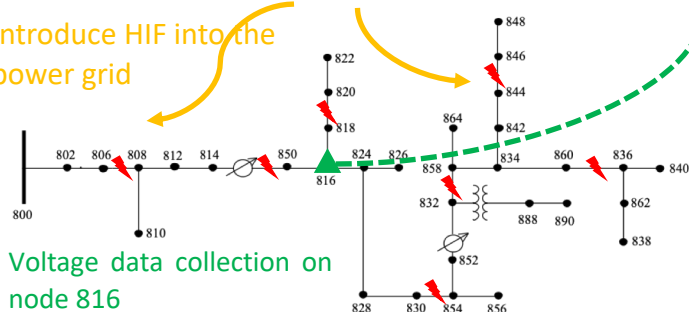


Hybrid Model of Convolutional Auto-Encoder and Ellipse Characteristic for Unsupervised High Impedance Fault Detection

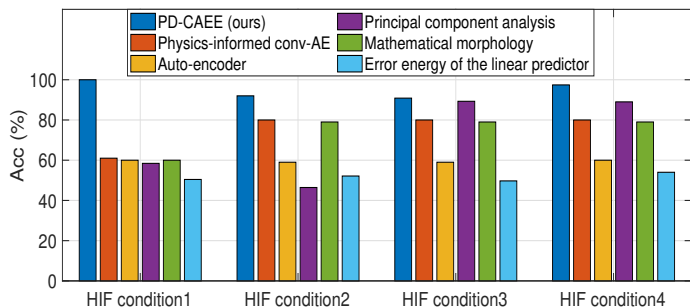


Fire caused by high impedance fault (HIF)

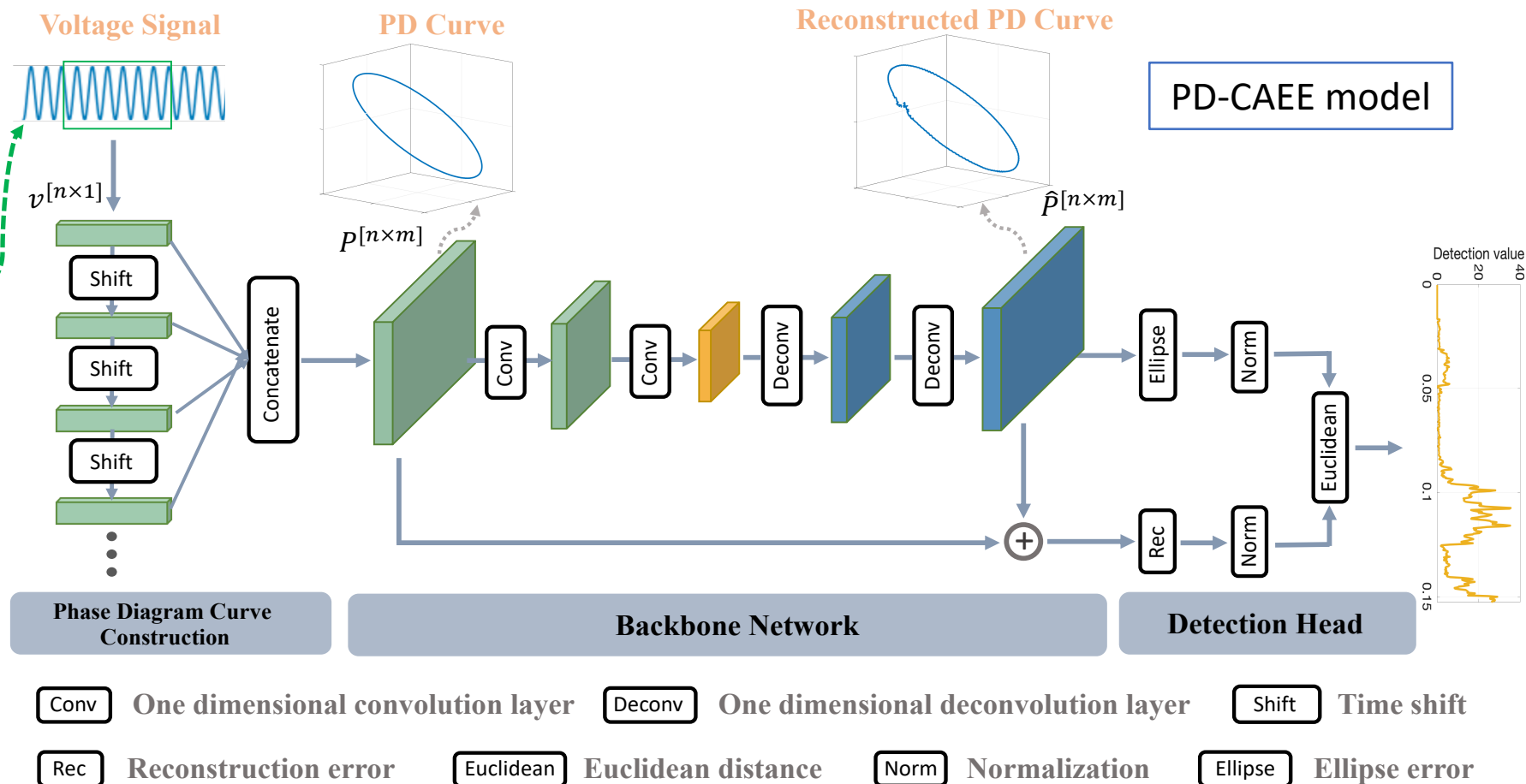
Introduce HIF into the power grid



Simulation on IEEE 34-nodes test feeder (data is available^[1]) for performance evaluation



The proposed PD-CAEE model outperforms other detection approaches (code is available^[2])



- [1] J. YANG and D. Benoit, "IEEE 34 Nodes Test Feeder Simulation Data for High Impedance Fault Detection and Localization," 2024. [Online]. Available: <https://doi.org/10.57745/KRYCYY>
- [2] J. YANG and D. Benoit, "Hybrid model of convolutional auto-encoder and ellipse characteristic for unsupervised high impedance fault detection," <https://github.com/mike2016/PD-CAEE>, 2024.