TRB Snap Search: Security & Emergencies

TRB’s involvement in research on Security & Emergencies from 2018-2020

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](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 Security & Emergencies within the past two years.

Subject Webpages

- Security & Emergencies Research at TRB
- Transportation in the Face of Communicable Disease

Specialty Report

- Critical Issues in Transportation 2019

Recent Reports & Publications

- Airport Cooperative Research Program (ACRP)
  - Impacts on Practice - Implementing Aircraft Rescue and Firefighting Training at Fresno Yosemite International Airport
  - Legal Research Digest 34 - Airport Public Health Preparedness and Response: Legal Rights, Powers, and Duties
  - Report 201 - Airport Emergency Communications for People with Disabilities and Others with Access and Functional Needs
  - Report 189 - Design Considerations for Airport EOCs
  - Report 188 - Using Existing Airport Management Systems to Manage Climate Risk
  - Report 187 - Transportation Emergency Response Application (TERA) Support Materials for Airport EOC Exercises
  - Research Results Digest 28 - Thought Leader Forum Summary — Emerging Issues for ACRP
  - Synthesis 106 - Airport Risk Identification and Prioritization Practices
  - Synthesis 99 - Emergency Working Groups at Airports
  - Synthesis 95 - Airport Incident Reporting Practices
  - Synthesis 90 - Incorporating ADA and Functional Needs in Emergency Exercises

- Conference Proceedings
  - Proceedings 55 - Airport Roles in Reducing Transmission of Communicable Diseases

- National Cooperative Freight Research Program (NCFRP)
  - Report 39 - Freight Transportation Resilience in Response to Supply Chain Disruptions

- IDEA Safety Program
  - Report 34 - Prototype System for Managing and Analyzing Enterprise Rail Transport Risks of Hazardous Materials

- National Cooperative Highway Research Program (NCHRP)
  - Report 931 - A Guide to Emergency Management at State Transportation Agencies
  - Report 930 - Security 101: A Physical and Cybersecurity Primer for Transportation Agencies

Updated 07/01/2020
• **Report 884** - Guidelines for Managing Geotechnical Risks in Design–Build Projects
• **Research Topic Highlight** – Roadway Tunnels
• **Synthesis 556** - Asset Management Approaches to Identifying and Evaluating Assets Damaged Due to Emergency Events
• **Synthesis 527** - Resilience in Transportation Planning, Engineering, Management, Policy, and Administration
• **Web-Only Document 247** - Managing Geotechnical Risks in Design–Build Projects

• **Special Reports**
  - **Report 329** - Renewing the National Commitment to the Interstate Highway System: A Foundation for the Future

• **Transit Cooperative Research Program (TCRP)**
  - **Legal Research Digest 53** - Legal Considerations in Relationships Between Transit Agencies and Ridesourcing Service Providers
  - **Report 193** - Tools and Strategies for Eliminating Assaults Against Transit Operators, Volume 1: Research Overview
  - **Synthesis 146** - Transit Security Preparedness

**Current & Upcoming Projects**

• **Current Projects**
  - **ACRP 03-55** - Airport Biometrics--A Primer
  - **ACRP 04-19** - Airport Emergency Planning Template: NIMS - Incident Command System Compliance
  - **ACRP 04-23** - Social Media Guidebook for Emergency Management
  - **ACRP 10-26** - Airport Microgrid Implementation Toolkit
  - **ACRP 10-27** - Using Collaborative Decision Making to Enhance the Management of Adverse Conditions, IROPS, and Crises
  - **ACRP 11-01/Topic 10-04** - Updated Survey of Laws and Regulations Applicable to Airport Commercial Ground Transportation
  - **ACRP Synthesis 11-03/Topic S04-24** - Airport Practices in Airport Emergency Plans
  - **ACRP Synthesis 11-03/Topic S04-25** - Escalator Falls
  - **NCHRP 02-26** - Implementation of Life-Cycle Planning Analysis in a Transportation Asset Management Framework
  - **NCHRP 03-127** - Cybersecurity of Traffic Management Systems
  - **NCHRP 03-129** - Essential Communications
  - **NCHRP 08-107** - A Guidebook for Emergency Contracting Procedures for Administration of a Regional Emergency
  - **NCHRP 08-113** - Integrating Effective Transportation Performance, Risk, and Asset Management Practices
  - **NCHRP 10-102** - A Guidebook for Risk-Based Construction Inspection
  - **NCHRP 17-46** - Comprehensive Analysis Framework for Safety Investment Decisions
  - **NCHRP 20-07/Task 239** - Identification and Delineation of Incident Management and Multi-Agency Emergency Response Functions
  - **NCHRP 20-44(02)** - Implementation of the AASHTO Guide for Enterprise Risk Management
  - **NCHRP 20-59** - Surface Transportation Security and Resilience Research
  - **NCHRP 20-59(53)** - FloodCast: A Framework for Enhanced Flood Event Decision Making for Transportation Resilience
  - **NCHRP 20-59(54)** - Transportation System Resilience: Research Roadmap and White Papers
  - **NCHRP 20-59(55)** - Transportation System Resilience: CEO Primer & Engagement
  - **NCHRP 20-116** - Emergency Management in State Transportation Agencies
  - **NCHRP 20-117** - Deploying Transportation Resilience Practices in State DOTs
  - **NCHRP 20-120(10)** - Cybersecurity Implications of CV/AV Technologies on State and Local Transportation Agencies
  - **NCHRP 20-124** - Deploying Transportation Security Practices in State DOTs
  - **TCRP A-36** - Command-Level Decision Making for Transportation Emergency Managers
  - **TCRP F-27** - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation

