

Plano de Ensino – 2023/2

Código	DCC030 / DCC049 / DCC831
Disciplina	TCC / TSI / TECC: SISTEMAS DE RECOMENDAÇÃO
Turma	
Professor	Rodrygo Luis Teodoro Santos

Pré-requisito: DCC205 - Estruturas de Dados

Ementa: The focus of this course is on the design, implementation, and evaluation of recommender systems.

Programa

Class	Date	Content	Activities
1	qua. 16/08	Introduction	
2	seg. 21/08	Characterization	
3	qua. 23/08	Non-personalized collaborative filtering	> RC1
4	seg. 28/08	Nearest neighbor collaborative filtering	
5	qua. 30/08	Evaluation methods	
6	seg. 04/09	Evaluation metrics	
7	qua. 06/09	Matrix factorization	
8	seg. 11/09	Implicit matrix factorization	
9	qua. 13/09	Restricted Boltzmann machines	
10	seg. 18/09	Multi-armed bandits	
11	qua. 20/09	Exam #1	
12	seg. 25/09	RC1 development (off-class)	< RC1
13	qua. 27/09	RC1 presentations	
14	seg. 02/10	Content-based recommendation	
15	qua. 04/10	Diversity and novelty	
16	seg. 09/10	Knowledge-based recommendation	
17	qua. 11/10	Explanations	
18	seg. 16/10	Hybridization	
19	qua. 18/10	Context-aware recommendation	> RC2

20	seg. 23/10	RC2 development (off-class)	
21	qua. 25/10	RC2 development (off-class)	
22	seg. 30/10	Factorization machines	
23	qua. 01/11	Deep learning	
24	seg. 06/11	Seminars	
25	qua. 08/11	Seminars	
26	seg. 13/11	Exam #2	
--	qua. 15/11	Holiday	
27	seg. 20/11	RC2 development (off-class)	< RC2
28	qua. 22/11	RC2 presentations	
29	seg. 27/11	Replacement exam	
30	qua. 29/11	Resit exam	

Bibliografia

1. [*Recommender Systems: An Introduction*](#), Dietmar Jannach, Markus Zanker, Alexander Felfernig, Gerhard Friedrich. Cambridge University Press, 2010.
2. [*Recommender Systems Handbook*](#), Francesco Ricci, Lior Rokach, Bracha Shapira, Paul B. Kantor. Springer, 2015.
3. [*Recommender Systems: The Textbook*](#), Charu C. Aggarwal. Springer, 2016.
4. [*Statistical Methods for Recommender Systems*](#), Deepak K. Agarwal, Bee-Chung Chen. Cambridge University Press, 2016.
5. [*Practical Recommender Systems*](#), Kim Falk. Manning, 2019

Avaliações (tentativo)

1	Exam #1	25 pontos	20/09
2	Research challenge #1	20 pontos	25/09
3	Paper seminars	10 pontos	06-08/11
4	Exam #2	25 pontos	13/11
5	Research challenge #2	20 pontos	20/11