

TRANSPORTATION RESEARCH BOARD

Why Use The Transportation Research Thesaurus (TRT)

Your Multi-Tool for Finding and Organizing Transportation Information

Janet Daly
Indexing Manager

In this video, you'll learn:

- what the TRT is
- why the TRT is useful for finding transportation information
- how the TRT is being used by agencies & organizations



Transportation Research Thesaurus

The TRT is:

Large
Comprehensive
Targeted
Organized
Flexible
Easy to Find; Free to Use

trt.trb.org



TRID

the TRIS and ITRD database



Research in Progress

Research Needs Statements



TRB Publications Index



Practice-Ready Papers



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Your Search

1. **Statistical Characteristics of Wrong-Way Driving Crashes on Illinois Freeways** 2015-11
Traffic Injury Prevention, Volume 16, Issue 8, 2015, pp 760-767
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International Journal of Crashworthiness, Volume 20, Issue 6, 2015, pp 524-534
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3. **PROJECT: Investigating the Relationship Between Driving Patterns and Traffic Safety Using Smartphone-Based Mobile-Sensor Data** 2015-10-01
Virginia Department of Transportation, \$71967, 2015, Active
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4. **Fuzzy Cluster-Based Method of Hotspot Detection with Limited Information** 2015-10
Journal of Transportation Safety & Security, Volume 7, Issue 4, 2015, pp 307-323
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5. **PROJECT: Statewide Analysis of Bicycle Crashes** 2015-09-16
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6. **Analysis and Treatment of Mountain Roads' Dangerous Sections** 2015-09
Fifth International Conference on Transportation Engineering, 2015, pp 1161-1167
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7. **Analysis of Visual Adaptability in the Threshold Zone of Tunnels** 2015-09
Fifth International Conference on Transportation Engineering, 2015, pp 1237-1244
Actions: [Preview Abstract](#) | [View Full Document](#)
8. **Asymptotic Throughput Capacity Analysis of VANETs Exploiting Mobility Diversity** 2015-09
IEEE Transactions on Vehicular Technology, Volume 64, Issue 9, 2015, pp 4187-4202
Actions: [Preview Abstract](#) | [View Full Document](#)
9. **Coordinated Tethering Over White Spaces** 2015-09
IEEE Transactions on Vehicular Technology, Volume 64, Issue 9, 2015, pp 4170-4179
Actions: [Preview Abstract](#) | [View Full Document](#)
10. **Analysis of the Safety of the Linchuan Section on Donglin Highway** 2015-09
Fifth International Conference on Transportation Engineering, 2015, pp 2986-2992
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Keywords:

Index Terms:

Result Type:

Languages:

 English German
 French Spanish

Date:

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Use YYYY or YYYYMM format

Sort by:

Sort order:

Records per page:

[Modify](#) | [New Search](#) | [History](#)

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Your Search

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- Locally analysing the risk factors for fatal single vehicle crashes hot spots in Western Australia** 2015-11
International Journal of Crashworthiness, Volume 20, Issue 6, 2015, pp 524-534
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 - Analysis of Visual Adaptability in the Threshold Zone of Tunnels** 2015-09
Fifth International Conference on Transportation Engineering, 2015, pp 1237-1244
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Keywords:

Index Terms Contain:

Result Type:

Languages:

-
- English
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- German
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- French
-
- Spanish

Date:

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Sort by:

Smart growth (Epdums)

Broader Term

Land use planning

Narrower Terms

Livability

Related Terms (Associative)

Sustainable Development

Urban Growth

TRANSPORTATION AGENCIES AND UNIVERSITIES ARE USING THE TRT TO:

ORGANIZE INFORMATION

- Using as the controlled vocabulary for their own library database
- Creating subject access to an intranet database of agency policies
- Indexing photograph archives
- Seeding content management systems taxonomies

FIND INFORMATION

- Teaching patrons and customers how to search
- Text mining to uncover trends and patterns in research

Questions? Help?
tris-trb@nas.edu

TRANSPORTATION RESEARCH BOARD

Super Searching with the Transportation Research Thesaurus (TRT)

Your Multi-Tool for Finding and Organizing
Transportation Information

Janet Daly
Indexing Manager

Transportation Research Thesaurus

In this tutorial, you will learn:

- What the TRT is
- Where to find it
- How to use it most efficiently

TRT Home

About the TRT

Hierarchical View

Alphabetical View

KWOC View

TRT Home

TRT Keywords:

Search

What is the TRT?

