

Institute of Transportation Studies  
University of California at Berkeley

**Sources of Information in Intelligent Transportation Systems:  
A Bibliography**

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## FOREWORD

This bibliography is intended to serve as a guide to sources of information in Intelligent Transportation Systems. While it focuses primarily on U.S. and Canadian publications, some international materials have been included. Emphasis is on current publications, however, some materials of historical interest have also been included. Although the term ITS (Intelligent Transportation Systems) is considered to be the more current terminology, the term IVHS (Intelligent Vehicle Highway Systems) has been retained and used when appropriate to reflect older publications of historical significance.

This bibliography is based primarily on the holdings of the Harmer E. Davis Transportation Library at the Institute of Transportation Studies, University of California at Berkeley. References for electronic publications and web sites are current as of March 2001.

The electronic version of this bibliography is a component of the 5<sup>th</sup> edition of Sources of Information in Transportation, a collaborative effort by members of the Transportation Division of the Special Libraries Association.

It is anticipated that this new edition of Sources of Information in Transportation will be mounted on the Internet by Fall 2001. Its address will be available at the Division's web site at: <http://www.library.nwu.edu/transportation/slatran/>

The compiler wishes to thank fellow librarians Michael Kleiber, Daniel Krummes, Catherine Cortelyou, and John Gallwey for their advice and assistance. Thanks are also extended to Paul Hernandez and Paul Atwood for their technical expertise.

## **BASIC REFERENCES**

### **Part One - Print Resources**

Barfield, Woodrow and Thomas A. Dingus. **Human Factors in Intelligent Transportation Systems.** Mahwah, NJ: Lawrence Erlbaum Associates, 1997. 458 p.  
*Discusses human factors issues that relate to the design and use of Intelligent Transportation Systems.*

Canada. Transport Canada. **Intelligent Transportation Systems Architecture for Canada.** Ottawa: Transport Canada, 2000.  
*Provides a unified framework for integration to guide the coordinated deployment of Canadian ITS programs within the public and private sectors. Describes interaction among physical components of the transportation systems; information and communication systems requirements; how data should be shared and used; and the standards required to facilitate information sharing.*

Catling, Ian, ed. **Advanced Technology for Road Transport : IVHS and ATT.** Boston, MA: Artech House, 1994. 376 p.  
*Presents a detailed historical overview of topics related to Intelligent Vehicle Highway Systems. Although focus is on European developments and programs, U.S. and Japanese efforts are also included.*

Chen, Kan and John Collingwood Miles, eds. **ITS Handbook 2000 : Recommendations from the World Road Association (PIARC).** Boston, MA: Artech House, 1999. 434 p.  
*Covers concepts, functions, system requirements, institutional issues, and evaluations of ITS costs, benefits, and performance. Features data from case studies and country profiles.*

Diebold, John. **Transportation Infrastructures : The Development of Intelligent Transportation Systems.** Westport, CT: Greenwood Publishing Group, Inc., 1995. 224 p.  
*Presents a policy-oriented overview of ITS, discussing potential benefits and obstacles to development. Covers ITS experiences in the U.S., Europe and Japan. Contains essays from additional authors.*

Drane, Chris R. and C. Rizos. **Positioning Systems in Intelligent Transportation Systems.** Boston, MA: Artech House, 1997. 369 p.

*Examines the role of positioning systems in ITS, the major types of positioning systems, the relationships between them, and methods for evaluating their performance.*

Elliott, Scott D. and Daniel J. Dailey. **Wireless Communications for Intelligent Transportation Systems.** Boston, MA: Artech House, 1995. 405 p.

*Presents a comprehensive review of wireless communications systems and their applications to ITS. Covers mobile, microwave, satellite, meteor burst, and personal communication systems.*

Euler, Gary. **“Intelligent Transportation Systems,”** in Traffic Engineering Handbook. Washington, D.C.: Institute of Transportation Engineers, 1999. 5<sup>th</sup> ed., pp. 642-688.

