

# Databases and Data Mining

## *Databases Assignment 1*

10-9 2009

**Due:** Tuesday 22-9 2009

**Grading:** This assignment will be graded either *insufficient* or *good*.

**Notes:**

- Write down your answers to this assignment in a *.txt* file with the following name “<*your student number*><*your name*>\_1.txt”, e.g., “012345janjansen.txt”.
- Send this *.txt* file as an attachment of an e-mail with subject “DBDM\_1” to [erwin@liacs.nl](mailto:erwin@liacs.nl).
- Do not use more than 1 A4 (font size 10 pt) for your answers.
- Grading will be based on the **argumentation**, **novelty** and **clarity** of your exposition!

1. Find the pdf of the following article, and read it.

- J. Gray, *The Next Database Revolution*. SIGMOD 2004, pp. 13-18, June 2004.

Also find a more recent (2007 and onwards) article that describes a vision on the future of database and/or data mining technology, read it and give the reference.

**Note:** If you have a blackboard account for Leiden University you can go to [www.liacs.nl](http://www.liacs.nl) and select <Bibliotheken>. On the <Bibliotheken> web page you can select <Digitale Bibliotheek> which will lead you to the Digital Library page of the university. Here you will be able to login and browse the list of electronic journals using your black board account. **Students from Delft will have to use their own TUD digital library or team up for this part of the assignment with a student from Leiden.**

2. Give your vision on the future of database and/or data mining technology. Make a list of the three most important novel database and/or data mining research areas for the coming 10 years. Mention at least one area that is not reported in the two articles that you had to read in item 1. Give for each research area on your list a short argumentation why you think this will be an important area, and what the main challenges will be.