האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

ADVANCED IMAGE PROCESSING - 67288

Last update 21-09-2015

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: computer sciences

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: raanan fattal

Coordinator Email: raananf@cs.huji.ac.il

Coordinator Office Hours: after class

Teaching Staff:

Prof Raanan Fattal

Course/Module description:
wavelets, sparsity, non-parametric image synthesis and image statistics. The topics will be taught in the context of various image restoration problems, such as denoising, deblurring and super-resolution.

Course/Module aims:
Provide knowledge about natural image modelling with emphasis on application to restoration problems

Learning outcomes - On successful completion of this module, students should be able to:
Provide knowledge about natural image modelling with emphasis on application to restoration problems

Attendance requirements(%):
0

Teaching arrangement and method of instruction: Lectures
home exercises
exam

Course/Module Content:
wavelets, sparsity, non-parametric image synthesis and image statistics. The topics will be taught in the context of various image restoration problems, such as denoising, deblurring and super-resolution.

Required Reading:
A Wavelet Tour of Signal Processing, Third Edition: The Sparse Way
Mallat

Additional Reading Material:

Course/Module evaluation:

End of year written/oral examination 50 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 50 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:

The introduction to image processing course is a prerequisite for this course