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Self-Enforcing Protocols via Co-Utile Reputation Management

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#### ACCEPTED MANUSCRIPT

### Highlights

- We study the design of self-enforcing P2P protocols under the umbrella of co-utility
- We study how reputation mechanisms can solve obstacles in co-utile protocol design
- We propose a distributed reputation management model based on Eigen-Trust
- We demonstrate that our reputation mechanism is also co-utile and self-enforcing
- $\bullet$  We give a detailed case study focused on a nonymous query submission

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