

Intrusion Detection with Genetic Algorithms and Fuzzy Logic

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The big picture



Outline

- 1 Background
- 2 Genetic Algorithm Implementation
- 3 Fuzzy Genetic Algorithm Implementation
- 4 Conclusions

Outline

- 1 Background
 - Types of Networking Attacks
 - Detection Methodologies
 - Data Sets
 - Rules
 - Fuzzy Logic
 - Genetic Algorithm
 - Determining the accuracy of an algorithm

2 Genetic Algorithm Implementation

3 Fuzzy Genetic Algorithm Implementation

4 Conclusions

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- 1 Background
- 2 Genetic Algorithm Implementation
 - Algorithm Overview
 - Experimental Design and Results
- 3 Fuzzy Genetic Algorithm Implementation
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 - Fuzzy Algorithm
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Measuring the probability of a record being an attack

Encoding of features and rules

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title

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Conclusions



Thanks!

Thank you for your time and attention!

Questions?

References