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Security analysis and new models on the intelligent symmetric key encryption

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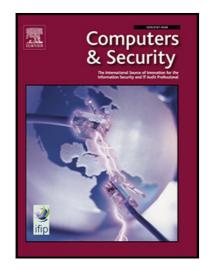
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#### ACCEPTED MANUSCRIPT

### Highlights

- Reinvestigate the neural network based data protection solution and improve the model.
- Investigate its security based on the designated statistical methods.
- Study the learned function shape of the underlined neural network.
- Several models with stronger adversaries are proposed, and the system efficiency is investigated.

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