

Welcome to **Database Systems – CO2013**

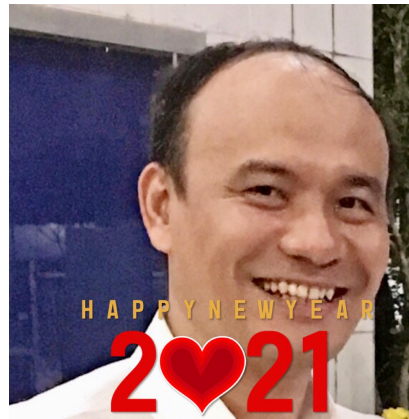
Assoc. Prof. Dr.techn. DANG TRAN KHANH

(Đặng Trần Khánh)

khanh@hcmut.edu.vn

Lecturers

- Assoc. Prof. Dr. Dang Tran Khanh
 - E-Mail: khanh@hcmut.edu.vn
 - URL: <http://www.cse.hcmut.edu.vn/~khanh>
 - Office hours: by email
 - Facebook: <https://www.facebook.com/dang.ssolutions>

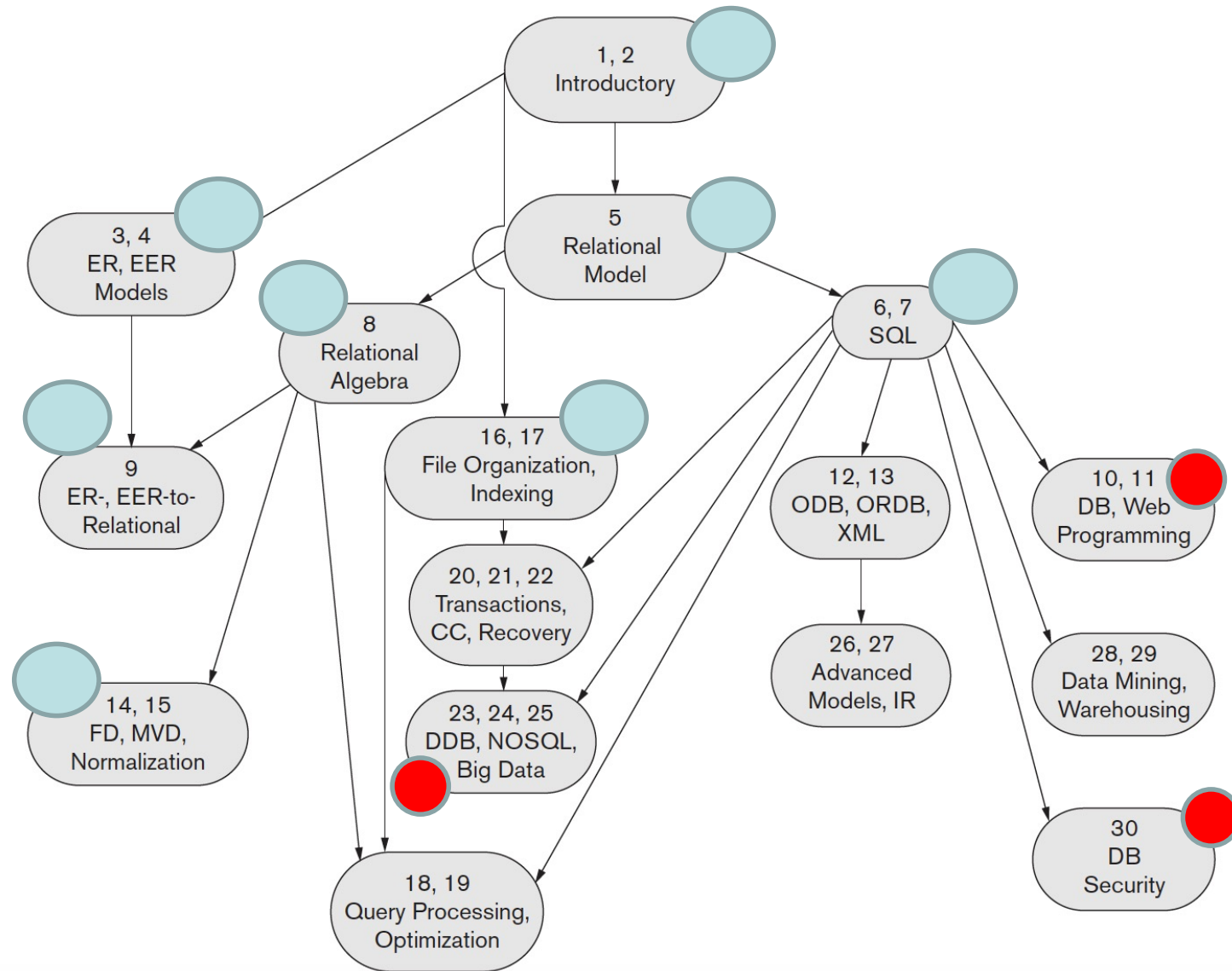


- Tutors: Dr. Nhan, Mr. Nam, Mr. Thai

Module Contents

- Credits: 4(3.2.8)
- W1,2: Administrative Issues + Database System Concepts & Architecture
- W2,3,4: Entity-Relationship Model
- W5,6: Relational Model & Mapping
- W7,8: Structured Query Language (SQL)
- W9: Database Design Theory & Methodology
- W10: Data Storage, Indexing, Query Processing & Physical Design
- W11: Introduction to Database Security
- W12: Big Data Concepts & Applications
Revision & Related Research Directions

Module Contents

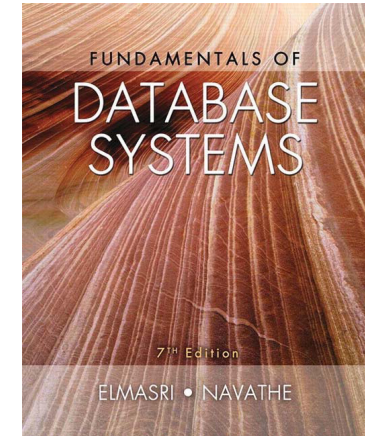


Assessments

- All **open**-book-exams*
- Assign 1: 10%
- Assign 2: 20%
- Presentations: 20% (2 x 10%)
- Final exam: 50%
 - 90': test (multiple choices) & small exercises
 - Contents: to be revised in the last week of teaching
- **Bonus:** unlimited % !

Core Textbook

- [1] R. Elmasri & S.B. Navathe (2016):
Fundamentals of Database Systems, 7th
Edition, Addison-Wesley



Other references:

- [2] A. Silberschatz, H. F. Korth, S. Sudarshan
(2019): *Database System Concepts*, 7th Ed., McGraw-Hill
- [3] Internet

Teaching Schedule

- See my HP for the details
 - <http://www.cse.hcmut.edu.vn/~khanh/>

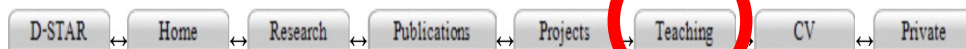
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I got my first degree, Engineer in Information Technology, from HCMC University of Technology (HCMUT) in December 1997 and had been working for the [Faculty of Information Technology](#) until March 2000. Then I was awarded a PhD scholarship from the Austrian Exchange Service (ÖAD) and had been