Welcome to the TaNCAD Wiki!

The Tactical Networked Communication Architecture Design (TaNCAD) lab at NPS focuses on developing advanced network architecture, protocols, and test/analysis tools for challenged communication environments, particularly those found in the tactical domain. TaNCAD is based at the Naval Postgraduate School in Monterey, CA.

Research Projects

- Golocation-Aware DTN Routing
- DTN Technical Readiness
- USMC NOTM DTN Integration
- DTN-cum-IP Integration

News

**IMC Accepts**

Rohrer, Justin (CIV) posted on Jul 31, 2018

I am pleased to report that our IMC submission was accepted! (https://conferences.sigcomm.org/imc/2018/ https://conferences.sigcomm.org/imc/2018/) (Preprint available at: https://arxiv.org/abs/1805.11308) This is a large-scale IPv6 topology mapping effort, aimed at understanding the effect of target selection on infrastructure discovery. Abstract: Existing methods for active topology discovery within the IPv6 Internet largely mirror those of IPv4....

Lab Meetings

**Location:** GE-B10

- **2018 – 06 December:** Status updates
- **2018 – 29 November:** Status updates
- **2018 – 15 November:** Status updates
- **2018 – 08 November:** Thesis (Strelkoff) and status updates. Relevant sections >>

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Members

**Faculty**

- Dr. Justin P. Rohrer – GE-118
- Dr. Robert Beverly – GE-110
- Dr. Geoffrey G. Xie – GE-125

**Staff**

- Mr. Michael Monahan – IN-104
- Mr. Carl Prince – GE-120
- Mr. Riqui Schwamm – GE-237

**Students**

**Current**

- Mr Chan, Jun Liang FORNATL, SN (Summer 2020)
- LCDR Harper, Benjamin (LCDR) (Spring 2020) – Effects of GPS error on geographic routing protocols
- LTJG Samuel Strelkoff (Fall 2019)
- Mr Michael Monahan (Summer 2020) – DTN Implementation measurement and instrumentation

**Former**

- LT Carlos Hargett (Spring 2019)
- Maj Logan, Brent (Maj) (Spring 2019) – SDN Automation of Distributed Firewalls
- LT Jason Brown (Fall 2018) – Machine learning-based DTN routing
- LTJG Garret Walton (Fall 2018) – Rule-based training for reinforcement learning
- LT Kyle Hunter (Fall 2018) – IPv6 tarpit stickiness and scalability improvement
- LT Ryan R. Ferrao (Spring 2018) (Outstanding thesis, Surface Navy award) – Masked underwater acoustic communication
- Mr Dillon Glasser (Spring 2018) – Longitudinal Study of Large-Scale Traceroute Results
- LT Andrew Mauldin (Fall 2017) (With distinction, outstanding thesis, Grace Hopper award) – Comparative analysis of disruption tolerant network routing simulations in the ONE and ns-3
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- 2018 – 01 November: ITC paper presentation (Brown) and status updates
- 2018 – 25 October: IMC paper presentation (Beverly) and status updates
- 2018 – 18 October: MatPlotLib demo and status updates
- 2018 – 11 October: Paper (Hargett) and status updates
- 2018 – 04 October: Status updates
- 2018 – 11 September: ns3 demo (Brown) and status updates
- 2018 – 04 September: mininet demo (Hunter) and status updates
- 2018 – 28 August: Status updates
- 2018 – 21 August: Screen demo and status updates
- 2018 – 14 August: Git demo and status updates
- 2018 – 31 July: LaTeX demo and status updates

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