- Vocabulary of ~12,000 transportation-related terms.
- All modes and aspects of transportation
- Updated regularly to include new terms and concepts
- Location: trt.trb.org or side navigation bar of TRIS databases, including TRID (trid.trb.org)
- Records in the TRIS databases are tagged with TRT terms

TRT Facets

A: Transportation

B: Transportation operations

C: Management and organization

D: Communication and control

E: Planning and design

F: Construction and maintenance

G: Testing

H: Safety and security

J: Environment

K: Economic and social factors

M: Persons and personal characteristics

N: Organizations

P: Facilities

Q: Vehicles and equipment

R: Materials

S: Physical phenomena

T: Disciplines

U: Mathematics

V: Areas and regions

W: Time

X: Information organization

Safety and security (H)

Safety (Ha)

Use For: Public safety; Safety measures

Transportation safety (Haa)

Related Term (Associative):

Aviation safety (Haaa)

Use For: Flight safety

Related Term (Associative): Cockpit resource management (Brcc)

Marine safety (Haam)

Maritime safety (Haamm)

Pipeline safety (Haap)

Use For: Pipeline accidents; Pipeline incidents

Railroad safety (Haar)

Traffic safety (Haat)

Related Term (Associative): ; Traffic conflicts (Bthc)

Highway safety (Haath)

Use For: Road safety

Work zone safety (Haathw)

Related Term (Associative): Shadow vehicles (Qtpbmq)

Trucking safety (Haatk)

Transit safety (Haau)

Vehicle safety (Haav)

Related Term (Associative): ; Vehicle operations (Br); Occupant protection devices (Qpq)

Escape systems (Haava)

Fleet safety (Haavf)

Recall campaigns (Haavr)

Vehicle fitness (Haavs)

Related Term (Associative):

Airworthiness (Haavsf)


Crashworthiness (Haavsg)

Seaworthiness (Haavsh)

Transportation Research Thesaurus


[TRT Home](#)

TRT Keywords:



Number of terms found: 1

Accident prone locations USE High risk locations (Hbkga)



Term Details

TRT Keywords:

Search

[Display Hierarchical](#) | [Alphabetical](#) | [KWOC](#) | [KWIC](#)

[Top Terms](#) > [Safety and security](#) > [Crashes](#) > [Crash characteristics](#) > [Crash locations](#) > **High risk locations**

High risk locations (Hbkga)

Use For

Accident black spots

Accident prone locations

High accident locations

Hotspot

Broader Term

[Crash locations \(Hbkg\)](#)

Narrower Terms

[Roadside hazards \(Hbkgar\)](#)

Related Terms (Associative)

[Risk \(Hk\)](#)



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narrower TRT terms:
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Term Details

TRT Keywords:

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High risk locations (Hbkg)

Use For

Accident black spots

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High accident locations

Hotspot

Broader Term

[Crash locations \(Hbkg\)](#)

Narrower Terms

[Roadside hazards \(Hbkgar\)](#)

Related Terms (Associative)

[Risk \(Hk\)](#)

