

X-RAIS: AI SUPPORT FOR IMAGE DIAGNOSTICS

An AI tool for the analysis of medical images based on neural networks.



X-RAIS uses deep learning and radiomics models to analyze radiological images. It identifies microcalcifications, lesions and masses and analyze their nature, size and evolution. It highlights anomalies and generates automatic reports.

Interpretation of medical images takes a few seconds, helping to prioritize patients and reduce the rate of false negative assessments.

What is X-RAIS?

- Supports physicians' assessment of diagnostic images
- Highlights suspicious areas using different intensity levels based on confidence levels (heat maps)
- Provides a report describing the detected anomalies
- CE Marking (IIa class) in progress



A 'Third Eye'

- Artificial Intelligence acts as a second opinion
- Highlights and classifies abnormalities in medical images
- Reduces the risk of mis-diagnoses

International Standards

- Reporting compliant with standards acknowledged worldwide
- Breast density and shape/margins of detected masses follow the International ACR BI-RADS standard

Artificial Intelligence tools will cooperate with doctors without substituting them, allowing higher diagnoses accuracy and faster reports redaction.

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Why X-RAIS?

1. Accurate interpretation
2. Risk reduction
3. Fast reporting
4. Reduction of patients' waiting time
5. Machines never tire
6. Integrated with the PACS (Picture Archiving and Communication System) via DICOM.

X-RAIS helps reduce the number of false negatives while ensuring GDPR compliance for personal data.

Process Enhancement

- Fast: each image is processed in approx. three seconds
- Report distribution to clinicians
- Patients prioritized based on clinical risk

PACS Integration

- Integrated with PACS via DICOM
- Images processed automatically on cloud platform
- Results displayed locally
- Detected anomalies visualised as heatmap

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