*This chapter provides an excellent overview of ITS. Discusses the history of the national ITS program, describes ITS concepts in four broad areas, and discusses major considerations in the implementation of the technologies.*

Euler, Gary W. and H. Douglas Robertson, eds. **National ITS Program Plan.** Washington, D.C.: ITS America, 1995. 4 vol.

*Designed to guide the development and deployment of ITS in the U.S. Consists of four documents: Executive Summary, Synopsis, and Volumes I and II.*

French, Robert L. **A Comparison of IVHS Progress in the United States, Japan and Europe through 1993.** Washington, D.C.: IVHS America, 1994. v.p.

*Presents a comparative historical analysis of IVHS progress in Europe, Japan and the U.S. Compares key initiatives and accomplishments from the 1960s through 1993.*

Garrison, William L. and Jerry D. Ward. **Tomorrow’s Transportation : Changing Cities, Economies, and Lives.** Boston, MA: Artech House, 2000. 316 p.

*Real-world case studies are used to show how ITS technologies are solving problems and how emergent technologies can lead to further ITS success*

Gerondeau, Christian. **Transport in Europe.** Boston, MA: Artech House, 1997. 432 p.

*Examines all forms of road, freight, maritime and air transportation, with an emphasis on worldwide policies and the need for change. ITS are discussed in terms safety, traffic management, user information, freight and fleet management, and automated highways.*

Ghosh, Sumit and Tony Lee. **Intelligent Transportation Systems : New Principles and Architectures.** Boca Raton, FL: CRC Press, 2000. 192 p. + 1 computer laser optical disc.

*Focuses on the design of distributed algorithms for the control and coordination of ITS.*

Institute of Transportation Engineers. **A Compendium of Articles on Intelligent Vehicle Highway Systems : Compiled From Publications of the Institute of Transportation Engineers.** Washington, D.C.: Institute of Transportation Engineers, 1993. v.p.

*Contains selected articles on IVHS published during 1990-1993 in either the ITE Journal or the Compendium of Technical Papers from the ITE Annual Meetings or Mid-Year Conferences.*

Institute of Transportation Engineers. **Intelligent Transportation Primer.** Washington, D.C.: Institute of Transportation Engineers, 2000. v.p.

*Produced through a partnership representing academia, industry and the government. Presents a comprehensive review of ITS, with a range of topics, such as traffic and vehicle control, standards, system architecture, telecommunications, and traveler information. Appendices contain a glossary and a list of acronyms.*

Institute of Transportation Engineers. Committee on Operations and Management of Intelligent Transportation Systems. **Management and Operations of Intelligent Transportation Systems.** Washington, D.C.: Institute of Transportation Engineers, 1999. 64 p.

*This is a "Recommended Practice", containing guidelines for ITS operations and management needs and practices.*

**Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA), Title VI, Part B, Section 6054(b).** Washington, D.C.: U.S. Government Printing Office, December 1991.

*This legislation officially established a national IVHS Program, creating funds for a 6-year authorization period. Contains the mandate for an automated highway system to be demonstrated by 1997.*

**ITS Technology Collection on CD-ROM : SAE's Essential Resource for ITS Vehicle Applications.** Warrendale, PA: Society of Automotive Engineers, 1998. 2 computer laser optical discs.

*Contains full-text images of every ITS-related paper presented at the SAE meetings from 1967 through 1997. Includes a searchable database which can be accessed by keywords in title and abstracts, subject, author or document number.*

IVHS America. **Strategic Plan for Intelligent Vehicle-Highway Systems in the United States.** Washington, D.C.: IVHS America, 1992. v.p.

*This is one of the first documents designed to guide the development and deployment of IVHS in the U.S. Considered to be a blueprint, the plan covers goals and objectives, deployment, suggested roles for participants, a course of action, and cost estimates for a 20-year time period.*

Jurgen, Ronald K. (ed) **Navigation and Intelligent Transportation Systems.** Warrendale, PA: Society of Automotive Engineers, 1998. 340 p.

