

Master of Computer and Information Sciences

Assessment 1 – Research Report



Paper: Data Warehousing and Big Data

Paper Code: COMP810

Semester-2, 2015

Weight in your final grade: 20%

Note: To pass the paper, student needs to attempt both assessments and obtain a C- grade overall.

1. Assessment tasks

Each student has to write an individual research report on a topic from the given topics list.

2. Topics

Following is the list of all topics. To know which topic is assigned to you please visit assessments section at autonline.

1. Real-time Data Integration/DW
2. Data Stream Processing in DW
3. Parallel Processing of Stream Data
4. Stream Joins in Big Data
5. DW Schema Design and Optimizations
6. OLAP Query Processing and Optimizations
7. Role of DW in BI
8. Research Issues/Challenges in DW/RDW
9. Grid Cloud Computing and DW
10. Big Data and Management/Analytics
11. Real-time Processing or Mining of Social Big Data
12. The Age of the Big Data
13. Big Data: Issues and Challenges

3. Layout for research report

The research report shall include:

- title
- abstract
- introduction
- background/motivation
- related work (from peer-reviewed sources)
- your opinion – how to extend this work
- conclusions
- future issues
- references

4. General guidelines

- Must be individual work.
- 6 pages in 2 columns IEEE proceedings format – the word template is available at autonline.
- Minimum 6 full, consistent electronic references from peer reviewed sources.
- References must be clickable in the document (important for efficient marking).
- “Your opinion” section is very important part of the report. In this section you will present your own thoughts about the existing work(s). Based on that you will give your opinion that how the existing work can be improved further. This section should consists of at least one page.
- For your convenience a sample of research report is available on the course page under assessment link.

5. What to submit

Research report:

1. Word file
2. PDF file

Note: the above both files need to submit in a zipped folder named by your family name and student ID e.g. John-12345.

6. When to submit

Due date: **Friday, 18th Sep 2015**

Late penalty: maximum late submissions time is 24 hours after due date. In this case late penalty will be applied.

7. Who to submit

All assessments should be submitted through autonline.

NOTE: If you are using any material in the assessment which is not your own please do refer the original source.

All assessments will be assessed through turnitin system and in case of Plagiarism the University policy against plagiarism will be applied.

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Marking guide for research report

Report Component	Marks (indicative)
An appropriate title of the report	/5
Abstract	/10
The abstract should be one paragraph and it should cover the whole theme of the report.	
Introduction	/10
The introduction part should introduce the topic and its importance. It should also include at least one diagram related to the topic. One page is sufficient for this section.	
Background/motivation	/10
Background is important to understand the topic in depth while motivation presents the importance of the topic statement of objectives and/or hypothesis. One page is sufficient for this section.	
Related work/literature review	/15
Related work should comprise the review of current state of knowledge on the topic. It should demonstrate the relevance to the topic. Page length is 1 to 2.	
Your opinion	/20
This is an important section in which the student will criticise the existing work and will present his/her own opinion about how to improve it further?	
Conclusion	/10
In this section student will draw the conclusion on the given topic. In other words it is a brief summary about the topic.	
Future issues	/10
This section should discuss at least two future issues on the topic.	
References	/10
All references should be of peer-reviewed journal and conferences. They must be clickable in the document. Each report should include at least 6 peer-reviewed references.	
Late submission penalty	-/5
TOTAL MARKS	/100