Spam Mitigation in IPv6

Goals

Scalable data structures for maintaining IPv6 black-, grey-, and white-lists of Spammer MTA.

Accurate heuristics for maintaining sender MTA reputation.

Detecting changes in behavior of MTAs once known as legitimate senders.

Solution

Detecting Spammers via Aggregated Historical Data Set
Maintaining blacklists as Disjoint Ranges Binary Search Tree and Buckets-Digest Bloom Filters

Results

Danny Hendler, Rami Puzis, Buckets-Digest Bloom Filters, IPO 10/02/2011

Eitan Menahem, Rami Puzis, Historical Dataset for SPAM Mitigation Using Machine Learning

Ariel Felner, Rami Puzis, Olga Brukman, Polina Zilberman, Yuval Elovici, Michael Gorelik, Disjoint Ranges Search Tree. IPO 208996, IPO 28/10/10