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 (Volunteer) posted on Jul 31, 2018

I am pleased to report that our IMC submission was accepted! (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-120
- 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 Unknown User (junliang.chan.sn) (Summer 2020)
- LCDR Unknown User (benjamin.harper) (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 Unknown User (belogan) (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 tarpt 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

Lab Meetings
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