience, and top product defects. IEEE Communications Magaz (2010) | |
| A66 | Chia-Yu Ku, Ying-Dar Lin, Yuan-Cheng Lai, Pei-Hsuan Li, Kate Ching-Ju Lin: Real tr environment emulation.WCNC 2012:2406-2411 | affic replay over WLAN with |
| A67 | Po-Ching Lin, Ying-Dar Lin, Yuan-Cheng Lai, Yi-Jun Zheng, Tsern-Huei Lee: Realizir Matching Algorithm With a Hardware Accelerator Using Bloom Filters. IEEE Trans. V 17(8):1008-1020 (2009) | |
| A68 | Yi-Neng Lin, Ying-Dar Lin, Yuan-Cheng Lai: Thread Allocation in Chip Multiprocesso Network Processors. AINA 2008:718-725 | or Based Multithreaded |
| A69 | Chun-Nan Lu, Chun-Ying Huang, Ying-Dar Lin, Yuan-Cheng Lai: Session level flow c distribution and session grouping. Computer Networks (CN) 56(1):260-272 (2012) | elassification by packet size |
| A70 | Ying Dar Lin, Chen Yu Huang, Wui-Ming Yin: Allocation and Schleduling Algorithms for hybrid Fiber Coaxial Networks, IEEE Transactions on Broadcasting 44(4):427-435 | |
| A71 | Ying-Dar Lin, Yu-Ching Hsu, Kuan-Wen Oyang, Dong-Su Yang, Tzu-Chieh Tsai, "Mu LANs: A Prototype Implementation," Journal of Communications and Networks, 2(4), 1 | |
| A72 | Ming-Wei Wu, Ying-Dar Jason Lin: Open Source Software Development: An Overview (COMPUTER) 34(6):33-38 (2001) | v. IEEE Computer |
| A73 | Wei-Ming Yin, Chia-Jen Wu, Ying-Dar Lin, "Two-phase Minislot Scheduling Algorith Provisioning," IEICE Transactions on 12 Communications, E85-B (3) March(2002). | m for HFC QoS Services |
| A74 | Ying-Dar Lin, Yi-Neng Lin, Shun-Chin Yang, Yu-Sheng Lin: DiffServ over Network P and Evaluation. Hot Interconnects 2002:121-126 | rocessors: Implementation |
| A75 | Lin, Y. and W.S. Wong, V." Frame Aggregation and Optimal Frame Size Adaptation for Proc. of IEEE Global Telecom. Conf. (2006). | or IEEE 802.11n WLANs." in |
| A76 | Ying-Dar Jason Lin, Huan-Yun Wei, Shao-Tang Yu: Building an Integrated Security G Performance Evaluations, Implementations, and Research Issues. IEEE Communication (COMSUR) 4(1):2-15 (2002) | |
| A77 | Joe Shang-Chieh Wu, Ying-Dar Lin: An efficient and orderly implementation of bypass traffic. Parallel Computing (PC) 24(14):2143-2148 (1998) | s queue under bursty |
| A78 | Wei Ming Yin, Chia Jen Wu, Ying Dar Lin:Two-Phase minislot Scheduling Algorithm Provisioning, In Global Telecommunications Conference, 1,410-414,(2001) | for HFC QoS Services |
| A79 | Mario Gerla, Ying-Dar Lin: Network management using database discovery tools. LCN | |
| A8 0 | Yi-Neng Lin, Shih-Hsin Chien, Ying-Dar Lin, Yuan-Cheng Lai, Mingshou Liu : DYNAM ALLOCATION FOR 802.16E-2005 MAC, In Current Technology Developments of W (2009) | |

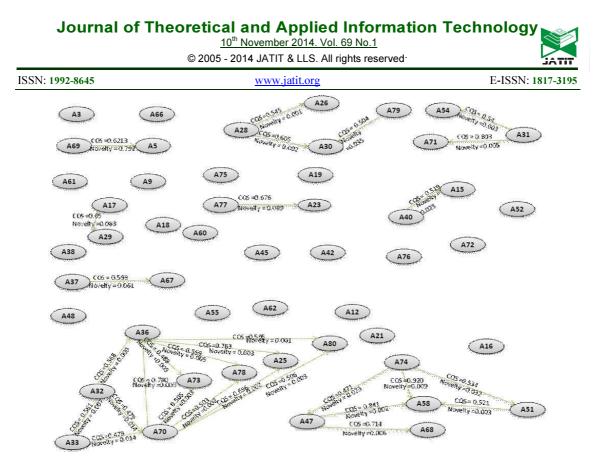


Figure 4: Reduced Author Self Citation Network based on SCQS