

# Prof. Oge Marques @ Institute of Information Technology

## March 2013

We are very pleased to announce the guest lecture “Machine Learning for Computer Vision (pdf)“, which will be held by Prof. Oge Marques from Florida Atlantic University, USA. Details for the lecture are available on the course website.

## Guest Lecture „Machine Learning for Computer Vision“

Selected Topics in in Distributed Systems - 623.931



The purpose of this course is to introduce selected contemporary machine learning techniques and their application in computer vision problems, with an implementation-oriented focus, using MATLAB.

It should enable students to:

- Assess and understand the challenges behind selected contemporary image processing and computer vision problems
- Appreciate the challenges and understand the principles and applications of contemporary machine learning techniques; and
- Implement machine learning algorithms and apply them to image- and video-related problems.



FAKULTÄT FÜR TECHNISCHE WISSENSCHAFTEN  
Institut für Informationstechnologie

### Prof. Oge Marques Florida Atlantic University



#### Topics and Overview:

- Fundamentals of image processing and computer vision using MATLAB
- Feature extraction, description, representation, and matching
- Supervised learning techniques (linear and logistic regression, support vector machines, Bayesian classifiers)
- Feature selection and dimensionality reduction
- Unsupervised learning techniques (clustering)
- Learning and inference in vision
- System evaluation

#### Schedule:

13.05.2013	10:00	12:00	E.2.37
13.05.2013	14:00	16:00	E.2.37
14.05.2013	14:00	16:00	E.2.37
15.05.2013	10:00	12:00	HS 11
15.05.2013	16:00	18:00	E.2.37
16.05.2013	10:00	12:00	V.1.04
16.05.2013	14:00	16:00	E.1.05
17.05.2013	10:00	12:00	E.1.05
27.05.2013	10:00	12:00	HS 9
27.05.2013	14:00	16:00	I.0.08
28.05.2013	14:00	16:00	E.2.37
29.05.2013	16:00	18:00	HS 2

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