

aetherAI Ortho

Automatic Measurement of Whole-spine Lateral Radiographs

The standing lateral radiograph for whole-spine view is crucial for evaluating spinopelvic pathology, surgical plans, life quality, and prognosis. Manual estimation is tedious because as many as 25 key points need to be marked for a comprehensive analysis. To solve this issue, aetherAI Ortho is specifically developed for automatic measurement of whole-spine lateral radiographs parameters using novel deep neural networks trained on thousands of images carefully annotated by experienced orthopedic surgeons.



aetherAI Ortho is able to provide GAP score, calculated by adding the scores for Relative Pelvic Version, Relative Lumbar Lordosis, Lordosis Distribution Index, Relative Sponopelvic Alignment and Age Factor.

Superior Performance

Novel deep neural network architecture for superior performance on keypoint detection, with <math>< 1.2\text{mm}</math> mean absolute error.

Increased Consistency

Model prediction robust to various clinical conditions, thanks to vast amount of training data.

All-In-One Solution

Embedded solution including aetherAI Box, trained deep neural network, AI inference pipeline with DICOM interface.

aetherAI Box

Specifically Designed for Medical Image AI Inferencing



Superior Performance

Powered by Intel Xion processor and NVIDIA Tesla T4 GPU.

DICOM-Compatibility

DICOM standard for communication and management of medical images and data.

Enhanced Security

Dedicated hardware-encrypted storage powered by WiSecure Technologies for enhanced data security.

Meet aetherAI

aetherAI is dedicated to providing enterprise solution for adoption of digital pathology and AI-powered medical imaging. Partnering with medical centers in US and Taiwan, aetherAI aims to ease the burden of healthcare professionals and improve the quality of medical diagnostics by bringing top-quality AI into clinical practice.

aetherAI Co., Ltd

For Reserach Use Only

 aetherai.com

 info@aetherai.com