COURSE DETAIL

CAUSALITY
Country Denmark
Host Institution University of Copenhagen
Program(s) University of Copenhagen
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Statistics
UCEAP Course Number 106
UCEAP Course Suffix
UCEAP Official Title CAUSALITY
UCEAP Transcript Title CAUSALITY
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course introduces concepts and theories behind causal inference in order to predict and analyze a system’s behavior under manipulations. Topics include causal models versus observational models; observational distribution, intervention distribution, and counterfactuals; graphical models and Markov conditions; and identifiability conditions for learning causal relations from observational and/or interventional data. Working with graphs and graphical models, students derive causal effects, predict the result of interventional experiments, perform variable adjustments for computing causal effects, and gain an understanding of and ability to apply different methods for causal structure learning.

Language(s) of Instruction
English

Host Institution Course Number
NMAK17001U

Host Institution Course Title
CAUSALITY

Host Institution Campus

Host Institution Faculty
Faculty of Science

Host Institution Degree
Master

Host Institution Department
Department of Mathematical Sciences

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