DATABASE SYSTEMS GROUP

Ludwig-Maximilians-Universität München
Institut für Informatik
Lehr- und Forschungseinheit für Datenbanksysteme

Hauptseminar

Mining Volatile Data

Wintersemester 2012/13

Dr. Eirini Ntoutsi

September 19, 2012 kick-off meeting

http://www.dbs.ifi.lmu.de/cms/Hauptseminar_"Mining_Volatile_Data"_WS1213

- Schedule

- ECT points & requirements

- Grading

- Registration

- Papers & paper assignment

- Late arrivals

Schedule

- Scheduled meetings

  – Wednesdays, 12.00-16.00, Room 161 (Oettingenstr. 67)

- Kick-off meeting: September 19 (today)

- Paper preferences: September 19 – September 20

- Paper assignment: September 21

- Paper preparation

  – end September - November

- Presentations

  – November (a detailed schedule will be announced after the assignment phase)

- ECT points:

  - Participation is equivalent to 6 ECTS credits.

  - The seminar is for both Master and Diploma students.

- Requirements:

  1. an oral presentation

  2. a short summary

  3. an active attendance during the whole seminar

Further information I

- Each student presents a paper.
  - Understand your paper and other related literature.
  - Prepare a 25 minutes talk that will introduce the problem and the proposed solution to your fellow students.
  - Each presentation is followed by 10 minutes discussion/ questions. You should be able to answer to the questions and discuss about pros/cons of the paper.
  - Use your own slides. Both presentation and slides must be given in English.
  - Contact me until the Friday before your talk with an intended outline of your talk!

- Each student prepares a short summary about his/her paper.
  - About the problem, the proposed solution, experimental findings, pros and cons of the solution, open issues.
  - 1-5 pages long.
  - The summary should be in English.
  - You must send me the summary one week after your oral presentation!

- All students actively participate in the discussions after the paper presentations.

- After the presentation and the submission of the summary, there is a final meeting with me to receive feedback on your talk and summary.

- If you have some problem with the paper, contact me to arrange some meeting to discuss about.

- The final grade is influenced by the following factors:

    – Your oral presentation

    – Your knowledge about your topic (based on the discussion after the presentation)

    – Your general participation in the seminar

    – Your written short summary.

- You have to sign up in UniWorx for the seminar.
  - Link: https://uniworx.ifi.lmu.de/?action=uniworxCourseWelcome&id=99

- **Topic detection:**

  [1] Discovering evolutionary theme patterns from text: an exploration of temporal text mining

  [2] Discovering Geographical Topics In The Twitter Stream

  [3] Topic sentiment mixture: modeling facets and opinions in weblogs

- **Sentiment analysis:**

  [4] Sentiment Knowledge Discovery in Twitter Streaming Data

- **Community detection:**

  [5] A framework for community identification in dynamic social networks

  [6] Microscopic evolution of social networks

  [7] Finding and evaluating community structure in networks

  [8] SCAN: A Structural Clustering Algorithm for Networks

- **Outliers & Events:**

  [9] Integrating Community Matching and Outlier Detection for Mining Evolutionary Community Outliers

  [10] Event Detection in Social Streams

  [11] On the Spatiotemporal Burstiness of Terms

- **Change detection & Evolution Monitoring:**

  [12] Temporal Structure Learning for Clustering Massive Data Streams in Real-Time

  [13] Tracing Evolving Clusters by Subspace and Value Similarity

- Send an email to ntoutsi@dbs.ifi.lmu.de till September 20, with

    – your name

    – your matrikelnummer

    – your favorite 3 papers in ranked order (e.g., 5, 3, 9)

- Paper assignment will be posted online on September 21.

- For those that will not send and email with their paper preferences till September 20.

    - You can register in UniWorx till October 15.

    - If there are still unassigned papers, contact me with your preferred papers to make an assignment.

Thank you!

Questions?