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TRANSPORTATION RESEARCH BOARD

TRB Snap Search: Cybersecurity

TRB's involvement in research on Cybersecurity from 2016-2020

The [Transportation Research Board \(TRB\)](#) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

All available Snap Searches can be accessed online here: <http://www.trb.org/InformationServices/Snap.aspx>

TRB Research

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view [search results](#) on TRB published research Cybersecurity within the past four years.

Subject Webpage

- [TRB Cybersecurity Resource Center](#)

Recent Reports & Publications

- [Airport Cooperative Research Program \(ACRP\)](#)
 - [Report 140](#) - Guidebook on Best Practices for Airport Cybersecurity
- [National Cooperative Freight Research Program \(NCFRP\)](#)
 - [Report 39](#) - Freight Transportation Resilience in Response to Supply Chain Disruptions
- [National Cooperative Highway Research Program \(NCHRP\)](#)
 - [Report 931](#) - A Guide to Emergency Management at State Transportation Agencies
 - [Report 930](#) - Security 101: A Physical & Cybersecurity Primer for Transportation Agencies
 - [Web-Only Document 221](#) – (TCRP 67) Protection of Transportation Infrastructure from Cyber Attacks: A Primer
- [Transportation Research Circulars](#)
 - [E-Circular 208](#) - Transformational Technologies in Transportation: State of the Activities
- [Transportation Research Record: Journal of the Transportation Research Board](#)
 - [Volume 2619](#) - Traffic Signal Systems: Volume 1

Current & Upcoming Projects

- [Current Projects](#)
 - [NCHRP 03-127](#) - Cybersecurity of Traffic Management Systems
 - [NCHRP 08-120](#) - Initiating the Systems Engineering Process for Rural Connected Vehicle Corridors
 - [NCHRP 17-91](#) - Assessing the Impacts of Automated Driving Systems (ADS) on the Future of Transportation Safety
 - [NCHRP 20-07/Task 424](#) - AASHTO Guidelines for the Operation of Movable Bridges from Remote Locations
 - [NCHRP 20-102\(10\)](#) - Cybersecurity Implications of CV/AV Technologies on State and Local Transportation Agencies
 - [NCHRP 20-102\(12\)](#) - Business Models to Facilitate Deployment of CV Infrastructure to Support AV Operations
 - [TCRP Synthesis I-07/Topic SA-50](#) - Cyber Security in Transit Systems
- [Upcoming Projects](#)
 - [NCHRP 20-24\(116\)](#) - Guidance on Roles and Responsibilities in Operation of Automated Vehicles
 - [NCHRP 20-102\(14\)](#) - Data Management Strategies for CV/AV Applications for Operations
 - [NCHRP 20-124](#) - Deploying Transportation Security Practices in State DOTs

- [NCHRP 23-02](#) - Secure Information Environments for Collaboration and Knowledge Sharing: Guidance for State DOTs
- [NCHRP 23-03](#) - Targeted Guidance and Information Support to State DOT CEOs on Cybersecurity Issues and Protection Strategies

Reports from the [National Academies Press](#) on Cybersecurity

- [Implications of Artificial Intelligence for Cybersecurity](#)
- [Beyond Spectre: Confronting New Technical and Policy Challenges](#)
- [Robust Machine Learning Algorithms and Systems for Detection and Mitigation of Adversarial Attacks and Anomalies](#)
- [Decrypting the Encryption Debate - A Framework for Decision Makers](#)
- [Recoverability as a First-Class Security Objective](#)
- [Emerging Trends and Methods in International Security](#)
- [Emergency Alert and Warning Systems - Current Knowledge and Future Research Directions](#)
- [Foundational Cybersecurity Research: Improving Science, Engineering, and Institutions](#)

Committees & Panels

[Sign-up to be a committee "Friend"](#)

TRB Standing Committees – Search by transportation mode and committee topic

- [ABR10](#) –Critical Transportation Infrastructure Protection
- [AL040](#) - Emerging Technology Law
- [AV090](#) - Aviation Security and Emergency Management
- [D03127](#) – Cybersecurity of Traffic Signals and Related ITS Equipment
- [D205948](#) – Protection of Transportation Infrastructure from Cyber Attacks
- [DA0502](#) – Airport Cyber Security Best Practices

Task Forces - Search for *task force* under committee here

- [ABJ55T](#) – Data Privacy, Security and Protection Policy
- [AP018T](#) –Transit Safety and Security

Councils

- [A0040T](#) – Young Member Council

Recent and Upcoming Events

[Upcoming Conferences](#)- Left hand menu “upcoming conferences by topic”

(Conferences cosponsored by TRB are denoted with an asterisk.)

[5th Conference of Transportation Research Group of India \(CTRG\)*](#)

December 18-21, 2019

Bhopal, Madhya Pradesh, India

[2020 Joint Rail Conference*](#)

April 20, 2020

St. Louis, Missouri

[Transport Research Arena 2020*](#)

April 27, 2020

Helsinki, Finland

[ITS World Congress 2020*](#)

October 4, 2020

Los Angeles, California

[TRB Transit Safety and Security Conference and APTA Mid-year Safety and Security Seminar](#)

November 16-18, 2020

Washington, DC

[Webinars](#) – View upcoming webinars, suggest a webinar or add registration information

[Past Webinars](#)

- [Leading Future Improvements in Transportation Safety](#) – March 5, 2019
- [Hacks and Attacks: Keeping Critical Transportation Infrastructure Resilient](#) – August 30, 2018

- [Effective Practices for the Protection of Highway Transportation Infrastructure from Cyber Incidents](#) – February 21, 2017

TRB's Transportation Research Information Services (TRIS)

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available free on TRB's website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation - trid.trb.org

Publications Index (PubsIndex) Database – The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - pubsindex.trb.org

Research in Progress (RiP) Database – Current or recently completed transportation research projects - rip.trb.org

Research Needs Statements (RNS) – Research needs as identified by TRB Technical Activities standing committees - rns.trb.org

Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989