

Opprentice

(Operators' apprentice)

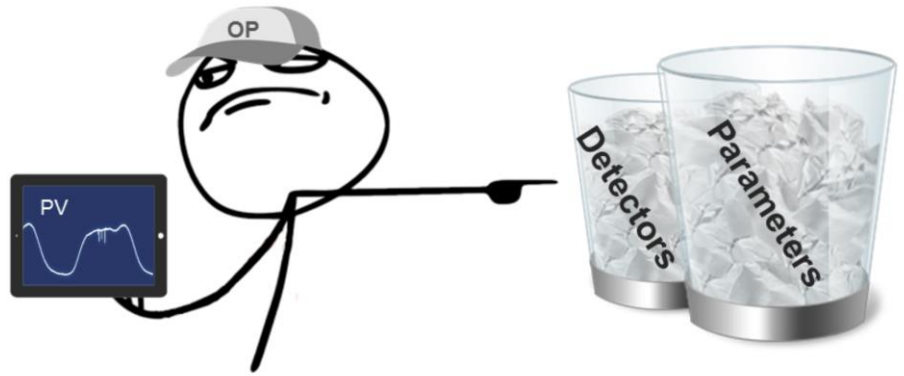
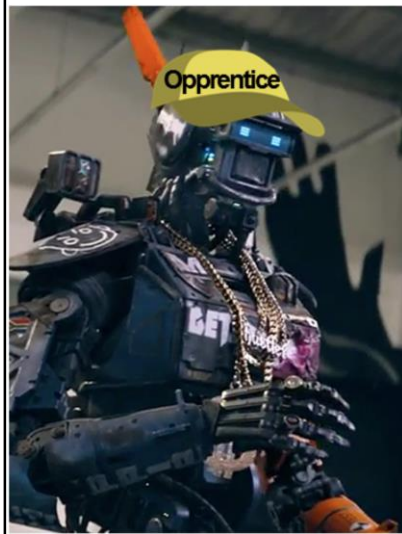


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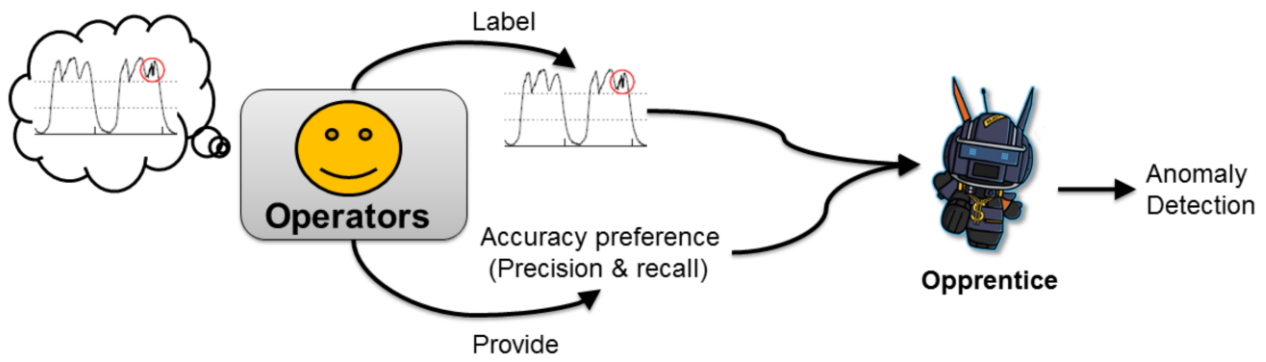
So we propose Opprentice, that is, operators' apprentice, a framework to learn anomaly detection from operators.

A More Natural Way



We know that given a KPI curve, it is more easy for operators to tell whether there exist anomalous behaviors on the curve. So, image this, operators only need to show Opprentice some anomaly cases and he will deal with the rest of things, such as selecting detectors and tuning parameters.

Design Goal

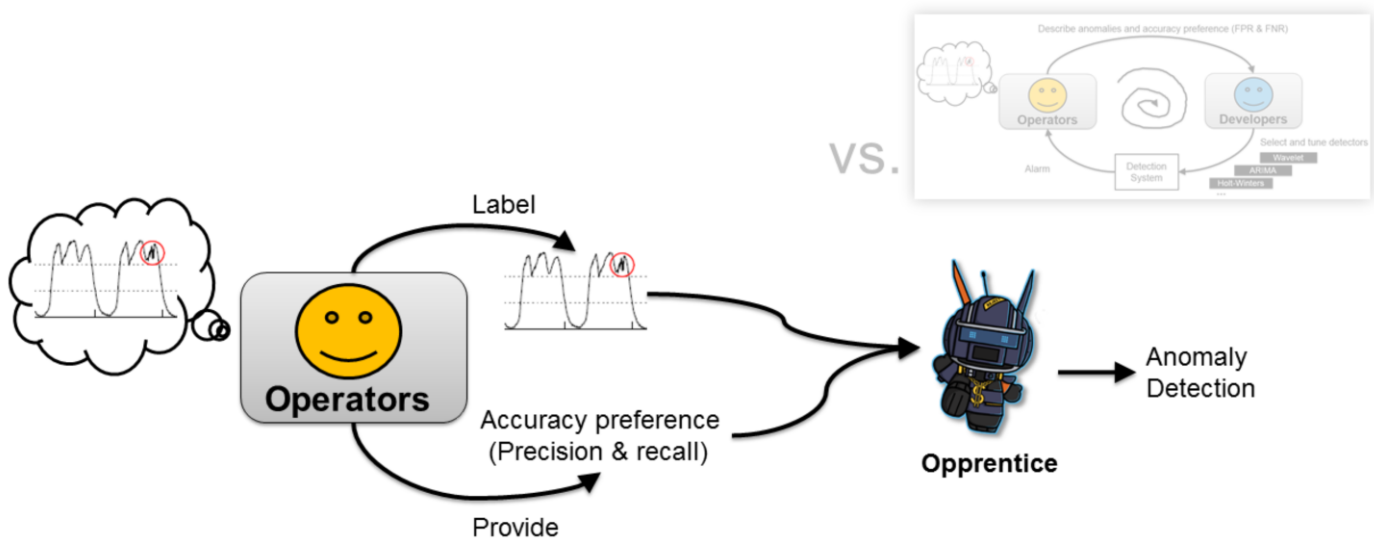


So we want to build a system like this.

Basically, we only require operators to do two things: label some anomaly cases in historical data, and provide their detection accuracy preference in the form of precision and recall.

The rest of things are all handled by Opprentice automatically.

Design Goal



We see that, when compared with the traditional way, operators do not need to formally define anomalies any more but only label some anomaly cases, which are much easier for them.

What's more, no developers are needed to select and tune many complex detectors.

Outline

- Background and Motivation
- **Key Ideas**
- Results
- Conclusion

Next, I will show you the key ideas of how we achieve this