

MARCH

6

Thursday

065-300 • WK 10

30.7.2020

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FEBRUARY 2014

## M20Temp13 ADVANCES IN DATA SYSTEMS

taught by: prof. Krishna reddy P

### 11. COURSE TOPICS

- 12 • about 25 research papers related to relational database engine
- 1 • distributed database engine
- 2 • efficient / scalable retrieval
- 3 • stream processing
- 4 • NoSQL
- 5 • map-reduce
- 6 • graph-databases
- database integration
- web services.

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30.7.2020

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MARCH

Friday

WK 10 • 066-299

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## REFERENCES

- 9 • papers from SIGMOD, VLDB, ICDE, IDAR, and database journals
- 10
- 11 • readings in database systems, 5th edition; Peter Bailis, Joseph M Hellerstein, Michael Stonebraker
- 12
- 1 • Gray J and Reuter A; Transaction processing: concepts and techniques; Morgan Kaufman (1993).
- 2 • database system implementation by Hector Garcia-Molina, Jeff Ullman, Jennifer Widom.
- 3
- 4 • database system concepts; Abraham Silberschatz, Henry F Korth, S Sudarshan
- 5 • database management systems by raghu ramakrishnan, johannes gherke
- 6

## LIST OF RESEARCH PAPERS

- EF Codd; a relational model of data for large shared data banks; ~~ACM~~
- System R; relational approach to database management; ~~ACM~~
- Jeffrey Dean, Sanjay Ghemawat; map reduce: simplified data processing on large clusters 2014

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Saturday

067-298 • WK 10

30.7.2020

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FEBRUARY 2014

- michael stonebraker, daniel j abadi, adam batkin, xuedong chen, mitch cherniack, miguel ferreira, edmond law, amenson lin, samuel madden, elizabeth j o'neil, patrick E O'neil, alex rasin, nga tran, stanley B zdonik; G-Store: a column oriented DBMS.
- david J dewitt, shahram ghandehazadeh, donovan A schneider, allan bricker, hui I hisao, rick rasmussen the gamma database machine project.
- the new casper: query processing for location services without compromising privacy
- adaptive push-pull: disseminating dynamic web data
- speculative locking protocols to improve performance for distributed database systems.
- brewer's conjecture, and the feasibility of consistent, available, partition-tolerant web services.
- lecture of on BIG DATA, SQL, DATA SCIENCE
- a primitive operator for similarity joins in data cleaning
- Sequential dependencies.
- research directions in blockchain data management and analytics.

2014



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30.7.2020

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MARCH

Monday

WK 11 • 069-296

10

• the skyline operator

• human-in-the-loop data integration.

• finding motifs in time series

• optimal aggregation algorithms for middleware

• a survey of top-k query processing techniques in relational database systems

• pregel: a system for large scale graph processing.

• provenance management in curated databases.

• automatic extraction of useful facet hierarchies from text databases.

• bdbms - a database management system for biological data.

• maximum visibility queries in spatial databases.

• ecotop: an economic model for dynamic processing of top-k queries in mobile P2P networks.

• efficient community recreation in multilayer networks using boolean operations.