

YU ZHOU

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Personal Summary

Familiar with machine learning algorithms, deep learning framework like pytorch.
Skilled at python, matlab, linux script.
Have knowledge of registration, segmentation algorithms.
Familiar with medical imaging software design

Education

Ecole Polytechnique Fédérale de Lausanne(EPFL) Aug 2021 - Feb 2022
Medical Engineering Master
Laussane, Switzerland
Exchange study
Related courses: Applied Data Science

KTH Royal Institute of Technology Aug 2020 - Jul 2022
Medical Engineering Master
Stockholm, Sweden
Medical imaging Track, MEIM
Related courses: Medical Imaging visualizaiton(A); software fundamentals(A); DL methods in image analysis; MRI

Southeast University Sep 2017 - Jun 2021
Medical Engineering Bachelor
Nanjing, China
GPA: 90/100

Work Experience

Leibniz-Institut für Analytische Wissenschaften - ISAS - e.V Sep 2022 - Present
PhD student AMBIOM
Dortmund
Work on improving bioimage AI task efficiency, including model compression and data compression.

Internship Experience

Pathological grade of pancreatic neuroendocrine tumor Jul 2021 - Aug 2021
trainee, Research Algorithm Department
Deepwise Ltd.(Beijing)
We select enhanced CT pancreatic images from 140 patients, and label the tumor area. Then omics features of each phase are extracted. Afterwards, we apply a series of machine learning methods(SVM, ada boost, etc.) to classify the tumors into G1 stage or G2/3 stage. The final AUC on the test set reaches 0.71.

Differentiation of benign and malignant pulmonary nodules using multi-source information Jul 2021 - Aug 2021
trainee, Research Algorithm Department
Deepwise Ltd(Beijing)
using omics features combined with clinical features structured from the corresponding medical record(using re module), we escalated the AUC in predicting the classification of pulmonary nodules to about 0.75 and the bad cases are analysed as well.

Additional Skills

- **Programmable language:** Java, C++, Python, Matlab, R
- **software:** ITK-snap, 3Dslicer, Image-J

Publication

Synthesis of pediatric brain tumor images with mass effect SPIE 2023
<https://doi.org/10.1117/12.2654366>