*Contains a selection of papers dealing with the technical and functional aspects of ITS and navigation systems. This volume, no. 72 of SAE's Progress in Technology (PT) series, covers SAE papers dating from 1992 through 1998.*

McQueen, Bob and Judy McQueen. **Intelligent Transportation Systems Architectures.** Boston, MA: Artech House, 1999. 467 p.

*Presents a non-technical introduction, using a "cooperative development approach", to ITS. Covers areas dealing with system architecture, standards, finance, and procurement.*

**Mobility 2000 Presents Intelligent Vehicles and Highway Systems : 1990 Summary.** College Station, TX: Texas Transportation Institute, 1990. 20 p.

*This document, stemming from the Mobility 2000 National Workshop on IVHS, is considered to be one of the first "most effective succinct descriptions" of IVHS. Describes 11 action items that established the backbone of the national program.*

Nwagboso, Christopher O., ed. **Advanced Vehicles and Infrastructure Systems : Computer Application, Control, and Automation.** New York, NY: John Wiley & Sons, 1997. 502 p.

*Contains presentations on intelligent vehicles and automated traffic systems, from an international panel of experts in the transportation industry and academia.*

Ozbay, Kaan and Pushkin Kachroo. **Incident Management in Intelligent Transportation Systems.** Boston, MA: Artech House, 1999. 248 p.

*Presents a review of incident management support tools and models as they are applied to ITS.*

Shibata, Jun and Robert L. French. **A Comparison of Intelligent Transportation Systems Progress Around the World Through 1996.** Washington, D.C.: ITS America, 1997. 174 p.

*Provides an international comparison of ITS through 1996. Designed as a supplement and update to the original assessment published by French in 1994. ITS activities in both established and emerging countries are described.*

Shuman, Valerie. **Primer on Intelligent Vehicle Highway Systems.** Washington, D.C.: Transportation Research Board, National Research Council, 1993. 58 p.

*Offers a source of basic information on IVHS terminology, technologies, and activities. Focus is on the U.S., with additional sections describing the state of IVHS in Canada, Europe, and Japan. Covers major U.S. operational field tests, standards-setting organizations, and federal agencies involved in IVHS. Contains historically significant information. Second half of the Primer is an IVHS glossary.*

Sussman, Joseph. **Introduction to Transportation Systems.** Boston, MA: Artech House, 2000. 470 p.

*Designed as a graduate level introduction to transportation systems in general, their context, concepts, and characterizations. A chapter gives a solid overview of ITS by examining history, legislation, the functional areas of ITS, institutional issues, and future visions.*

**Transportation Efficiency Act for the 21<sup>st</sup> Century (TEA-21), Title V, Subtitle C, Sec. 5201-5213.** Washington, D.C.: U.S. Government Printing Office, 1998.

*This legislation authorized continued funding for ITS programs for FYs 1998-2003. Promotes the National ITS Program Plan, architecture and standards, research and development, integration, and infrastructure deployment.*

United States. Department of Transportation. **The National ITS Architecture : A Framework for Integrated Transportation into the 21<sup>st</sup> Century. Version 3.0** Washington, D.C.: U.S. Department of Transportation, 2000. 1 computer laser optical disc. Also available at: <http://www.iteris.com/itsarch>; Internet; Accessed March 2001.

*This CD-ROM contains the complete set of the National ITS Architecture documents.*



United States. Department of Transportation. Volpe National Transportation Systems Center. **Advanced Public Transportation Systems: The State of the Art Update 2000**. Washington, D.C.: U.S. Federal Transit Administration, 2000. v.p.

*Describes the extent of adoption of new technologies in the public transportation industry in the U.S. and Canada. This is the latest edition in the series of State of the Art reports. Technologies discussed cover areas such as traveler information, fleet management, and electronic fare payment. Issued every two years.*

United States. Federal Highway Administration. Office of Operations Technology Services. **Intelligent Transportation Systems Awareness CD-ROM**. Washington, D.C.: U.S. Federal Highway Administration, 1999. 1 computer laser optical disc.

