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# TOR deanonymisation research (MIP)

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Jump to: [navigation](#), [search](#)

## OPC-MCR Mathematical Information Processing Research Task: TOR deanonymisation

Customer: ICTR-NE  
Status: in pullthrough (started December 2010)

MCR lead: [REDACTED]  
Team: [REDACTED]  
(ICTR-NE)

Can we denonymise [TOR](#)? In other words, if given some traffic from a TOR exit node, can we find the IP address of the user associated with that traffic?

## [\[edit\]](#) Research

A circuit tracing attack was first considered. However ICTR-NE signatures run by TSDS showed that our coverage of TOR is too low to have a reasonable chance of doing such an attack; on JTRIG paths we only saw 2 out of 8294 potential inter-TOR-node links.

Instead we are now considering an entry-exit correlation attack. Data collected from ICTR-NE/JTRIG infrastructure showed that some timing structure is preserved between entry and exit node.

## Mathematical Information Processing Research

- [Home](#)
- Tasks:
  - [active](#)
  - [all](#)
  - [in pullthrough](#), [suspended](#), [completed](#)
- [Papers](#)
- [Staff](#)
- Monthly notes:
  - [Current \(open access\)](#)
  - Pre-July 2011: [web RSS](#)
  - [Notes \(pre-2010 limited access\)](#)
- [Our processing user: brule](#)
- [Seminars](#)
- [Software](#)

[v](#) · [d](#) · [e](#)

The successful outcome of this entry-exit correlation attack is documented in [OPC-M/TECH.B/61](#). An R package implementing the attack is available: [src](#), [doc](#).

The work was presented at [SANAR11](#). The slides are [here](#).

We plan to prototype the technique in the [REMATION II](#) workshop. The introductory slides are [here](#).

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[Categories: OPC-MCR MIP task](#) | [OPC-MCR in pullthrough MIP task](#) | [OPC-MCR MIP task for ICTR-NE](#) | [Internet Anonymity](#) | [The Onion Router](#)

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