TRB Snap Search: Aviation

TRB’s involvement in research on Aviation 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](http://www.trb.org/InformationServices/Snap.aspx) on TRB published research Aviation within the past two years.

Subject Webpage

- [Airport Cooperative Research Program](http://www.trb.org/InformationServices/Snap.aspx) at TRB

Recent Reports & Publications

- [Conference Proceedings 55](http://www.trb.org/InformationServices/Snap.aspx) - Airport Roles in Reducing Transmission of Communicable Diseases
- [Conference Proceedings on the Web 24](http://www.trb.org/InformationServices/Snap.aspx) - Challenges to Implementing Successful Land Use Strategies at Airports
- [Conference Proceedings on the Web 23](http://www.trb.org/InformationServices/Snap.aspx) - Economic and Social Sustainability at Airports
- [Impacts on Practice](http://www.trb.org/InformationServices/Snap.aspx) - A New Framework for Ground Transportation at Phoenix Sky Harbor Airport
- [Impacts on Practice](http://www.trb.org/InformationServices/Snap.aspx) - Mitigating Cattle Egret Strikes at Orlando International Airport
- [Impacts on Practice](http://www.trb.org/InformationServices/Snap.aspx) - Building an Asset Management Framework at Cincinnati/Northern Kentucky International Airport
- [Impacts on Practice](http://www.trb.org/InformationServices/Snap.aspx) - Defining Leadership Roles at the Athens-Ben Epps Airport
- [Legal Research Digest 37](http://www.trb.org/InformationServices/Snap.aspx) - Legal Issues Relating to Airports Promoting Competition
- [Legal Research Digest 36](http://www.trb.org/InformationServices/Snap.aspx) - Legal Issues Related to Implementation and Operation of SMS for Airports
- [Legal Research Digest 35](http://www.trb.org/InformationServices/Snap.aspx) - Legal Considerations in the Funding and Development of Intermodal Facilities at Airports
- [Legal Research Digest 34](http://www.trb.org/InformationServices/Snap.aspx) - Airport Public Health Preparedness and Response: Legal Rights, Powers, and Duties
- [Report 208](http://www.trb.org/InformationServices/Snap.aspx) - Benefit–Cost Analyses Guidebook for Airport Stormwater
- [Report 207](http://www.trb.org/InformationServices/Snap.aspx) - Optimizing the Use of Electric Preconditioned Air (PCA) and Ground Power Systems for Airports
- [Report 205](http://www.trb.org/InformationServices/Snap.aspx) - Revolving Funds for Sustainability Projects at Airports
- [Report 204](http://www.trb.org/InformationServices/Snap.aspx) - Air Demand in a Dynamic Competitive Context with the Automobile
- [Report 202](http://www.trb.org/InformationServices/Snap.aspx) - Developing Innovative Strategies for Aviation Education and Participation
- [Report 201](http://www.trb.org/InformationServices/Snap.aspx) - Airport Emergency Communications for People with Disabilities and Others with Access and Functional Needs
- [Report 200](http://www.trb.org/InformationServices/Snap.aspx) - Using GIS for Collaborative Land Use Compatibility Planning Near Airports
- [Report 198](http://www.trb.org/InformationServices/Snap.aspx) - Wetland Mitigation, Volume 2, A Guidebook for Airports
- [Report 197](http://www.trb.org/InformationServices/Snap.aspx) - Guidebook for Developing a Comprehensive Renewable Resources Strategy
- [Report 196](http://www.trb.org/InformationServices/Snap.aspx) - Guidebook for Integrating Collaborative Partnering into Traditional Airport Practices
- [Report 192](http://www.trb.org/InformationServices/Snap.aspx) - Airport Management Guide for Providing Aircraft Fueling Services
- [Research Results Digest 28](http://www.trb.org/InformationServices/Snap.aspx) - Thought Leader Forum Summary—Emerging Issues for ACRP
- [Research Results Digest 27](http://www.trb.org/InformationServices/Snap.aspx) - Legal Aspects of Airport Programs - An Update
- [Synthesis 102](http://www.trb.org/InformationServices/Snap.aspx) - Value, Benefits, and Limitations of Qualifications-Based Selection for Airport Project Delivery

