

AI Graphics

Summary

Machine Learning Fundamentals

Main Topics

- Context
 - Historical Evolution
- Representation Learning
 - Learning Algorithms / Conceptual Scenario / Deep Learning Methods
- Mathematical Framework
 - Neuron / Neural Network / Deep Neural Nets
- Network Architectures
 - MLP / CNN / VAE / GANs / RNN
- Learning
 - Methods / Manifold Learning / Model Parametrization / Combining Networks

3D Deep Learning

Main Topics

- Deep Learning from 3D Data
 - Graphics & Vision Applications / Synergistic Opportunities
- Representation Challenge
 - Representations in CG / Problems in CG
- 3D Deep Learning
 - 3D Geometric Analysis / 3D Synthesis
- A.I. Graphics
 - Research / Challenges / Features / Metrics