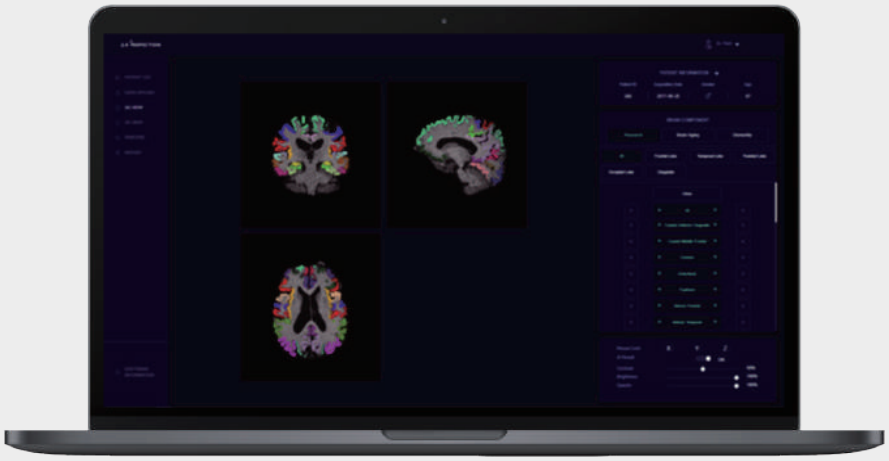
AI for Human Benefit, Everywhere

ATROSCAN

AI based Brain Aging & Dementia Progress Analysis

MEDIHUB DEMENTIA

intel | OpenVINO | JLK



ATROSCAN

AI based Cortical Thickness Analysis Solution

Summary

Dementia is a disease in which prevention is more important than treatment, because treatment method has not been developed yet. The cortical thickness of the cerebral cortex is a biomarker for managing brain health, and it can help management through rapid and stable results and quantitative information through artificial intelligence.

JAD-02K provides useful information for brain health management and diagnosis by structurally classifying 3D MRI regions and analyzing the cortical thickness of each region.

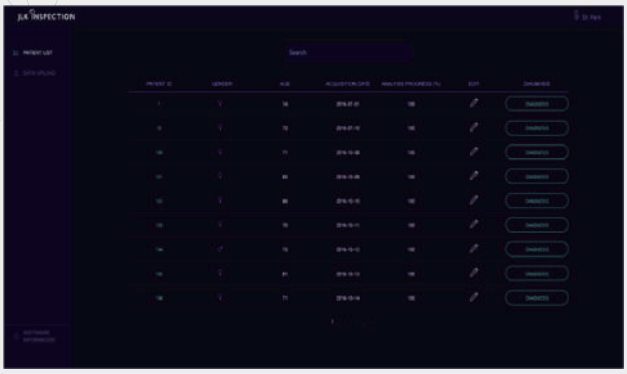
Key Components & Performance

- Public data Dice Coefficient 85.67%
- Analysis Time : within 1,200 seconds
- Convenient patient data management through PACS interworking
- Display analysis result within the web-based user interface

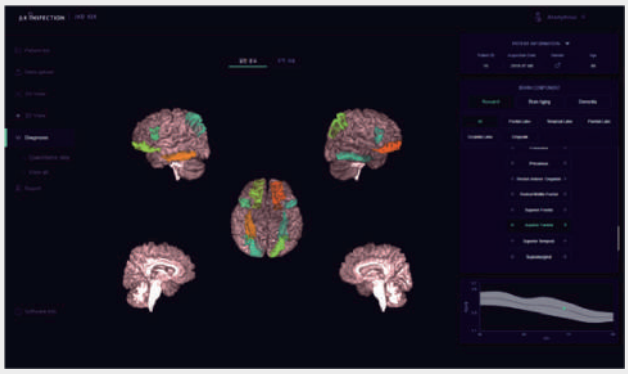
Input / Output

· Input Data	Subject Brain MRI DICOM (T1 MPRAGE), Clinical information
· Output Information	Cortical thickness of each region

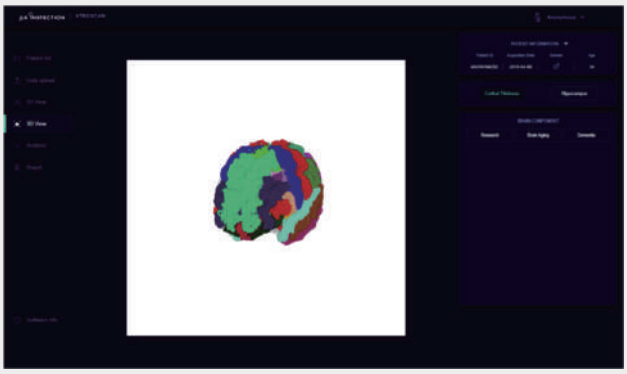
Solution UI



1 Patient list UI



2 Cortical thickness analysis UI



3 3D visualization UI

4 Analysis reports UI

Unique Functionality

- Measure the thickness of the brain cortex by area and provide a heat-map compare with previous population data
- Provides three-dimensional segmentation of the subject's brain
- Provides functions for tracking analysis/management
- Numerous analysis data and quantitative comparison analysis function
- Provides personalized reports on analysis results

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