studying at the Institute for Applied Knowledge Processing (FAW), [University of Linz](#), until May 2003 under the supervision of [Prof. Dr. Roland Wagner](#) and [A.Prof. Dr. Josef Küng](#). My PhD research topic related to "[semantic-based similarity searches in database systems](#)". I received the PhD degree in Computer Science in May 2003.

Since August 2003, I moved to London to work for the [School of Computing Science, Middlesex University](#) as a senior lecturer and [Global campus](#) link tutor between HCMUT and Middlesex University. I was affiliated with Business Information Systems (BIS) group at Hendon campus.

In October 2005 I returned home, and has been working at the [Faculty of Computer Science & Engineering](#) in [HCMUT](#). Early in 2006, I did set up D-STAR Lab - Data Security Applied Research Lab - at the faculty. I was promoted to Associate Professor of Computer Science in 2010.

My [research interests](#) span database/information systems security & privacy, data management, and smart device security & applications. See my publication list [here](#).

Teaching Schedule

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Classes (since 10/2005)

- [My postgrad students](#)
- **Semester 1, 2021/2022**
 1. [CO2013 - Database Systems \(High Quality Program-HCMUT\)](#) (English)
 2. [Fundamental Concepts of Data Security \(Data Science Program, IU\)](#) - invited lecturer (English)
- **Semester 2, 2020/2021**
 1. [CO5226 – Database Security \(Master - IMP\)](#) (English)
 2. [CO5240 - Data Engineering \(Master-CS\)](#)

Other Notes

- Mobile: off or vibration mode
- Question: any time
- Presentation:
 - English, by group
 - Mandatory in this class (2 times each & 1 seminar)
 - Bonus marks to be added for good solutions to exercises, additional presentations, etc.
 - Topics: students can propose more topics related to DBs/ISs (**not only confined to the lecture contents**) for bonus marks !

Q&A

Question ?