FACULTY
OF INFORMATION
TECHNOLOGY
CTU IN PRAGUE

ASSIGNMENT OF BACHELOR'S THESIS

Title:	Detection of organs in CT images using Neural Networks
Student:	Ivana Hacajová
Supervisor:	Ing. Jakub Žitný
Study Programme:	Informatics
Study Branch:	Knowledge Engineering
Department:	Department of Applied Mathematics
Validity:	Until the end of summer semester 2020/21

Instructions

Research current state-of-the-art techniques that are used for detection and segmentation tasks in the medical imaging domain, focus on CT images. Implement your own prototype model that will work on one of the datasets provided by the supervisor. Compare the performance of your model with reference results from literature or existing models and discuss the pros and cons. Publish your prototype code and make sure your results are reproducible.

References

Will be provided by the supervisor.

Ing. Karel Klouda, Ph.D.
Head of Department

doc. RNDr. Ing. Marcel Jiřina, Ph.D.
Dean

Prague January 3, 2020