

Information Management II

CSU 34041

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Course Overview

- 12 Week Course
 - Monday 13:00-14:00 L2.15(TBSI)
 - Wednesday 16:00 – 18:00 2043(Arts Building)

Course Overview

- Assessment
 - Exam (75%)
 - Continuous Assessment (25%)
 - Weekly SQL task – each worth 2.5%



Course Outline

- Information Design & Modelling:
 - Relational Data Model & Algebra; Entity Relational Modelling, Mapping to RDBMs, Design Optimisation and Database Applications. DB Constraints
- System Engineering:
 - DB Security; Transaction Processing; Transactions & Concurrency Control; Recovery; Web Databases and Emerging Database Technologies e.g. NoSQL
 - General Data Protection Regulations & Data Governance.

Course Layout

1. Introduction to Databases
2. Database Architectures
3. Database Models
4. Relational Algebra for Data Manipulation
5. Designing Databases: The Entity Relationship (ER) approach
6. Designing Databases: Mapping from ER to Relations
7. Design Optimisation (Normalisation & Functional Dependency)
8. Weak Entities and Enhanced ER Modelling
9. Database Constraints
10. Database Security
11. Transactions and Concurrency Control
12. NoSQL
13. GDPR

Recommended Reading

- Database Systems: Models, Languages, Design and Application Programming
 - Elmasri & Navathe
 - ISBN-10: 0132144980 | ISBN-13: 9780132144988 | Edition: 6th edition



Yvette Graham

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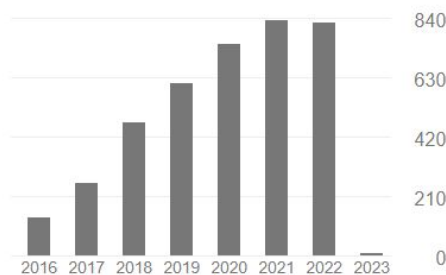
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<input type="checkbox"/>	Findings of the 2016 conference on machine translation O Bojar, R Chatterjee, C Federmann, Y Graham, B Haddow, M Huck, ... Proceedings of the First Conference on Machine Translation: Volume 2, Shared ...	613	2016
<input type="checkbox"/>	Findings of the 2019 conference on machine translation (WMT19) L Barrault, O Bojar, MR Costa-Jussa, C Federmann, M Fishel, Y Graham Association for Computational Linguistics (ACL)	535	2019
<input type="checkbox"/>	Results of the WMT17 Metrics Shared Task O Bojar, Y Graham, A Kamran Proceedings of the Second Conference on Machine Translation, Volume 2 ...	241 *	2017
<input type="checkbox"/>	Results of the wmt16 metrics shared task O Bojar, Y Graham, A Kamran, M Stanojević Proceedings of the First Conference on Machine Translation: Volume 2, Shared ...	487	2016
<input type="checkbox"/>	Can machine translation systems be evaluated by the crowd alone Y Graham, T Baldwin, A Moffat, J Zobel Natural Language Engineering 23 (1), 3-30	153	2017
<input type="checkbox"/>	Continuous measurement scales in human evaluation of machine translation	136	2013

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