

Technology innovation for the Clients Value creation together with the Clients

AI is a new cutting-edge technology.

AI is striving to achieve natural coexistence between man and technology.

AI is now thriving in domains of our lives.

Silla System is offering convenient, safe and healthy life to you with its AI platform.



AI medical solution

AI-based medical diagnosis/assistance solution, Pine-DX Series

- Pine-DXC : AI solution for Cobb's angle interpretation.
- Pine-DXB : AI solution bone age interpretation.
- Pine-DXS : AI solution for diagnosis and prediction of prognosis of scoliosis.



Healthcare solution

WELLNUT

- AI-based self-healthcare platform, ACE IoT-based brace
- for standing/walking for aged persons, Dolbo-Me. Smart Cooling Glove, GloveS.



Safety management solution

IoT and AI technology-based indoor/outdoor safety management solution

- Smartwatch-based smart safety management solution, i-SSC. **GS certification**
- AI-based industrial safety management solution, Safety-AI.



Build up and open data

Build up and open data for AI technology and service development

- Project for building up data for AI learning.
- Project for strengthening of opening up and activation of the use of public data.



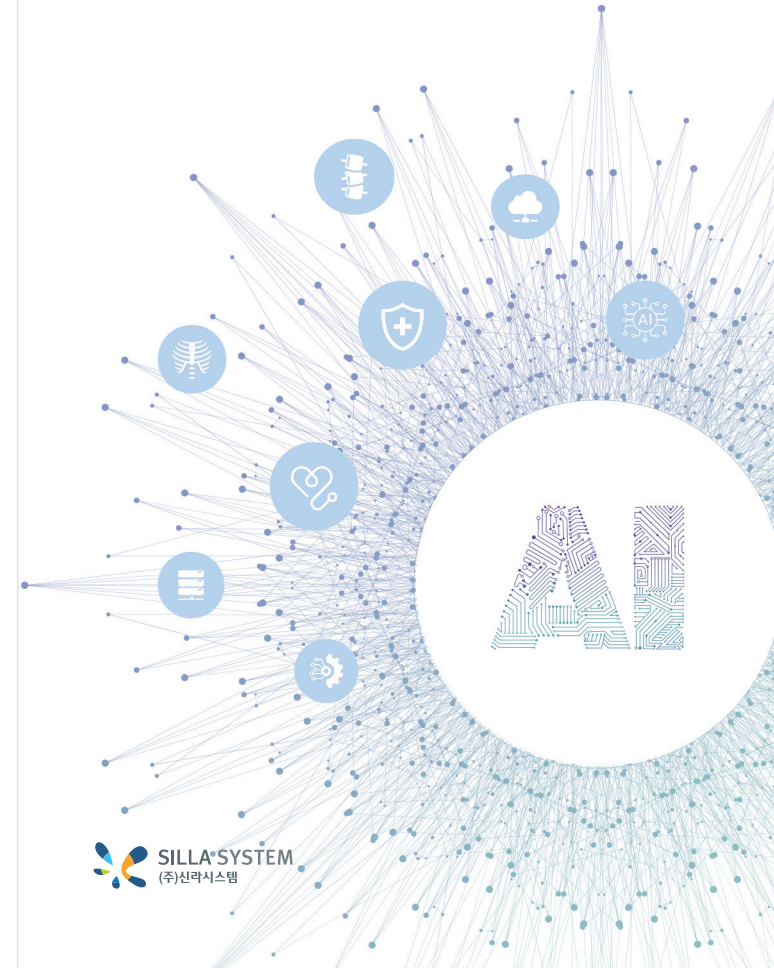
information

Company name	SillaSystem Co., Ltd.
Incorporation date	May 13, 2005
Business category	SW development / ICT convergence and integration
Key manufactured products	AI medical Solutions, Healthcare Solutions, Safety Management Solutions, and Integrated Information System
Headquarters	#52 Maeyeo-ro, Dong-gu, Daegu Metropolitan City
Contact No.	TEL (053) 710-1234, FAX(053)243-3118
Subsidiary institute of the company	AI Research Center and Healthcare Research Center
Seoul office	Unit 812, Daeryung Techno-Town Phase 22, #146 Gasandigital-1-ro, Geumcheon-gu, Seoul Metropolitan City

Sillasystem Inc.,
a specialized company for
AI medical & healthcare solutions.

AI for Comfort, Safe, Health Life

Humans can coexist harmoniously with
technology through Sillasystem Inc.



