

OSAIRIS: AI cancer imaging tool

Available Technologies

An AI tool to reduce image segmentation

A key determinant to radiotherapy treatment plans for cancer patients – from hours to 1-2 minutes.

Starting radiotherapy promptly improves cancer survival rates and reduces anxiety in newly diagnosed patients. But before any radiotherapy can take place, the oncologist must spend a significant amount of time – one or two hours per patient – making sure the radiation will be delivered to the correct part of the body without damaging any healthy tissue.

Osairis is a cloud-based, open-source, machine learning tool for automatic segmentation of radiotherapy images which can carry out this preparation as well as an expert clinician in just a few minutes. This means the doctor's time is freed up, enabling them to get patients onto treatment more quickly.

The tool has been helping cancer patients in Cambridge since 2018.

Technology overview

Osairis is a cloud-based, open-source, machine learning tool for automatic segmentation of radiotherapy images which can carry out image segmentation as well as an expert clinician in just a few minutes.

Benefits

- Image segmentation performed in few minutes instead of 1-2 hours

- It accelerates radiotherapy workflows helping get patients onto curative radiotherapy more quickly

Applications

Radiotherapy treatment planning for prostate and head and neck cancers with the potential of expanding use to other cancer types.

Opportunity

We are looking for licensees, investors and/or co-development partners.

Inventors

Dr Raj Jena

References

- [AI cuts waiting times for cancer patients in NHS first | University of Cambridge](#)
- [Cancer radiotherapy sped up by AI scanning tool OSIRIS as new NHS strategy embraces tech \(telegraph.co.uk\)](#)
- [AI cuts treatment time for cancer radiotherapy – BBC News](#)
- [AI cuts radiotherapy waiting times for NHS cancer patients | CRUK CC \(crukcambridgecentre.org.uk\)](#)