*Gives an overview of ITS to meet state and local transportation planning efforts. Examines strategies and plans for implementation, and presents examples of successful deployment. Provides links to further Internet resources.*

United States. Joint Program Office for Intelligent Transportation Systems. **Department of Transportation's Intelligent Transportation Systems (ITS) Projects Book**.

Washington, D.C.: U.S. Department of Transportation. Intelligent Transportation Systems Joint Program Office, 1995- . Annual. Since 1998, also available at: <http://www.its.dot.gov/itsweb/welcome.htm>; Internet; Accessed March 2001.

*Directory of ITS projects, tests, and studies, initiated through September 30 of each year, which are partially or totally financed from U.S. federal funds. Organized by subject categories. Each entry contains information on the project description, location, partners, start and end dates, estimated total project cost and ITS Program funds, and contacts.*

United States. Joint Program Office for Intelligent Transportation Systems.

**Implementation of the National Intelligent Transportation Systems Program : Report to Congress**. Washington, D.C.: U.S. Joint Program Office for Intelligent Transportation Systems. Irregular. 1992- .

*Title varies. Summarizes the progress of the national ITS program. Each report updates previous reports, highlights specific accomplishments, and discusses challenges and strategies.*

United States. Joint Program Office for Intelligent Transportation Systems. **Intelligent Transportation Systems Greatest Hits**. Washington, D.C.: U.S. Joint Program Office for Intelligent Transportation Systems, 1999.1 computer laser optical disc.

*CD-ROM containing a compilation of full-text documents frequently requested from the Electronic Document Library (EDL) web site.*

U.S. Joint Program Office for Intelligent Transportation Systems. **National Intelligent Transportation Systems Program Plan : Five-Year Horizon**. Washington, D.C.: U.S. Federal Highway Administration, 2000. 108 p. Also available at:

[http://www.itsdocs.fhwa.dot.gov/jpodocs/repts\\_pr/97r01!.pdf](http://www.itsdocs.fhwa.dot.gov/jpodocs/repts_pr/97r01!.pdf); Internet; Accessed March 2001.

*Presents the Department of Transportation's goals, key activities, and milestones for the National ITS Program for FY 1999 through 2003. Provides an updated vision of the National ITS Program Plan, but does not supersede it. This 5-year plan will be followed by a 10-year program plan that sets forth the next-generation research agenda for ITS.*

Whelan, Richard. **Smart Highways, Smart Cars**. Boston, MA: Artech House, 1995. 231 p.

*Provides a non-technical history and overview of the IVHS initiative in the U.S. Also presents details of IVHS activities and developments in Europe and Japan.*

Zhao, Yilin. **Vehicle Location and Navigation Systems**. Boston, MA: Artech House, 1997. 345 p.

*Focuses on the principles and practices of vehicle location and navigation systems and their application to ITS.*

## **Part Two - Internet Resources**

**Access ITS: the International ITS Information Clearinghouse.**

Available at: <http://www.itsa.org>; Internet; Accessed March 2001.

*Web site for ITS America, the leading ITS organization in the U.S. Current events related to ITS are summarized, with links to further information on specific topics. Documents and minutes of ITS America committee meetings are accessible. Certain features available only to members.*

Canada. Transport Canada. Surface Transportation Policy Group. **Intelligent Transportation Systems Reports and Publications**. Available at: [http://www.its-sti.gc.ca/en/its\\_reports\\_and\\_publications.htm](http://www.its-sti.gc.ca/en/its_reports_and_publications.htm); Internet; Accessed March 2001.

*Lists documents on ITS produced for Transport Canada. Most are downloadable in PDF format.*

Canada. Transport Canada. Transportation Development Centre. **TDC Project Directory. Intelligent Transportation Systems.** Available at: <http://www.tc.gc.ca/tdc/projects/its.htm>; Internet; Accessed March 2001.