AI solution for prediction of scoliosis diagnosis and prognosis

01

AI medical diagnosis and prognosis prediction
Cobb's angle interpretation | Bone age interpretation

Pine-DX⁺S

Provide program for predicting scoliosis diagnosis and prognosis based on Cobb's angle measurement and bone age diagnosis

- Provide AI solution linkage and integration of Cobb's angle diagnosis and bone age diagnosis.
- Integrated analysis by reflecting the clinical data of patients.
- Scoliosis diagnosis, and deduce the direction of future progresses and prediction results thereof.



Secure the accuracy of scoliosis diagnosis through medical image interpretation

- Can diagnose the multiple maximum angles in Cobb's angle measurement by extracting the image of each of the vertebral bones from the spinal X-ray. (Cobb's angle_top portion: 18.4°, etc. with maximum of 3)
- Can manage the medical history of each patient by providing function for comparison with the previous interpretation data.



Secure accuracy in prediction of growth through segmentation of bone age

- Can diagnose continuous bone age diagnosis rather than the value for specific period. (example, 13.43 years old, etc.)
- Provide individual diagnosis model for each age bracket with considerations for the characteristics during the childhood and adolescence.
- Extract ROI and provide quick interpretation results through a single image registration.



Provide cloud-based convenient service

- Reduce the costs of service use and resolve the complications in linking with existing hospital system through provision of cloud-based convenient service.
- Provide visualization of growth prediction following the diagnosis by utilizing similar data references.

Pine-DX⁺S Characteristics

- Solution that assists quick diagnosis through AI-based Cobb's angle interpretation.
- Assistant solution that predicts growth through AI-based bone age interpretation.
- Resolve the complications in linking with the existing hospital system through provision of cloud-based convenient services.
- Provides comparative verification function using similar data references.
- Deduce integrated results that reflect the clinical information of patient.

AI solution for Cobb's angle interpretation

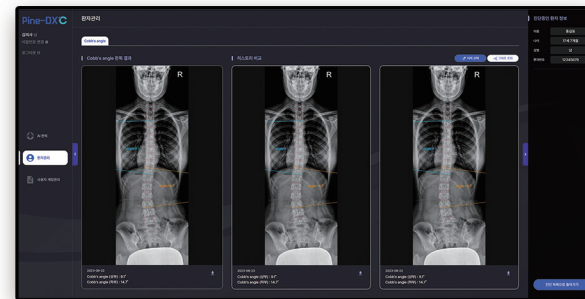
02

AI medical image interpretation and diagnosis assistance

Pine-DX⁺C

Provide Cobb's angle interpretation program based on spinal X-ray

- AI that learned the spinal X-ray analyzes new images to interpret the current Cobb's angle.
- Promptness of interpretation, consistency in results and accuracy of diagnosis.
- Visualization of analysis results and automatic computation of Cobb's angle.



Pine-DX⁺C Characteristics

- Solution that assists quick diagnosis through AI-based Cobb's angle interpretation.
- Resolve the complications in linking with the existing hospital system through provision of cloud-based convenient services.
- Easy tracking system for the progress of symptoms through the image interpretation history.

AI solution for interpretation of bone age

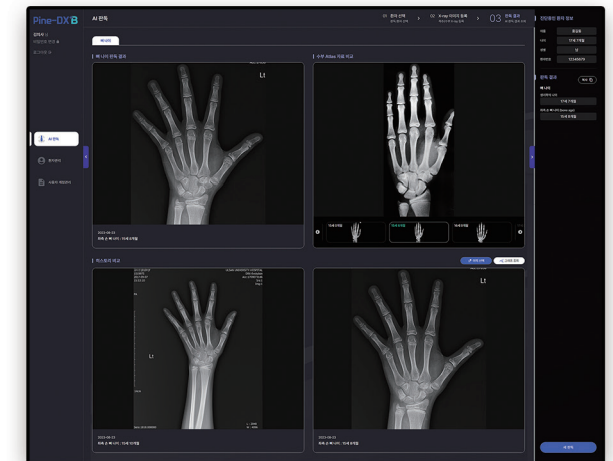
03

AI medical image interpretation and diagnosis assistance

Pine-DX⁺B

Provide bone age interpretation program based on hand and pelvic X-ray

- AI that learned hand and pelvic bone X-ray images interprets the bone age by analyzing new image.
- Apply accurate bone maturity measurement format for each age bracket.
- Improve accuracy in growth prediction by segmentation of bone age.



Pine-DX⁺B Characteristics

- Assistant solution for predicting growth through AI-based bone age interpretation.
- Resolve the complications in linking with the existing hospital system through provision of cloud-based convenient services.
- Provides comparative verification function using similar data references.