Abstract

The necessity of efficient intrusion detection system increased recent research to be focused on hybrid techniques for better results. In recent research plenty of intrusion detection systems have been proposed with various data mining techniques, machine learning mechanisms and fuzzy logic. Existing intrusion detection systems suffered from higher false positive rate and negative rate. This paper proposes the integrated approach such as clustering with Fuzzy neural network for efficient detection rate. In this proposed approach, Fuzzy C-Regression technique is used to construct different training subsets. Then, FNN model is used to take decision making. This proposed approach significantly reduces the false positive and negative rate.

References

Hybrid Intrusion Detection System using FCRM Mechanism

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Index Terms

Computer Science

Security

Keywords

Intrusion Detection System
Fuzzy Neural Network
Fuzzy C-Regression model
false positive