*Lists research projects being carried out by the Transportation Development Centre in the area of ITS.*

Canada. Transport Canada. Transportation Development Centre. Publications. **Intelligent Transportation Systems.** Available at: <http://www.tc.gc.ca/tdc/publicat/listing.htm#its>; Internet; Accessed March 2001.

*Lists research reports available from the Transportation Development Centre. Reports from 2000 onward are available for download in PDF format.*

**ERTICO.** Available at: <http://www.ertico.com/index.htm>; Internet; Accessed March 2001.

*Web site for ERTICO, an international public/private partnership for ITS in Europe formed in 1991 at the initiative of leading European businesses, national governments, and the European Commission. Provides information on recent ITS-related news, activities, members, contacts, jobs, congresses, and publications.*

**ETTM on the WEB.** Available at: <http://www.ettm.com>; Internet; Accessed March 2001.

*This web site provides information on Electronic Toll Collection and Traffic Management (ETTM), a component of ITS. It features links to toll facilities in the U.S., current events and news articles relating to Electronic Toll Collection (ETC) systems, and links to ETC systems, ITS sites, and maps of toll facilities.*

**ICivilEngineer.com.** Available at: [http://www.icivilengineer.com/Transportation\\_Engineering/Intelligent\\_Transportation/](http://www.icivilengineer.com/Transportation_Engineering/Intelligent_Transportation/); Internet; Accessed March 2001.

*Portal designed for civil engineering professionals and students. Lists web sites of some of the major ITS organizations, government and academic programs, journals. Offers limited full text ITS related articles. The home page features a web directory and search engine of more than 3000 annotated web sites and articles by topics.*

**Institute of Electrical and Electronics Engineers. Intelligent Transportation Systems Council.** Available at: <http://www.ewh.ieee.org/tc/its/index.html>; Internet; Accessed March 2001.

*This web site describes the scope and activities of the Council, a professional association focusing on technical issues related to communications and control issues dealing with ITS. Features several links to publications, conferences, and related organizations.*

**ITS Cooperative Deployment Network.** Available at: <http://www.nawgits.com/icdn.html>; Internet; Accessed March 2001.

*The ITS Cooperative Deployment Network (ICDN) web site offers late-breaking news, insight, and resources for transportation professionals and agencies, with focus on the ITS deployment effort in the U.S. Links are provided to full-text documents. Features the monthly ICDN Newsletter, a calendar of events, the Discussion Forums which are on-line bulletin boards, and the ITS Deployment Resources page. Hosted by the National Associations Working Group for ITS (NAWG), a cooperative effort of organizations that is spearheading ITS deployment in the U.S.*

**ITS Decision.** Available at: <http://www.path.berkeley.edu/itsdecision>; Internet. Accessed March 2001.

*Sponsored by the California PATH Program, this web site contains performance and evaluation information on ITS that can be accessed using a search engine. Features links to numerous resources, including academic/research programs, databases/libraries, general resources, regulations/standards, and technical assistance/training. Related links lead to organizations, publications, and events. The site also offers a library of on-line reports organized by topics, and selected articles from major ITS publications.*

**ITSindex.com.** Available at: <http://www.itsindex.com/>; Internet; Accessed March 2001.

*Sponsored by the I-95 Corridor Coalition, provides links to on-line documents, resources, and other web sites. Features a list of over 25 categories, indicating the number of links that cover different aspects related to ITS.*

**ITS Network.** Available at: <http://www.its-network.com>; Internet; Accessed March 2001.

*This web site, with the heading “The Internet Resource on ITS”, has links to articles, events, news, experts, books, organizations, and a link to the “e-zine” ITS Expert which features articles and news on events.*

Japan.Road Bureau.Ministry of Construction. **ITS Handbook 2000-2001: Intelligent Transport Systems.** Available at: <http://www.its.go.jp/ITS/index/indexHBook.html>; Internet; Accessed March 2001.

