

Inf-3701/Inf-8701 - Advanced database systems

Required Reading

Books/ chapters:

- [1] Silberschatz, Korth, Sudarshan, *Database System Concepts*, 7th Edition, McGraw-Hill, 2020, ISBN 978-1-260-08450-4.
Chapters 8.1-8.3, 10-11, 20-21, 31
Chapter 22: 22.1 and 22.9,
Chapter 23: 23.1-23.3.2, 23.4 - 23.6
- [2] Harrison, Guy, *Next Generation Databases*, Apress, 2015
Chapters 1-12
- [3] Özsu, Valduriez, *Principles of Distributed Database Systems*, 4th Edition, Springer Verlag, 2020.
Chapters 7.1-7.2.2, 11

Papers:

- [4] Abadi, D., et.al. 2016. The Beckman report on database research. *Commun. ACM* 59, 2 (January 2016), 92-99. DOI=<http://dx.doi.org/10.1145/2845915>
- [5] Mohan, History Repeats Itself: Sensible and NonsenSQL Aspects of the NoSQL Hoopla, Proceedings of the EDBT/ICDT '13, March 18–22, 2013, Genoa, Italy
- [6] Pavlo, Andrew, and Matthew Aslett. "What's Really New with NewSQL?." *SIGMOD Record*, June 2016 (Vol. 45, No. 2)
- [7] Noura, M., et.al. Interoperability in Internet of Things: Taxonomies and Open Challenges, *Mobile Networks and Applications* (2019), 24:796-809, Springer.

Lectures: All handouts from lectures.