

Network Analysis of Tether Transactions

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Introduction

What is this study about?

Data

Dataset

Lots of data.

Pearson's correlation coefficient

Pearson's correlation coefficient r is calculated as the co-variance of the two variables divided by the product of the standard deviation of each data sample as following:

$$r = \frac{\sum (j_{out} - \overline{j_{out}})(k_{in} - \overline{k_{in}})}{L\sigma_{out}\sigma_{in}}$$

Theorem

Theorem

Let f be a function whose derivative exists in every point, then f is a continuous function.

Results: Highest Outdegree Nodes

Address	Outdegree	Owner
0xab5c66752a9e8167967685f1450532fb96d5d24f	120'100	Huobi
0x1062a747393198f70f71ec65a582423dba7e5ab3	116'947	Huobi
0x6748f50f686bfbca6fe8ad62b22228b87f31ff2b	116'277	Huobi
0xa8ae6549c66c59aa55d50377948dfbe362d56b03	76'408	Unknown
0xfdb16996831753d5331ff813c29a93c76834a0ad	58'710	Huobi
0xadbb2b42f6bd96f5c65920b9ac88619dce4166f94	55'207	Huobi
0x0a98fb70939162725ae66e626fe4b52cff62c2e5	52'645	Unknown
0xeeee28d484628d41a82d01e21d12e2e78d69920da	51'762	Huobi
0x46705dfff24256421a05d056c29e81bdc09723b8	47'235	Huobi
0xe93381fb4c4f14bda253907b18fad305d799241a	44'917	Huobi

Conclusion and Discussion

- ▶ "Rich get richer"
- ▶ Dissassortative Network
- ▶ Starting point for future research