*Describes the current status of ITS programs in Japan, including deployment programs that are underway and links to ITS-related government agencies.*

**Mitretek Systems.** Available at: <http://www.mitretek.org/its/index.html>; Internet; Accessed March 2001.

*Web site for the ITS component to Mitretek. Features links to current research, deployment, and resources. A link is available to publications, many in full-text, that are categorized by subject.*

**National ITS Architecture.** Available at: <http://www.its.dot.gov/arch/arch.htm>; Internet; Accessed March 2001.

*Home page of the National ITS Architecture from the Joint Program Office of the U.S. DOT. Contains links to downloadable National ITS Architecture documents and related web sites.*

**Oak Ridge National Laboratory ITS Research Program.** Available at: <http://www-cta.ornl.gov/cta/research/its/about.htm>; Internet; Accessed March 2001.

*Web site describing the research program conducted as a technical resource to the FHWA. The publications link lists numerous reports organized by subject.*

**Partners for Advanced Transit and Highways.** Available at: <http://www.path.berkeley.edu/>; Internet; Accessed March 2001.

*Home page for the California PATH Program, one of the first academic research programs focusing on ITS in the U.S. Information regarding the various research programs is available on the web site. The publications link provides access to numerous research reports and working papers, many of which are available in PDF.*

**Turner-Fairbank Highway Research Center.** Available at:  
<http://www.tfhrc.gov/its/its.htm>; Internet; Accessed March 2001.

*Provides information regarding current research in Operations and ITS. Focus is on traffic management and enabling technologies. Links are provided to related publications, articles, and other resource sites.*

**United States. Department of Transportation. Joint Program Office for Intelligent Transportation Systems. Intelligent Transportation Systems (ITS) Home Page.**

Available at: <http://www.its.dot.gov>; Internet; Accessed March 2001.

*Home page for the Intelligent Transportation Systems Joint Program Office (ITS JPO). Provides links to various ITS Program Areas such as architecture, Commercial Vehicle Operations, the Intelligent Vehicle Initiative, Professional Capacity Building, Safety, and Telecommunications. Offers links to the ICDN Newsletter, the Electronic Document Library (EDL), and reports issued by the ITS JPO. Guides the user to information on ITS state status reports, speeches, FAQs, and the National Transportation Library (NTL) DOTBOT web search engine. Under related links (<http://www.its.dot.gov/links.htm>), additional information is available covering areas such as traffic/transit, architecture, rural programs, research centers, and telecommunications.*

**Vehicle, Road and Traffic Intelligence Society (VERTIS).** Available at:  
<http://www.ijnet.or.jp/vertis/>; Internet; Accessed March 2001.

*Describes the goals and mission of VERTIS, launched in 1994 as Japan's response to promoting the development of ITS. Offers information regarding upcoming conferences and seminars, system architecture, and recent publications. Provides links to governmental agencies and major international ITS organizations.*

## **Part Two: Internet Resources – Standards**

**American National Standards Institute. ANSI ONLINE.** Available at:  
[http://www.ansi.org/public/std\\_info.html](http://www.ansi.org/public/std_info.html); Internet; Accessed March 2001.

*ANSI is involved in coordinating, rather than developing standards for the U.S. Its international counterpart is the International Standards Organization (ISO). This web site has numerous links to standards information.*

Institute of Electrical and Electronics Engineers. **Intelligent Transportation Systems Standards.** Available at: <http://standards.ieee.org/catalog.its.html>; Internet; Accessed March 2001.

*Lists the current intelligent transportation standards promulgated by IEEE and the links to each one. The actual text of the standards is available only with a password through subscription from IEEE. Information on the IEEE SCC32 – Standards Coordinating Committee on Intelligent Transportation Systems (ITS) is available at the following web site:*  
<http://grouper.ieee.org/groups/scc32/index.html>

Institute of Transportation Engineers. **ITS Standards.** Available at: <http://www.ite.org/standards/index.html>; Internet; Accessed March 2001.