• **Upcoming Projects**
  - **ACRP 03-57** - A Guidebook to Prepare Airports for Transformations in Wireless Connectivity
  - **ACRP 04-24** - Guidelines to Develop an Anti-Human Trafficking Action Plan for Airports
  - **ACRP 10-29** - Development of Predictive Model of Jet Blast Exposure
- Guidelines for Systematically Evaluating the Effectiveness of an Airport's Wildlife Hazard Management Plan
- Managing an Emergency or Incident Associated with Flight Diversion at Airports
- Incorporating Resilience Concepts and Strategies in Transportation Planning Efforts
- Integrating Resiliency into Transportation System Operations
- Guidelines for Response Planning, Assessment, and Rapid Restoration of Service of Bridges in Extreme Events
- Contingency Factors to Account for Risk in Early Construction Cost Estimates for Transportation Infrastructure Projects
- Design Guidance and Standards for Resilience
- Managing Enhanced Risk in the Mega Project Era
- Support for State DOT Transportation Systems Resilience and All-Hazards Programs
- Development of a Risk Management Strategic Plan and a Research Roadmap
- Strategies for Incorporating Resilience into Transportation Networks
- Business Case and Communications Strategies for State DOT Resilience Efforts
- Emergency Response: Organizational and Operational Models Used by State DOTs
- Scoping Study to Develop the Basis for a Highway Standard to Conduct an All-Hazards Risk and Resilience Analysis
- Prioritization of Risks Related to Connected and Automated Vehicles and Emerging Technologies
- Practices for New Rock Slope Design and Rockfall Mitigation
- Legal Issues and Emerging Technologies
- Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCII)
- Transit Sponsor and Contractor Delay Damages and Remedies Due to Third Parties - Transit Facility Improvements - Common Legal Issues and Solutions
- Legal Issues Surrounding Disasters and Evacuations

Reports from the National Academies Press on Security & Emergencies
- Coronavirus Resources Collection
- Pandemic Resources
- A Strategic Vision for Biological Threat Reduction
- The Convergence of Violent Extremism and Radiological Security
- Privacy and Security in the 21st Century
- The State of Resilience
- Recoverability as a First-Class Security Objective
- Examining Challenges and Possible Strategies to Strengthen U.S. Health Security
- Emergency Alert and Warning Systems
- Emerging Trends and Methods in International Security

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic
- AB000 – Policy and Organization Group
- ABE00 – Transportation Policy
- AMR10 – Critical Transportation Infrastructure Protection
- AMR20 – Logistics of Disaster Response and Business Continuity
- AT040 – Transportation of Hazardous Materials
- AV090 – Aviation Security and Emergency Management
- Disaster Recovery Committees

Task Forces - Search for task force under committee here
- ABJ55T – Data Privacy, Security and Protection Policy
- AP018T – Transit Safety and Security

Councils
- A001C – Young Members Coordinating Council

Panels
- CRP Panels Related to Security & Emergencies
Recent and Upcoming Events

Upcoming Conferences - Left hand menu “upcoming conferences by topic”
(Conferences cosponsored by TRB are denoted with an asterisk.)

**Bridging Transportation Researchers Online Conference***
*August 12, 2020
Online*

**2020 International Conference on Winter Maintenance and Surface Transportation Weather and Winter Maintenance National Peer Exchange**
*September 21, 2020
Atlanta, GA*

**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, 2020
Washington, DC*

Webinars – View upcoming webinars, suggest a webinar or add registration information

Past Webinars
- Security and Emergencies

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](http://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](http://pubsindex.trb.org)

**Research in Progress (RiP) Database** – Current or recently completed transportation research projects - [rip.trb.org](http://rip.trb.org)

**Research Needs Statements (RNS)** – Research needs as identified by TRB Technical Activities standing committees - [rns.trb.org](http://rns.trb.org)

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