Updated 11/25/2019
Current & Upcoming Projects

- **Current Projects**
  - ACRP 01-35 - Transportation Network Companies (TNCs): Impacts to Airport Revenues and Operations
  - ACRP 01-36 - Advancing the Practice of State Aviation System Planning
  - ACRP 01-37 - Performance Measures for State Aviation Agencies
  - ACRP 01-38 - Market Value Characteristics for Property at Small Airports
  - ACRP 01-39 - Creative Marketing Techniques to Improve Revenue Generation Partnerships
  - ACRP 01-40 - Evaluating the Traveler’s Perspective to Improve the Airport Customer Experience
  - ACRP 01-42 - Review of Airport Governance Structures
  - ACRP 01-43 - Conducting Consumer Research of Air Passengers
  - ACRP 02-82 - Developing a Roadmap to Achieve Zero Emissions at Airports
  - ACRP 02-83 - Measuring Quality of Life in Communities Surrounding Airports
  - ACRP 02-84 - Evaluating the Use of Spatially Precise Diurnal Population Data in Aviation Noise Studies
  - ACRP 02-86 - Understanding Impacts to Airports from Temporary Flight Restrictions
  - ACRP 02-87 - Determining Airfield Pavement Deicer and Anti-Icer Contributions to Airport Stormwater
  - ACRP 03-46 - Implementing Airport Privatization: Guidance for Airport Decision Makers
  - ACRP 03-47 - Rethinking Airport Parking Facilities to Protect and Enhance Non-Aeronautical Revenue
  - ACRP 03-48 - Advanced Ground Vehicle Technologies (AGVT) for Airside Operations
  - ACRP 03-49 - Effective Collaboration to Plan and Respond to Communicable Disease Threats
  - ACRP 03-50 - An Airport-Centric Study of the Urban Air Mobility Market
  - ACRP 03-51 - Electric Aircraft of the Horizon -- An Airport Planning Perspective
  - ACRP 04-23 - Social Media Guidebook for Emergency Management
  - ACRP 06-05 - Guidance for Diversity in Airport Businesses Contracting and Workforce Programs
  - ACRP 06-06 - Cultivating Talent in the Airport Environment
  - ACRP 06-07 - Building Academic Programs to Cultivate Future Airport Industry Professionals
  - ACRP 09-18 - Rapid Airfield Concrete Pavement Slab Replacement and Patching
  - ACRP 09-19 - Airfield Pavement Markings - Effective Techniques for Removal and Temporary Applications
  - 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 10-01 - Update of Compilation of FAA/DOT Airport Legal Determinations
  - ACRP 11-01/Topic 10-02 - Legal Issues Relating to Large Scale Airport Construction Projects
  - ACRP 11-01/Topic 10-03 - Legal Issues Relating to Airport Commercial Contracts
  - ACRP 11-01/Topic 10-04 - Updated Survey of Laws and Regulations Applicable to Airport Commercial Ground Transportation
  - ACRP 11-01/Topic 11-01 - Permissible Uses of Airport Revenue and Property
  - ACRP 11-02/Task 30 - Research Roadmap in the Area of Design and Construction of Airport Facilities and Infrastructure
  - ACRP 11-02/Task 32 - Airport Environmental Research Roadmap
  - ACRP 11-02/Task 35 - Research Roadmap on Administration & Human Resource Issues
  - ACRP 11-02/Task 36 - Research Roadmap on Safety Issues
  - ACRP 11-05 - Tactical Initiatives from the ACRP Strategic Plan
  - ACRP Synthesis 11-03/Topic S01-19 - Data Acquisition and Protocols for Risk Management
  - ACRP Synthesis 11-03/Topic S01-21 - Successful Arts Programs at Airports
  - ACRP Synthesis 11-03/Topic S02-21 - Practices in Airport Renewable Energy Projects
ACRP Synthesis 11-03/Topic S04-21 - Models for Law Enforcement at Airports
ACRP Synthesis 11-03/Topic S04-24 - Practices in Airport Emergency Plans
ACRP Synthesis 11-03/Topic S04-25 - Escalator Falls
ACRP Synthesis 11-03/Topic S06-05 - Promoting Aviation Career Education in High Schools and Community Colleges
ACRP Synthesis 11-03/Topic S06-06 - Airport Workforce Programs Supporting Employee Well-being
ACRP Synthesis 11-03/Topic S10-15 - Evaluating Airport Performance with the Integration of UAS
ACRP Synthesis 11-03/Topic S10-16 - Airport Operations Training at Small Airports

