# **COURSE DETAIL**

5.50

3.70

**UCEAP Semester Units** 

# **DIGITAL IMAGE PROCESSING Country** Germany **Host Institution** Technical University Berlin Program(s) Technical University Berlin **UCEAP Course Level Upper Division UCEAP Subject Area(s)** Computer Science **UCEAP Course Number** 108 **UCEAP Course Suffix UCEAP Official Title** Digital Image Processing **UCEAP Transcript Title DIG IMAGE PROCESSING UCEAP Quarter Units**

## **Course Description**

This course covers image representation in frequency domain, Fourier transform, sampling theorem, Filtering, Wiener Filter, image enhancement, edge detection, Hough transform, segmentation, interest operators, mathematical morphology, vectorization, texture, sceletonization, medical axis and distance transform, contour/line tracing and -smoothing, Gestalt psychology, and grouping.

### Language(s) of Instruction

English

#### **Host Institution Course Number**

0433 L110

#### **Host Institution Course Title**

**Digital Image Processing** 

## **Host Institution Campus**

## **Host Institution Faculty**

# **Host Institution Degree**

# **Host Institution Department**

Institut für Technische Informatik und Mikroelektronik

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