TRB Snap Search: Rail

TRB’s involvement in research on Rail from 2021-2022

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 Rail within the past year.

Subject Webpage

- Rail Research at TRB

Specialty Report

- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation

Recent Reports & Publications

- National Cooperative Highway Research Program (NCHRP)
  - Web-Only Document 287 - Planning and Implementing Multimodal, Integrated Corridor Management: Guidebook

- Safety IDEA Program
  - Report 41 - Vibration-based Longitudinal Rail Stress Estimation Exploiting Acoustic Measurement and Machine Learning
  - Report 40 - Using Light to Reduce Fatigue and Improve Alertness in Railway Operations
  - Report 39 - Non-Contact Scour Monitoring System for Railroad Bridges
  - Report 36 - Onboard High-Bandwidth Fiber-Optic Sensing System for Broken Rail Detection

- Special Reports / Consensus Studies

- Transit Cooperative Research Program (TCRP)
  - IDEA Report 92 - Augmented Reality Dispatcher Interface

- Transportation Research Circulars
  - E-Circular 266 - Transportation Asset Management in a COVID-19 World

Current & Upcoming Projects

- Current Projects
  - NCHRP 03-128 - Business Intelligence for Transportation System Management and Operations and Agency Decision Making
  - NCHRP 03-126 - Operational Standards for Highway Infrastructure
Upcoming Projects
- NCHRP 20-116 - Emergency Management in State Transportation Agencies
- NCHRP IDEA 20-30/IDEA 190 - Self-Deicing LED Signal for Railroad and Highway Intersections
- Safety IDEA Project 45 - Development of a Fatigue Load for Railway Bridges
- Safety IDEA Project 44 - Laser-based Non-destructive Spike Defect Inspection System
- Safety IDEA Project 43 - Augmenting Reality for Safer Inspections of Railroad Infrastructure and Operations
- Safety IDEA Project 38 - Fatigue Life Extension of Thernmite Welds by Portosity Minimization
- TCRP A-44 - Strategies for Detering Trespassing on Rail Transit and Commuter Rail Rights-of-Way
- TCRP D-07 - Joint Rail Transit Research with the Association of American Railroads/Transportation Technology Center, Inc.
- TCRP I-11/Task 37 - Transit and Micro-Mobility (Bikeshare, Scooter-share, etc.)

Upcoming Conferences
- TRB Virtual Careers in Motion Networking Fair
  December 8, 2021
Upcoming Events – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

Past Events - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

**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:

- **Transportation Research International Documentation (TRID)** – [trid.trb.org](#) - The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- **Transportation Research Thesaurus (TRT)** – [trt.trb.org](#) – A tool to improve the indexing and retrieval of transportation information.
- **Research in Progress (RiP) Database** – [rip.trb.org](#) - Current or recently completed transportation research projects
- **Research Needs Statements (RNS)** – [rns.trb.org](#) - Research needs as identified by TRB Technical Activities standing committees
- **Publications Index (PubsIndex) Database** – [pubsindex.trb.org](#) - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

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