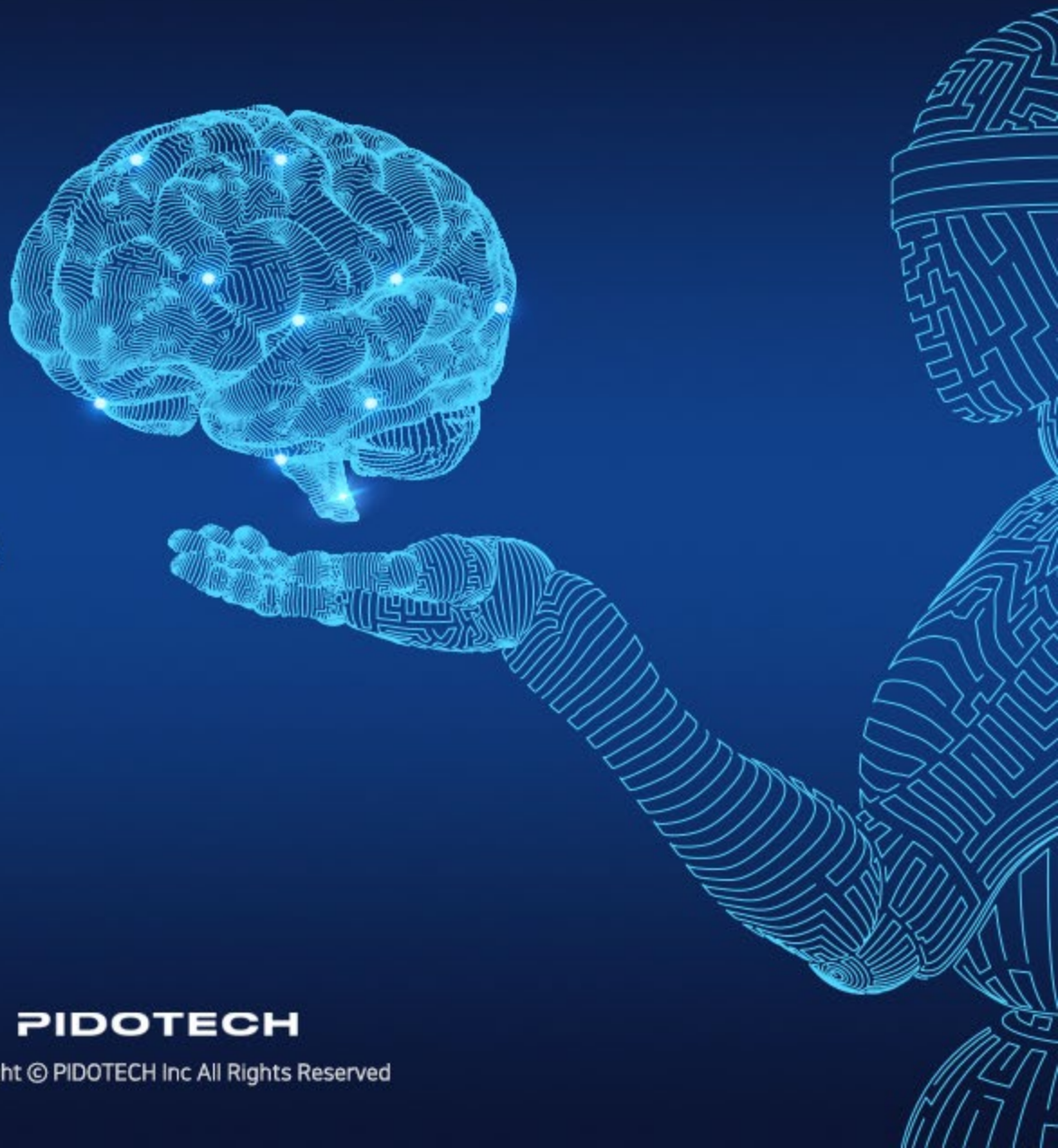


BruceSIM

AI service for Simulation prediction



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CONTENTS

1.	Overview	3
2.	Development process / operation procedure	4
3.	Features	5
4.	Expected effect	6
5.	Application case	7

· Injection molding analysis

BruceSIM

We develop an optimal AI Engine that can predict CAE analysis results based on our CAE analysis data by users.

We can provide a customized application for users to make it easier to use the developed AI Engine.

