Assignment 4

1. Consider a paper $x_1$ with its list of references given in figure 1(a). Find out the Reference Diversity Index (RDI) of this paper.

2. Consider a paper $x_2$ with its list of citing papers given in 1(b). Find out the Citation Diversity Index (CDI) of this paper.

References:

1. On Extremal Set Partitions in Cartesian Product Spaces
   - algorithms_and_theory

2. The Sandwich Theorem
   - algorithms_and_theory

3. An evolutionary autonomous agents approach to image feature extraction
   - algorithms_and_theory

4. Smooth Object Retrieval using a Bag of Boundaries
   - algorithms_and_theory

5. A Peptide Filtering Relation Quantiles MHC Class II Peptide Optimization
   - bioinformatics_and_computational_biology

6. The 0008 Path Method Generator (PMG) Using Access Weights and Precomputed Access Relevance
   - databases

7. A dichotomy theorem for learning quantified Boolean formulas
   - machine_learning_and_pattern_recognition

8. Experiments with subdivision of coarsen in distributed theorem proving
   - distributed_computing_and_parallel_computing

9. Modeling skin and aging phenotypes using latent variable models in infer.NET
   - machine_learning_and_pattern_recognition

10. Computer Productivity Initiative
    - computer_education

11. XP/PR Design Considerations
    - computer_education

12. Teaching Parallel Computing to Freshmen
    - computer_education

(a)

Figure 1: (a) list of references of paper $x_1$ and (b) List of citing papers of $x_2$


(a) Calculate the average citeX of $y_1$ for the year 2005.

(b) Calculate the average citeWords of $y_1$ for the year 2004.

Citation contexts:

Z2: Ultramet has been presented in previous works [16] but current IT's implementation shows major improvements: (1) adds MyNet support, (2) optimizes I/O sockets instead of NIO sockets in order to extend its applicability, (3) avoids the need of primitive datatypes array serialization, (4) reduces even more buffering and unnecessary copies and (5) adds an optimized shared memory protocol.

Z2: Moreover, they are a good estimate for JVM sockets performance, as they show similar results [16].

Z2: The result within this project is a Java communication middleware transparent to the user, interoperable with other systems, does not need source code modification and does widely spread APIs (Java sockets and Java RMI) [16]. That consists off:

https://onlinecourses.nptel.ac.in/noc16_cs20/objective?name=39
Z3: Motivations for ASIPs: there are many reasons for the emergence of ASIPs as an important new
design style in integrated circuit design (Ye).

Z4: The work described by (Ye) as well as that by (Yk) are also steps in the right direction.

Z5: While we have previously addressed partial occlusion adjacent to regions of complete occlusion (Ye),
this work describes an extension to handle regions of partial occlusion without corresponding regions of
complete occlusion.

Z6: In both these methods, as in our previous work (Yk), it's assumed that there is some region of the
image in which only the foreground is present.

Z7: In (Yk) it was shown that it is possible to remove the partial occlusion when the location and width of
the partially occluded region are found by a user.

Z8: In the current paper we present an automated solution to this vision task for severely blurred
occluding objects and in doing so significantly extend the applicability of the method in (Ye).

Z9: In (Yk) it was shown that the well-known matting equation,

Z10: From d and the width w of the partially occluded region, the value is well-approximated by (Yk).

Z11: This can be done if the user supplies both w and the boundary between regions complete and partial
occlusion, as in (Yk).

Z12: This example, the partial occlusion is due to the handle of a fork directly in front of the authors of (Yk);
the authors of (Yk) have made this image available to the public.

Z13: Once the blur width is estimated, the method of (Yk) is used to remove the partial occlusion
without inpainting.

Figure 2: The list of citation contents of Yk. Note the citations to Yk are
mentioned in the contents as (Yk), while citations to other papers are represented
by integers.

Your Submission:

Due Date Exceeded.
As per our records you have not submitted this assignment.