*Information regarding the status of ITS standards currently under development by ITE can be found through the links given at this web site.*

**International Organization for Standardization (ISO).** Available at: <http://www.iso.ch/welcome.html>; Internet; Accessed March 2001.

*This web site guides the user to international standards that may affect U.S. standards. Specific standards of interest include the ones found at the following web sites:*  
*Standards of TC 22 Road Vehicles:*  
<http://www.iso.ch/liste/TC22.html>  
*Standards of TC 204 Transport Information and Control Systems:* <http://www.iso.ch/liste/TC204.html>

**ITS America. Standards and Protocols Committee.** Available at: <http://www.itsa.org/committee.nsf>; Internet; Accessed March 2001.

*The link at the Technical Committees-Standards and Protocols Committee site guides the user to general information on the committee, standards links, and resource documents.*

**National Transportation Communications for ITS Protocol (NTCIP).** Available at: <http://www.ntcip.org/>; Internet; Accessed March 2001.

*Presents information on the NTCIP, a family of standards providing rules for protocols and objects necessary for electronic traffic control equipment operations. The library link guides the user to a table which lists the NTCIP standard type, title, and approval status. The site provides access to the NTCIP Guide, the NTCIPNews Newsletter, and four discussion forums focusing on outreach, testing, standards, and committees. The NTCIP is a joint product of the National Electrical Manufacturers Association (NEMA), the American Association for State Highway and Transportation Officials (AASHTO), and the Institute of Transportation Engineers (ITE).*

Society of Automotive Engineers. **Intelligent Transportation Systems Standards Division (ITS).** Available at: <http://www.sae.org/technicalcommittees/gits.htm>; Internet; Accessed March 2001.

*Describes SAE's industry consensus standards efforts. Provides links to the several committees designed to address the specific standards needs of ITS and intelligent vehicle technologies.*

United States. Department of Transportation. Federal Highway Administration. **ITS Standards.** Available at: <http://www.its-standards.net>; Internet; Accessed March 2001.

*Describes the U.S. DOT ITS Standards Program. Features links to these sites: 1) About ITS Standards; 2) Resource Documents; 3) ITS Standards Fact Sheets (grouped by the lead standards development organization (SDO); 4) Deployment Status; 5) Testing; 6) ITS Standards Deployment Assistance; and, 7) Training.*

## **STATISTICAL SOURCES**

**ITS in Your State.** Available at: <http://www.its.dot.gov/staterpt/state.htm>; Internet; Accessed March 2001.

*This site provides statistics on funding for ITS programs for individual states. It also discusses state programs and activities.*



Mitretek Systems. **Intelligent Transportation Systems Benefits : 1999 Update.** Washington, D.C.: U.S. Department of Transportation, 1999. 84 p. Also available at: <http://idf.mitretek.org/its.benicost.nsf/frm/Report+Home>; Internet; Accessed March 2001.

*Presents most of the available quantifiable data and benefits of ITS. Groups benefits data into two major components: intelligent infrastructure and intelligent vehicles. These are then categorized into program areas and specific application areas.*

United States. Joint Program Office for Intelligent Transportation Systems. **Department of Transportation's Intelligent Transportation Systems (ITS) Projects Book.**

Washington, D.C. Annual. 1995- . Also available at: <http://www.itsdocs.fhwa.dot.gov>; Internet; Accessed March 2001.

*Describes ITS projects, tests, and studies, initiated through September 30 of each year, that are partially or totally financed from U.S. federal funds. Each entry contains information on the project description, location, partners, contacts, start and end dates, estimated total project cost and ITS Program funds. Beginning in 1998, available on the Internet.*

United States. Joint Program Office for Intelligent Transportation Systems. **ITS Benefits Database and Cost Information.** Available at:

<http://idf.mitretek.org/its/benicost.nsf/frm/home>; Internet; Accessed March 2001.

