University of Patras
CFID

MSc on DATA DRIVEN COMPUTING AND DECISION MAKING (DDCDM)

Special Topics of Artificial Intelligence

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Tuesday 16.00-18.00 Room Δ2

Programme and requirements

Information and material on eclass:

https://eclass.upatras.gr/courses//CEID1178/

Evaluation: assignments (20%), two projects (40% + 40%)

Course Contents

Contents

- Knowledge
 Representation and
 Reasoning on the Web
 - Introduction
 - Knowledge Representation with FOL with equality
 - Knowledge Representation with FRAMES
 - Knowledge Representation with Description Logics
 - Ontologies-Protégé tool
 - OWL Language
 - DL Reasoners

Course Contents

Contents

- Introduction to Deep Learning
 - Introduction to neural networks (Perceptron, MLP)
 - Recursive Neural Networks (RNN, LSTM, GRU)
 - Convolutional Neural Networks (CNN)
 - Autoencoders
 - TensorFlow tool