

MP10: Deep Learning for Image Analysis

Course Introduction

E. Decencière, Thomas Walter, Santiago Velasco-Forero

MINES ParisTech
PSL Research University



Program

Lectures: 9h-12h30 (**except on Monday: 9h30-12h30**)
including invited speakers (11h30-12h30)
Practical sessions: 14h-17h30.

Day	Lecture	Invited speaker
Monday	Machine learning Artificial neural networks	TBD
Tuesday	Introduction to Convolutional Neural Networks Application to image classification	TeraPixel
Wednesday	Image transformations and semantic segmentation Practical considerations	Marc Huertas-Company Observatoire de Paris
Thursday	Instance segmentation Applications in robotics	Bogdan Stanciulescu MINES ParisTech
Friday	Advanced techniques	Pauline Luc Facebook Research

Course Team

Instructors

- Etienne Decencière
- Thomas Walter
- Santiago Velasco-Forero
- Bogdan Stanciulescu

Practical sessions software

- José-Marcio Martins da Cruz

Teaching assistants

- Bruno Fligliuzzi
- Samy Blusseau
- Robin Alais
- Leonardo Gigli

Grading

- Continuous evaluation of practical work
- Exam (2h, Friday afternoon)