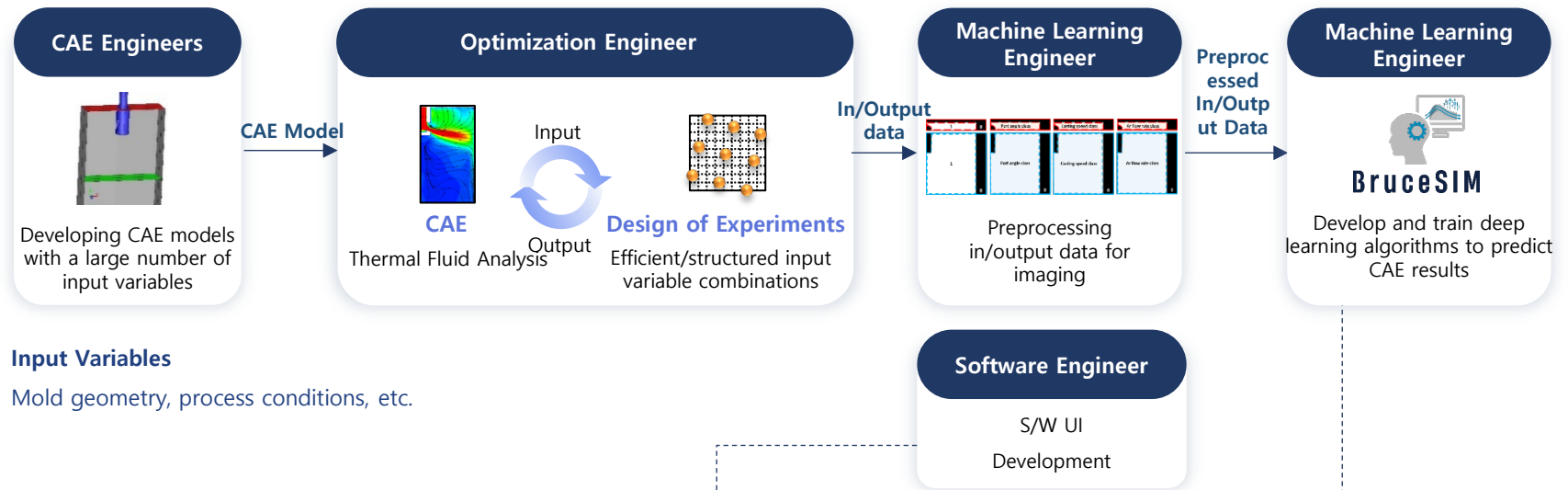


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Development process / operation procedure

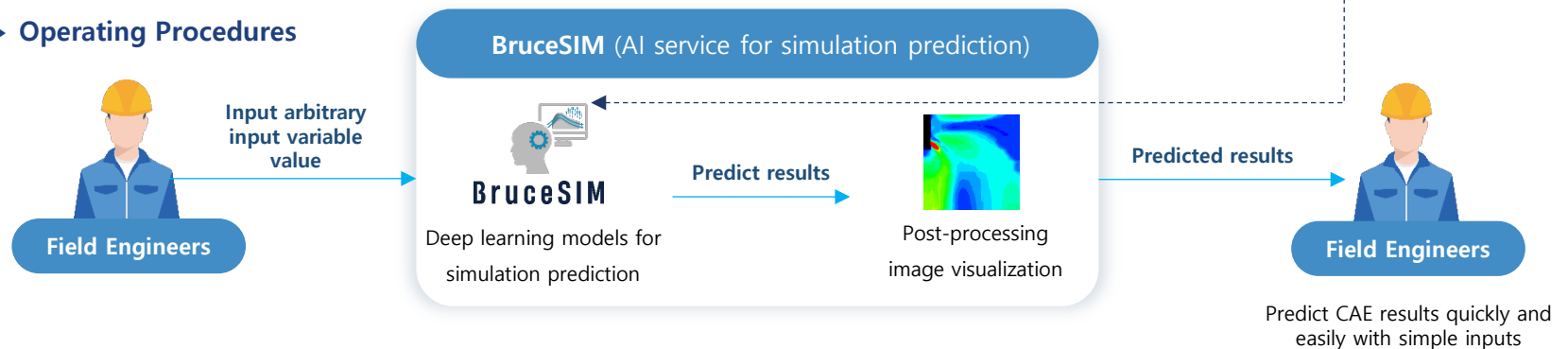
► Development Process



Input Variables

Mold geometry, process conditions, etc.

