

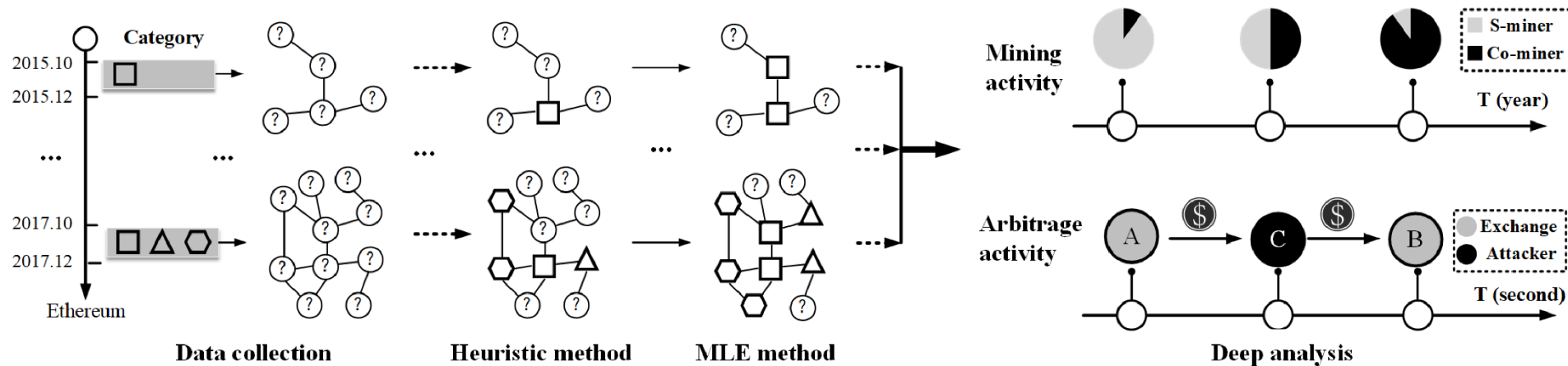
Demystifying Ethereum Account Diversity: Observations, Models and Analysis

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Problems & Ideas

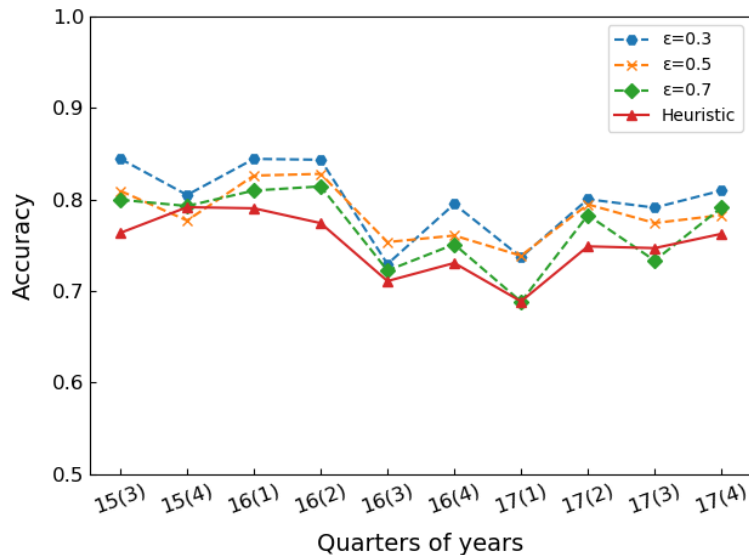
- Problems: Ethereum account classification
 - **Benefits:** understand the Ethereum network deeper, open the possibility of tracking abnormal activities.
 - **Present:** similar work on Bitcoin can hardly be applied to Ethereum.
- Ideas: Heuristic + Static learning
 - **Heuristic :** systematically summarized the characteristics of abnormal accounts for the first time.
 - **Static learning:** making best of the neighbor information of nodes, Maximum Likelihood Estimation is adopted.



■ Overview of our approach

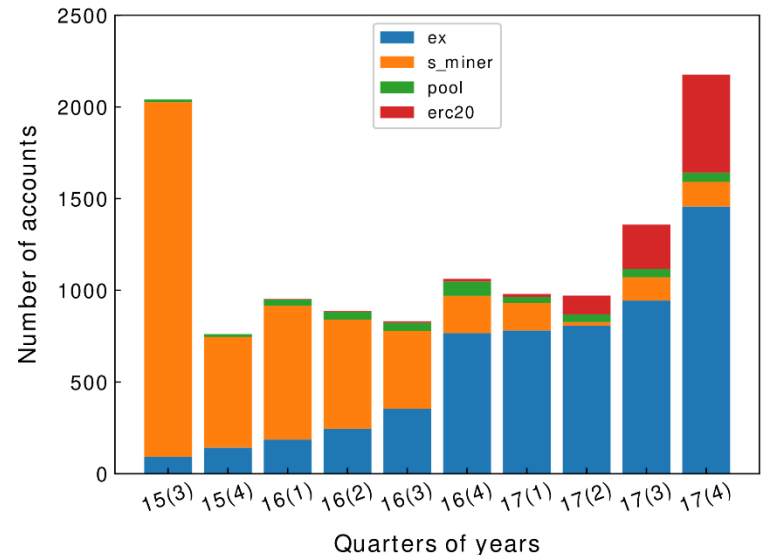
Main Contributions

- Model evaluation
 - Accuracy rate of our methods



■ **Conclusion:**
Our model is effective!

- Deeper analysis
 - Number change of different categories over time



■ **Insight:** standalone miners are gradually replaced by the mining pools and cooperative miners