BruceTS Al service for time series prediction

PIDOTECH

Copyright © PIDOTECH Inc All Rights Reserved



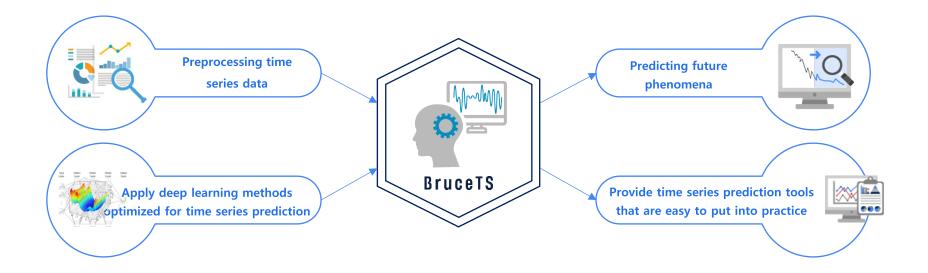
1.	Overview of BruceTS	3
2.	Development process / operation procedure	4
3.	Features of BruceTS	5
4.	Expected effect of BruceTS	6
5.	Application case of BruceTS	7

Overview

BruceTS

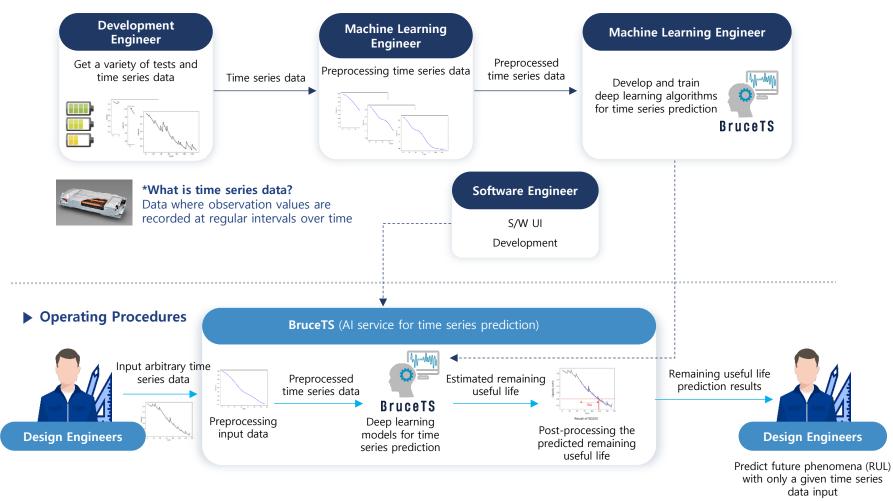
BruceTS is a technology that utilizes Deep Learning to predict time series data mainly in the engineering field.

It is a customized service that offers assistance in the form of a service that satisfies customer needs.



BruceTS Development Process / Operating Procedures

▶ Development Process



Features of BruceTS



Preprocessing time series data

• Preprocess raw time series data so that deep learning models can learn effectively



Predicting future phenomena

• Able to predict the future system phenomenon simply using the provided timeseries data, without any actual experimentation



Apply the optimal deep learning method

- Perform deep learning by applying the latest and greatest deep learning
- methods for time series prediction



Provide time series forecasting 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 of BruceTS



Application case of BruceTS - Remaining Useful Life (RUL) prediction of lithium-ion batteries

Goals

· Predicting SOH and RUL of lithium-ion batteries with deep learning based on accumulated state of health (SOH) time series data

Input data

• Time series that have not reached their end of life (EOL) Data

Deep Learning Method

• TCN(Temporal Convolutional Networks)

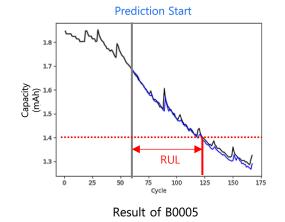
What BruceTS predicts

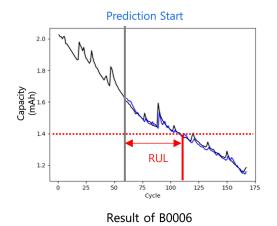
- State of Health(SOH)
- Remaining Useful Life(RUL)

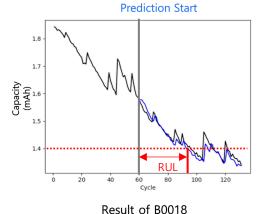
Time series data for a given lithium-ion battery

- B0005 Capacity value from 0 to 60 cycles (mAh)
- B0006 Capacity value from 0 to 60 cycles (mAh)
- B0018 Capacity value from 0 to 60 cycles (mAh)









PIDOTECH

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



sup

support@pidotech.com

https://pidotech.com

Search PIDOTECH on YouTube!

6

main number: 02-2295-3984~5 Technical inquiry/support: 070-4895-0964