

Type: Master Thesis

Title: AI for Breast Cancer Immunohistochemical Image Generation

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Summary

According to the grand challenge <https://bci.grand-challenge.org/>, To develop an AI algorithm for the automatic generation of an IHC image based from HE images (see Figure 1).

Problem, Goal and Data

Please refer to the grand challenge <https://bci.grand-challenge.org/>

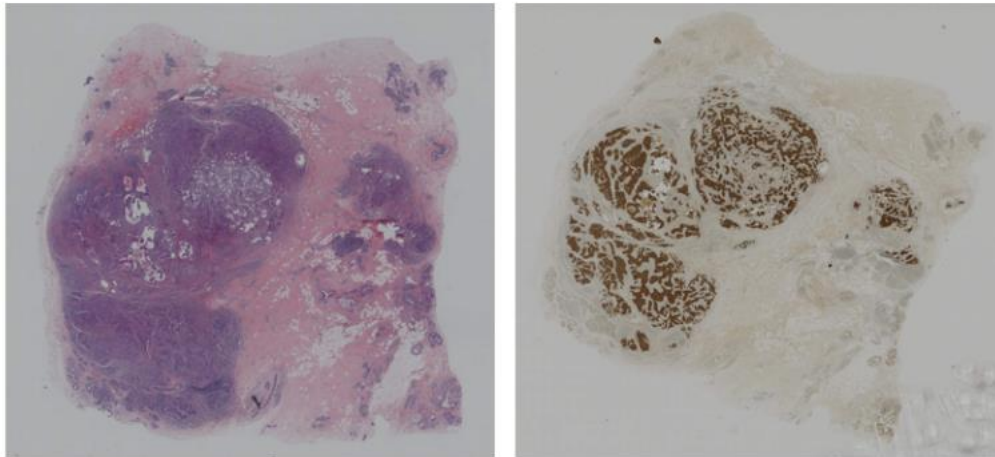


Figure 1: From the HE image (left), the task is to generate the corresponding IHC image (right). From <https://bci.grand-challenge.org/>.

Requirements

Knowledge in or interest in learning of: Python programming, deep learning, machine learning, Linux Cluster usage, GPU programming, image processing, pathology, debugging, visualizations, analytical thinking.

Computing Resources

The student will use the LRZ high performance computing cluster for AI (GPU-based).

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