► Operating Procedures



Features



Preprocessing CAE Analysis Data

- Perform preprocessing to effectively extract the CAE outcomes you want to predict from raw CAE analysis data and apply them to deep learning
- Only need to provide BruceSIM with the CAE results you want to predict



Accumulate CAE analysis data with PIAAnO

- Where CAE analysis data is absent or scarce, PIAAnO's CAE analysis automation can be used to effectively accumulate CAE analysis data
- Get a lot of CAE analysis data in a single PIAAnO run without requiring designers to perform CAE analysis manually



Quickly predict CAE results

- Predict CAE results faster than traditional CAE analysis



Apply the optimal deep learning method

- Perform deep learning by identifying features of CAE results and applying the optimal deep learning method to maximize the accuracy of predicting the results.



Provide simulation prediction tools that are easy to put into practice

Easy to implement in practical situations.

Launch the tool, enter the design you want to predict, and get instant predictions

Expected effect



Improve CAE results prediction efficiency

Effectively predict CAE results using the CAE analysis data you have on hand

Expected effect



Increase practical applicability

Customizable CAE prediction tool makes it easy to put your hands to work

Application case - Injection molding analysis results and fill time prediction

Design goals

- Prediction of analysis results using deep learning based on accumulated injection molding input and analysis result data

Input Variables

- 2D Mold Geometry
- Number and location of gates

Deep Learning Method

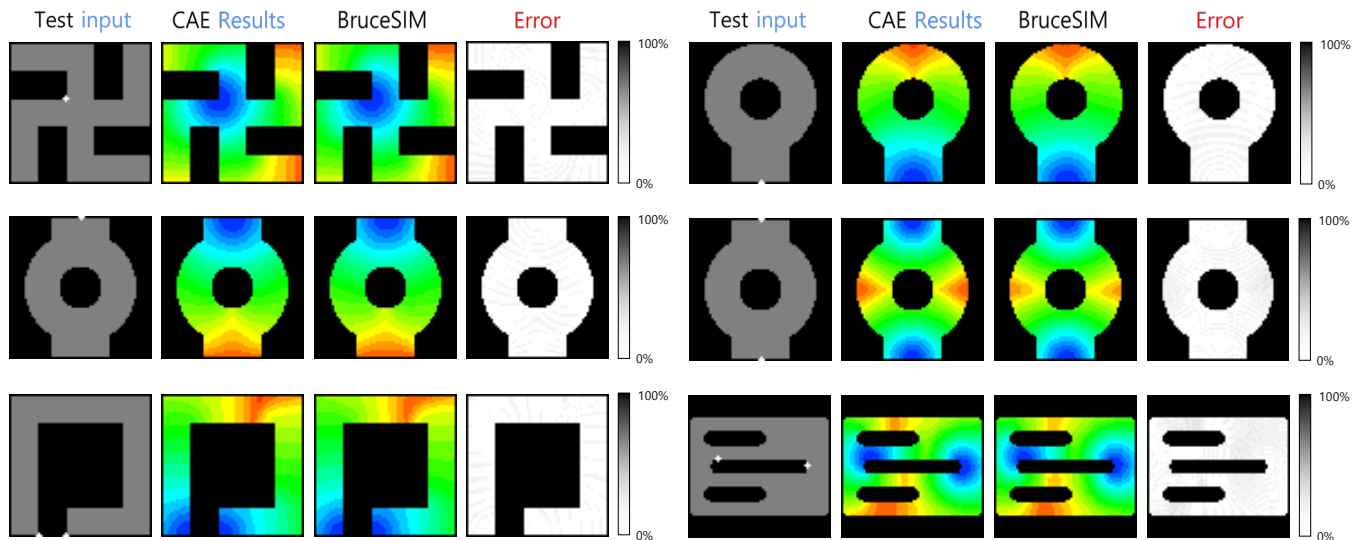
- CNN(Convolutional Neural Networks)

What BruceSIM predicts

- Fill time

- Number of learned injection molding analysis inputs/results Data : 80,456
- Time required to learn BruceSIM: 1 day

■ : Molds + : Gate



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We will reward you with the best quality and service. thank you



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