

ANTI-SYBIL PROTOCOL USING VIRTUAL PSEUDONYM PARTIES

ABSTRACT.

Bryan Ford proposed **pseudonym parties** – gatherings across the world – to verify the individuality of the participants. His pseudonym parties algorithm is based on doing *simultaneous* and *randomly assigned* pseudonym parties all over the world, and doing them repeatedly throughout the year. The proof behind it is that *you cannot exist in two different spaces at the same time*. The protocol is **trust-less**, you trust the algorithm, and you don't need to trust the people you verify.

The **Proof-of-Individuality** (POI) system is a digital version of Bryan Ford's pseudonym parties algorithm. It moves the gatherings into the digital space. The protocol is agnostic about what technology is used to hangout, and possible interfaces range from simple chat application like Google Hangouts to the latest Microsoft Holoportation technology for a more immersive virtual reality experience with higher resolution co-presence.