

INTRODUCTION

The main bibliography categories follow the issue and data categories described in the text. A very large number of references are available that have *some* bearing on issues of human factors in traffic accidents. The goal was to restrict this bibliography to those references that provide specific data on human performance in roadway traffic situations or useful summaries of data and human performance issues. Even under these restrictions, selection has been a difficult process; keeping the bibliography in reasonable bounds has been a much more difficult task than simply listing everything that might be useful! Some general sources have been listed under the Reference heading; otherwise reference to general texts, books and symposia has been restricted. For some of the topic areas, I have found it necessary to divide each main issue and data category into subcategories in order to help organize the many references.

The existence of many specialized subtopics presents another dilemma - an accident may involve a very specific topic for which studies may exist, but for which none of the studies or reports can serve as adequate summaries or overviews. Examples include effectiveness of arrow boards for work zone traffic control, monocular vision and driving and effectiveness of pedestrian signals. Including all such references tends to make the bibliography large, leaving them out or including only one or two tends to mislead.

When multiple references exist to a single research study, such as a final report as well as a journal article, I have used the journal article which will usually contain a reference to the report. Also, in the case of handbooks and other references with multiple editions, I have generally only given the latest edition.

The present compilation is a first cut in which I have erred at including too much in some areas as well as too little in others in the hope that I can get help in refining the selection, in the elimination of excess baggage as well as including important references missed. Some more recent references that would be useful, especially from the ITS literature have not yet been included. Also, individual chapters from various handbooks and other general references need to be added.

REFERENCE (REF)

This category includes texts, handbooks and other general references relating to human performance in roadway traffic situations or of general human factors interest that is applicable to traffic safety issues.

PERCEPTION-REACTION TIME (PRT)

This references include driver braking and steering control responses to expected and unexpected stimuli and emergency decision making. Issues involving perception and decision time in complex situations are contained in the decision (DEC), workload (WKL) or vehicle user/highway interaction (HWY) categories.

DECISION (DEC)

This category includes cognitive functions, response to complex decision and perceptual situations, car-following, passing, navigation, etc.

Unclassified
Decision sight distance
Risk taking
Hazard response
Car following and speed estimation
Overtaking
Gap acceptance
Response to traffic signals and intersections

USER PSYCHOLOGICAL CHARACTERISTICS (DRV)

This category includes issues involving personality, gender, risk-taking, accident risk factors, emotion, attitude, intelligence, memory, cultural background, perceptual orientation, memory, training, familiarity, safety knowledge, etc.

General
Accidents and driver characteristics
Risk-taking and stress
Experience and training
Gender

USER PHYSICAL AND PHYSIOLOGICAL CHARACTERISTICS (PHY)

This category includes workspace design, anthropometry, strength, etc.

USER MEDICAL/HEALTH CHARACTERISTICS (MED)

This category includes cognitive deficits, visual deficits, medical conditions affecting driving performance, licensing practices and testing for medically related deficits, etc.

General
Standards and evaluation
Visual disabilities
Other medical and mental disabilities

WORKLOAD (WKL)

This category includes visual search, traffic attentional demands, driving task demands, information processing demands, distraction, etc.

Visual search
Distraction
Task and workload analysis

FATIGUE (FAT)

This category includes attentional lapses, lack of sleep effects, time-on-task effects, circadian effects, shift work, readiness to work evaluation, physical demands of task, etc.

General
Accident correlations
Time of day, shift-work and circadian rhythm
Lack of sleep, time-on-task
Monotony
Professional driving and fatigue
Drug and alcohol interaction
Sleep disorders
Resting effects
Counter measures

VISIBILITY AND CONSPICUITY (VIS)

This category includes nighttime and daytime visibility, vehicle lighting and reflective devices, glare effects, issues of conspicuity versus visibility, environmental effects on visibility, photographic depiction of visibility, etc.

General
Dusk, dawn and low light levels
Accident correlations
Sign visibility, conspicuity, and legibility

Delineation and roadway surface
Street lighting
Vehicle visibility and conspicuity
Glare and light/dark adaptation
Headlighting
Adverse visibility
Pedestrian visibility

FIELDS OF VIEW (FOV)

This category includes effects of available fields of view, functional requirements for direct and indirect visibility, mirrors and other indirect visibility devices, etc.

AUDITION (AUD)

This category includes audible warnings, auditory information presentation, response to emergency sirens, etc.

USER/HIGHWAY INTERACTION (HWY)

This category includes response to traffic signals, signing, delineation, roadway geometry, work zones, positive guidance principles and expectancy issues related to highway and traffic control device configuration, etc.

General
Expectancy and positive guidance
Accident correlation with highway characteristics
Signing effectiveness
Response to delineation and road surface devices
Geometrics and sight distance
Traffic signals and flashing beacons
Driver information needs
Work zone traffic control
Roadside features
Speed and speed differential
Scene complexity
Pavement dropoff

USER/VEHICLE INTERACTION (VEH)

This category includes familiarity with vehicle, transfer of training, control design, vehicle control and guidance, etc.

AGE-RELATED PERFORMANCE (AGE)

This category includes studies in which age and performance is the primary focus, including younger as well as older drivers.

DRUGS (DRG)

This category includes effects of drugs and alcohol on user performance.

General

Alcohol and performance

Other drugs and performance (including interactions)

Epidemiological

Pharmacology

Drugs and fatigue / time-of-day

Professional driving

PEDESTRIANS (PED)

This category includes pedestrian visual search, response to traffic control devices, walking and running speeds, crosswalk effectiveness, etc.

RAILROAD GRADE CROSSINGS (RLR)

This category includes all aspects of signals, warnings, visibility and driver behavior specific to grade crossings.

REFERENCE (REF)

This category includes texts, handbooks and other general references relating to human performance in roadway traffic situations or of general human factors interest that is applicable to traffic safety issues

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PERCEPTION-REACTION TIME (PRT)

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DECISION (DEC)

This category includes cognitive functions, response to complex decision and perceptual situations, car-following, passing, navigation, etc.

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USER PSYCHOLOGICAL CHARACTERISTICS (DRV)

This category includes issues involving personality, gender, risk-taking, accident risk factors, emotion, attitude, intelligence, memory, cultural background, perceptual orientation, memory, training, familiarity, safety knowledge, etc.

General

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WORKLOAD (WKL)

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VISIBILITY AND CONSPICUITY (VIS)

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