

4. Conclusions

In this study, the proposed SVC model is verified by using the simulation data of MAAP4 code. We used an initial integral values of the simulated sensor signals to identify the NPP accidents. The training data was used to train the SVC model. And, the trained model was confirmed using the test data. As a result, it was known that it can accurately classify eight events. Since the proposed model uses initial data after reactor trip and the initial simulation data was known to be accurate, it can be effectively used in an actual NPPs as well. By providing accurate information for accidents in a NPP, it will be helpful for the operators to rapidly respond to the accident situations.

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6. References

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