

# *Technical Approaches to Spam*

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# *Source filtering*

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- Mechanical DNSBLs
  - Open relay, proxy, spamtrap, ...
- Untrustworthy senders (dialups)
- Shared reports (Spamcop)
- Spam sources (SBL, MAPS RBL)
- DNS “poisoning” forward/backward

# *Content filtering*

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- Protocol defects
  - Reverse DNS, SMTP errors
- Header analysis
  - Sender white/blacklists, header defects, ...
- Body strings (fixed or adaptive/Bayesian)
- Bulk counting (DCC)
- Shared denouncements (Razor)
- “Spammy” behavior (hashbusters, ...)

# *Hybrid filtering*

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- Combine any and all of the others
  - Spamassasin
  - Mailshield
  - Add-ons to MTAs and home-brew

# *Sender identification*

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- PGP, S/MIME signatures
- Per-correspondent addresses
- Real time mail-back
- Challenge/response
- Trusted sender schemes
- Emerging “designated sender”

# *Postage schemes*

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- Computational Hashcash
- E-postage

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