

t.STDM - Statistisches Data Mining

Person responsible for the course: Andreas Ruckstuhl, rkst

Credits: 4

Valid for: 2010/2011

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Learning objectives:

The students know the data mining process and the usual methods from explorative multivariate data analysis, which are also at the bottom of data mining. They can assess the appropriateness of the methods for the available data and can apply the discussed methods practically using a data mining software.

Course content:

Data mining process, principal component analysis (PCA), dissimilarities, multidimensional scaling, discriminant analysis, logistic classification, decision trees and random forest, hierarchical cluster analysis, partitioning (k-nearest neighbours)

R (a freely available language and environment for statistical computing and graphics): Statistic and graphic functions to apply the introduced methods

Previous knowledge:

StMo

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14 x 2L
Tutorial/Practicum	14 x 2L
Group teaching	
Block instruction	
Seminar	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	0.7
1	Exam during the semester	0.2
1	Further assessments	0.1

Language of instruction:

Deutsch

Instruction material:

Skript

Comments:

