COURSE DETAIL

IMAGE PROCESSING FOR REMOTE SENSING
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Electrical Engineering Computer Science
UCEAP Course Number 143
UCEAP Course Suffix
UCEAP Official Title IMAGE PROCESSING FOR REMOTE SENSING
UCEAP Transcript Title IMG PROC REMOT SENS
UCEAP Quarter Units 5.50
UCEAP Semester Units 3.70

Course Description

This course will introduce fundamental concepts and techniques in the content of remote sensing and image processing for Earth observation from space. The course starts by introducing core concepts in remote sensing (describing the processes by which images are captured by sensors mounted on satellite and airborne platforms and key characteristics of the acquired images). Then, fundamental methodologies for processing, analyzing, and visualizing remotely sensed imagery are introduced. Topics include representation of high-dimensional remote sensing images, time domain representations, filtering and enhancement. Practical applications will be provided throughout the course. Participants of this course will gain theoretical and practical knowledge on fundamental concepts and techniques for processing and analysis of remote sensing images acquired by Earth observation satellite and airborne systems.

Language(s) of Instruction
English

Host Institution Course Number
40937

Host Institution Course Title
IMAGE PROCESSING FOR REMOTE SENSING

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 Technische Informatik und Mikroelektronik

Course Last Reviewed
2023-2024

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