**Upcoming Projects**
- ACRP 01-41 - Blockchain Technology and Airports - A Primer
- ACRP 01-44 - Airport Insurance Requirements
- ACRP 01-45 - Updated Guidebook for Airport Project Delivery Systems
- ACRP 01-46 - Geospatial Data Governance--Organizational Factors and Best Practices
- ACRP 01-47 - Guide to Airport Innovation--Creating an Organizational Fit for the Future
- ACRP 01-48 - Assessing the Effectiveness of Airport Services/Programs for Passengers with Disabilities
- ACRP 02-89 - Industry Survey--Benefits and Costs for Airport Noise And Operations Monitoring Systems
- ACRP 03-52 - Airport Common Use Program Development Guidebook
- ACRP 03-53 - Development of Baggage Handling System Decision Making Framework Based on Total Cost of Ownership
- ACRP 03-55 - Airport Biometrics--A Primer
- ACRP 03-57 - Understanding Coming Improvements and Transformations in Wireless Connectivity: Concepts for Smarter Airports
- ACRP 03-58 - Measuring the Effect of Changes in Air Service Connectivity on Regional Economic Development
- ACRP 04-24 - Airport Contributions to the Study, Investigation, and Interdiction of Human Trafficking
- ACRP 06-08 - Human Factors in Airport Operations
- ACRP 07-17 - Airport Curbside and Terminal Area Roadway Operations
- ACRP 07-18 - Develop Airfield Design Guidelines for Large Unmanned Aerial Systems (UAS)
- ACRP 08-03 - Construction Safety and Phasing Plans
- ACRP 09-20 - Consequences of Delayed Maintenance of Airport Assets
- ACRP 10-29 - Development of Predictive Model of Jet Blast Exposure
- ACRP 11-01/Topic 11-02 - Accommodation of Federal Agencies – Rights and Obligations of Host Airports
- ACRP 11-01/Topic 11-03 - Analysis of Laws, Regulations, and Case Laws Regarding Airport Customer Facility Charges
- ACRP 11-01/Topic 12-01 - Legal Implications of Data Collection at Airports
- ACRP 11-01/Topic 13-01 - Legal Considerations for Telecommunications at Airports
- ACRP 11-02/Task 37 - Periodic Report on Transformative Technology at Airports
- ACRP 11-08 - Task Order Support for ACRP Insight Events
- ACRP 11-08(19-01) - A Forum on Blockchain Technology and Airports
- ACRP 11-08(20-01) - ACRP Insight Event--Future of Aviation
- ACRP 11-08(20-02) - ACRP Insight Event--On-Demand Aviation Services for Passengers and Goods

**Reports from the National Academies Press on Aviation**
- Frontiers of Engineering - Reports on Leading-Edge Engineering from the 2018 Symposium
- Continuous Improvement of NASA's Innovation Ecosystem
- Aeronautics 2050
- In-Time Aviation Safety Management
- Human-Automation Interaction Considerations for Unmanned Aerial System Integration into the National Airspace System

**Committees & Panels**

Sign-up to be a committee "Friend"

**TRB Standing Committees** – Search by transportation mode and committee topic
- AV000 - Aviation Group
- AV010 - Intergovernmental Relations in Aviation
- AV020 - Aviation System Planning
- AV030 - Environmental Impacts of Aviation
- AV040 - Aviation Economics and Forecasting
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, 2019
Bhopal, Madhya Pradesh, India

4th International Conference on Transportation Geotechnics*
August 30, 2020
Chicago, Illinois

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

Past Webinars

TRB’s Transportation Research Information Services (TRIS)

TRIS includes the TRB Library and the TRIS Databases (listed below) which are available for 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 l (202) 334-2989