COURSE DETAIL

BRAIN COMPUTER INTERFACING - FROM NEURONS TO DATA
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Psychology Computer Science Biological Sciences
UCEAP Course Number 137
UCEAP Course Suffix
UCEAP Official Title BRAIN COMPUTER INTERFACING - FROM NEURONS TO DATA
UCEAP Transcript Title BRAIN COMP INTRFACG
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

The technological and physical basics of Brain-Computer Interfacing will be elaborated. It covers the path from the (electrical) activity of single neurons and networks via the volume conduction of the human head. At the end of the class, students will know the essential physical background of Brain-Computer Interfacing (BCI). They will understand the pathway from the activity of single neurons to the signal of the electroencephalogram (EEG) They will be capable of programming simulations of the electrical properties of the human head as well as simple neural and neural network models.

Language(s) of Instruction
English

Host Institution Course Number
3435 L 505

Host Institution Course Title
BRAIN COMPUTER INTERFACING - FROM NEURONS TO DATA

Host Institution Course Details
https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschre...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Institut für Softwaretechnik und Theoretische Informatik

Course Last Reviewed
2022-2023

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