REPLY LAIFE

X-RAIS assists doctors in clinical decisions

Deep Learning solution that analyzes medical images and highlights anomalies generating an automatic report

Interpretation of a medical image in a few seconds to prioritize patients, characterize anomalies, generate reports and reduce the false negative rate of tumor masses. Currently specialized in determining density and detecting masses in mammogram.

What is X-RAIS?

- A support for physicians on diagnostic images
- Highlights suspicious areas using different intensity levels based on confidence
- Proposes a report describing the anomalies detected
- CE Marking (IIa class) is in progress

Why X-RAIS

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

The Third Eye

- Artificial Intelligence acts as a Second Opinion Physician
- X-RAIS highlights and classifies tumors in medical images
- Reduces the risk of misdiagnoses

Only 86.9% of malignant tumors in mammograms are detected [1]

Process Enhancement

- **Fast**: each medical image is processed in ~3 seconds
- Patients distributed among doctors
- Patients prioritized based on breast density and clinical risk

Microsoft Azure platform to speed up the process

International Standard

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

Doctors are provided with useful information for reporting

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

- Paolo Poggi, Diagnostic Imaging Director, Istituti Clinici Scientifici Maugeri (Pavia, Italy)

[1] Breast Cancer Surveillance Consortium (BCSC). Performance measures for 1,682,504 screening mammography examinations from 2007 to 2013 by age -- based on BCSC data through 2013. National Cancer Institute. 2017.

REPLY LAIFE

X-RAIS is a Deep Learning solution designed to assist doctors during the analysis of diagnostic images

PACS Integration

- X-RAIS is integrated with the PACS
- Patients exams processed automatically on Cloud
- Results displayed locally
- Breast masses detected visualized as heatmap

X-RAIS + MICROSOFT Proof

- High performance computing with Microsoft Azure
- Data security and replication on Azure Cloud Storage

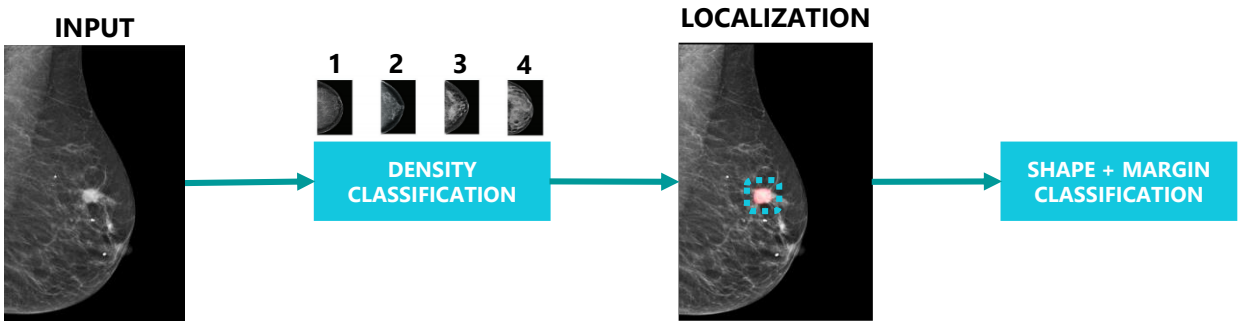
Our promise to you

X-RAIS will help reducing the number of false negatives while ensuring GDPR compliance for personal data treatment

An offer to get you started

- No initial fees
- Pay-Per-Use service or Monthly/Yearly subscriptions
- Integration with your PACS

X-RAIS



Future Scenarios

- Verticalization on different organs and imaging techniques (e.g., 3D mammogram, ultrasound)
- Radiomics to improve screening analysis by discovering hidden structures in medical images
- Accuracy increase by profiling patients according to their history, personal information and habits

Why Laife Reply?

- High-level competences in innovative technologies and Healthcare domain
- Specialized in the development of advanced AI solutions for medical diagnoses and clinical decision support processes

REPLY LAIFE