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1 of 128 pages 




- [1. Vehicle trajectory at curved sections of two-lane mountain roads: a field study under natural driving conditions](#)
European Transport Research Review, Volume 10, Issue 1, 2018, 16p 2018-03
- [2. Application of Fractal theory for crash rate prediction: Insights from random parameters and latent class tobit models](#)
Accident Analysis & Prevention, Volume 112, 2018, pp 30-38 2018-03
- [3. Identifying traffic accident black spots with Poisson-Tweedie models](#)
Accident Analysis & Prevention, Volume 111, 2018, pp 147-154 2018-02
- [4. Using Medico-Legal Data to Investigate Fatal Older Road User Crash Circumstances and Risk Factors](#)
Traffic Injury Prevention, Volume 19, Issue 2, 2018, pp 133-140 2018-02
- [5. Speed limit reductions to support lower SCRIM investigatory levels](#)
, Issue 636, 2018, 77p 2018-02
- [6. PROJECT: Automated Analysis of Wildlife-Vehicle Conflict Hotspots Using Carcass and Collision Data](#)
National Center for Metropolitan Transportation Research, \$124000, 2018, Active 2018-01-01
- [7. The Political Economy of Road Safety: Case Study of Bogotá](#)
Transportation Research Board 97th Annual Meeting, 2018, 22p 2018
- [8. Development of a Crash Risk Scoring Tool for Pedestrian and Bicycle Projects in Oregon](#)
Transportation Research Board 97th Annual Meeting, 2018, 17p 2018
- [9. A Novel Technique to Identify Hot Zones for Active Commuters Crashes](#)
Transportation Research Board 97th Annual Meeting, 2018, 19p 2018
- [10. Modeling Animal-Vehicle Collisions Using Empirical Bayes Method Based on the Negative Binomial Models](#)
Transportation Research Board 97th Annual Meeting, 2018, 4p 2018
- [11. Hotspot Identification in an Urban Network: A Comparison Among Four](#)

Keywords 

NN:Hbkga


Title 


Serial or Conference 

Subject Areas 

Administration and Management
Aviation
Bridges and other structures
Construction

- Match Any Subject Listed
- Match All Subjects Listed


Paper, Report, Contract or Grant Numbers 

Source 

- All sources -

Index Term 


Organization 

Person 

Title: Fuzzy Cluster-Based Method of Hotspot Detection with Limited Information

Accession Number: 01568712

Record Type: Component

Record URL: <http://dx.doi.org/10.1080/19439962.2014.959583> 

Availability: Find a library where document is available
Order URL: <http://worldcat.org/issn/19439962>

Abstract: In the absence of geometric design and traffic data, hot-spot identification (HSID) is done primarily with crash data only, based on techniques such as crash frequency (CF), fatal crash frequency (FCF), or equivalent property damage only (EPDO), despite the known limitations of these techniques. In this article, the authors propose an improved HSID technique that may be used with crash data only. Using disaggregate crash history information, this method estimates probabilities of crash severities by the major contributing factors using severity models. These probabilities are used to compute expected numbers of severe and fatal crashes at various locations which are then used to classify the locations into two fuzzy cluster, namely hotspot and non-hotspot using Fuzzy C-Means (FCM) algorithm. The identified hotspots are ranked based on their mean departure from the core of the hotspot cluster. These rankings are compared with rankings done using existing techniques namely CF, FCF, EPDO, and Empirical Bayes' (EB). The proposed method is found to be a robust method for hotspot detection with performance better than existing methods that use crash data only and comparable to the EB method.



Supplemental Notes: Abstract reprinted with permission of Taylor & Francis.

Language: English

Authors: Bandyopadhyaya, Ranja
Mitra, Sudeshna

Pagination: pp 307-323

Publication Date: 2015-10

Serial: **Journal of Transportation Safety & Security**
Volume: 7
Issue Number: 4 
Publisher: Taylor & Francis
ISSN: 1943-9962
EISSN: 1943-9970
Serial URL: <http://www.tandfonline.com/loi/utss20#.U2qTJPIdWCm> 

Media Type: Web

Features: References

TRT Terms: **Crash characteristics; Crash rates; Crash severity; Fuzzy algorithms; High risk locations; Risk assessment**



Questions?

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