Timetable Data Mining in Computer and System Sciences, 7,5hec (DAMI) HT2023

Course/Course Segment Coordinator: Ioanna Miliou, Golnaz Taheri

Printed: 2023-08-24

Date	Time	Room	Activity	Description	Teacher
Week 35					
Monday 2023-08-28	14:00-15:45	Auditorium NOD*	Lecture 1	Introduction to Data Mining - basic definitions - supervised and unsupervised learning - the set cover problem	Ioanna Miliou, Golnaz Taheri
Wednesday 2023-08-30	08:00-09:45	Auditorium NOD*	Laboratory session	Lab 0: Introduction to python	Luis Eduardo Velez Quintero
Thursday 2023-08-31	10:00-11:45	Auditorium NOD*	Lecture 2	Association Rules - the Apriori algorithm - maximal itemsets - closed itemsets	Ioanna Miliou
Week 36					
Monday 2023-09-04	14:00-15:45	Auditorium NOD*	Lecture 3	Dimensionality reduction - the curse of dimensionality - principal component analysis - multi-dimensional scaling	Ioanna Miliou
Wednesday 2023-09-06	13:00-14:45	Distance	Laboratory session 1	Lab 1: Data Preparation using Python - data exploration - dimensionality reduction	Maria Bampa
Thursday 2023-09-07	15:00-16:45	Auditorium NOD*	Lecture 4	Clustering I - k-means - k-medoids - Hierarchical clustering	Golnaz Taheri
Week 37					
Monday 2023-09-11	13:00-14:45	Auditorium NOD*	Lecture 5	Clustering II - cluster quality metrics - cluster aggregation - subspace clustering	Golnaz Taheri
Thursday 2023-09-14	15:00-16:45	Distance	Laboratory session 2	Lab 2: Clustering using Python - clustering algorithms - k-means, k-medoids	Maria Bampa
Friday 2023-09-15	10:00-11:45	Auditorium NOD*	Lecture 6	Classification I - introduction to classification - decision trees and random forests - kNN classification	Ioanna Miliou
Week 39					
Monday 2023-09-25	10:00-11:45	Auditorium NOD*	Lecture 7	Classification II - SVM - linear regression - logistic regression	Golnaz Taheri
Tuesday 2023-09-26	13:00-14:45	Distance	Laboratory session 3	Lab 3: Classification using Python - decision trees - kNN - random forests	Zed Lee
Friday 2023-09-29	13:00-14:45	Small Auditorium*	Lecture 8	Classification III - model ensembles - boosting and AdaBoost - stacking - Perceptron	Ioanna Miliou
Week 40					

Date	Time	Room	Activity	Description	Teacher
Monday 2023-10-02	10:00-11:45	Auditorium NOD*	Lecture 9	Model Evaluation - accuracy, precision, recall - ROC analysis - cross validation - the variance and bias of cross-validation - bootstrapping	Golnaz Taheri
Tuesday 2023-10-03	13:00-14:45	Small Auditorium*	Lecture 10	Advanced Topics I: Neural Networks	Ioanna Miliou
Thursday 2023-10-05	10:00-11:45	Distance	Laboratory session 4	Lab 4: Model Evaluation	Zed Lee

Week 41

Monday 2023-10-09	13:00-14:45	Small Auditorium*	Lecture 11	Advanced Topics II: Graph Mining	Golnaz Taheri
Tuesday 2023-10-10	09:00-10:45	Distance	Laboratory session 5	Lab 5: Deployment - cross-validation - model deployment	Luis Eduardo Velez Quintero
Friday 2023-10-13	13:00-14:45	Auditorium NOD*	Lecture 12	Exam Review	Ioanna Miliou, Golnaz Taheri

Examination

typ	Date	Time	Room
Ordinarie tenta, 4.5hec	Friday 2023-10-20	08:00-12:00	Auditorium NOD, G10:8, G5:18, G5:19, G5:20, G5:21, L70, Small Auditorium, Student lab Game (-2022), Student lab extra Game (-2022)*
Assignment, 3hec	Sunday 2023-10-29		
Omtenta, 4.5hec	Thursday 2023-12-14	08:00-12:00	Small Auditorium, Student lab extra Game (-2022)*

*

Aula NOD: Borgarfjordsgatan 12, Kista, entreplan
Distans: null
Lilla Hörsalen: Borgarfjordsgatan 12, Kista, plan 2
G10:8: Borgarfjordsgatan 12, Kista, plan 2
L70: Borgarfjordsgatan 12, Kista, plan 2
Studentlabb Spel extra (-2022): Borgarfjordsgatan 12, Kista
G5:21: Borgarfjordsgatan 12, Kista, plan 2
G5:20: Borgarfjordsgatan 12, Kista, plan 2
G5:19: Borgarfjordsgatan 12, Kista, plan 2
G5:18: Borgarfjordsgatan 12, Kista, plan 2
Studentlabb Spel (-2022): Borgarfjordsgatan 12, Kista, plan 2