

Visiopharm Academy

Image Analysis for Beginners

Day 1

- Reception and introduction**
09 am Goal: Access and explore whole slide images, explore the APP Center, load and execute APPs, and restrict analysis to Region of Interests, and understand labels and results.
- Analysis algorithm design – tissue and tumor detect**
10 am Goal: Understand and implement algorithm design, digital resolution, image segmentation, classifier training, post-processing, and output metrics.
- Lunch**
12 pm Goal: Recharge and relax.
- Tissuealign /cell classification**
1 pm Goal: Generate a co-registered image, create a nuclear detection APP, and design VDS APPs.
- Tissuearray / batch processing / data view**
2 pm Goal: Dearth a TMA, initiate a batch process, and review the results in excel view.
- Fluorescence and advanced filter preprocessing / Q&A**
3 pm Goal: Identify fluorescent nuclei and overlapping signals using morphometric filters
- End of day 1**
4 pm

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Day 2

- 09 am **Features**
Goal: Identify suitable features for different projects. Explore the advantages of using filters.
- 10 am **Classification**
Goal: Understand the theory and concept behind the different classification methods.
- 12 pm **Lunch**
Goal: Recharge and relax.
- 1 pm **Post processing**
Goal: Understand the impact Post Processing has on classified images and view some examples.
- 2 pm **Output variables**
Goal: Define relevant outputs for the project.
- 3 pm **Review / Q&A**
Goal: Recap and practice.
- 4 pm **End of day 2**