*This site, maintained by Mitretek Systems, has 3 components. The **ITS Benefits Evaluation Database** contains data on the impact of ITS projects on the operation of the surface transportation network. A **Document** version of the most recent ITS benefits report, is available in electronic format. The **ITS Costs** site contains cost data sources and current unit costs.*

## **DIRECTORIES**

Grant, Sandra Kathryn, ed. **ITS Market Resource Guide : A Reference Guide : Federal, State and Local Contacts in Intelligent Transportation Systems.**

Washington, D.C.: ITS America, 1996. 239 p.

*Serves as a guide to governmental and organizational contacts in ITS. Covers federal and states ITS organizations, local transit agencies, metropolitan planning organizations, counties, and cities.*

**International ITS Index.** New York, NY: Scientific American Newsletters LLC. Annual.

*Considered to be the most extensive directory of the ITS industry, covering North America, Europe, and Asia Pacific.*

**ITS America Directory.** Available at: <http://www.itsa.org/memdir.html>; Internet; Accessed March 2001.

*Provides access to profiles of ITS America's national member organizations. Profiles are constantly updated and provided as an exclusive service to ITS America member organizations. Information is available by name or by location.*

**ITS Canada. Membership Directory.** North York, Ontario: ITS Canada. Annual.

*Presents initiatives of ITS Canada as well as listing corporate members with company description and coordinates.*

**ITS on the Internet.** In ITS World, vol. 3, no. 3, April 1998, pp. 21-26.

*Compiled as a "collection of every noncommercial ITS-related site that we were able to locate in five days of searching and evaluating sites on the Web." Lists over 100 web sites according to the following categories: general, government sites, organizations, ITS America chapters, publications, research institutes/groups, transportation authorities, university ITS programs, federal agencies, and special links pages.*

**ITS World Buyer's Guide.** Des Plaines, IL: Scranton Gillette Communications. Annual. Also available at: <http://www.itsworld.com>; Internet; Accessed March 2001.

*Provides information on over 200 companies, covering more than 125 categories of ITS products, systems, and services.*

**Jane's Road Traffic Management.** Surrey, Great Britain: Jane's Information Group. Annual. 1998/99- .

*Primary objective is to serve as an extensive directory of manufacturers and products, organized by subject categories, focusing on road traffic management. Provides an overview of traffic management technology, market analysis and trends. Also contains a glossary of technical terms, acronyms, and abbreviations common to road traffic management.*

## **PERIODICALS**

### **Part One – Print Sources**

**AASHTO Quarterly.** Washington, D.C.: American Association of State Highway and Transportation Officials. Quarterly. Also available at:  
<http://www.transportation.org/publications/quarterly.nsf>; Internet; Accessed March 2001.

*Frequently contains articles dealing with ITS applications to highway operations.*

**Advanced Transportation Technology News.** Norwalk, CT: Business Communications Company Inc. Monthly.

*Covers industry related topics dealing with advances in transportation technologies. Focuses on information systems, navigation, communications, and automotive electronics.*

**Automotive News.** Detroit, MI: Crain Communications Inc. Weekly. Also available at:  
<http://www.autonews.com>; Internet; Accessed March 2001.

*Leading source of news for the North American automotive industry. Contains articles describing advanced technology concepts for automobiles*

**GPS World.** Duluth, MN: Advanstar Communications Inc. Monthly.

*International journal focusing on GPS and related technologies and their applications to ITS. An article index with access to numerous published articles, is available at:  
<http://www.gpsworld.com/resource.htm>*

**IEEE Transactions on Intelligent Transportation Systems.** Piscataway, NJ: Institute of Electrical and Electronics Engineers, Inc. Intelligent Transportation Systems Council. Quarterly. Also available from: <http://ieeexplore.ieee.org/>; Internet; Accessed March 2001.

*Focuses on the design, analysis, and control of information technology as it is applied to transportation systems.*

**IEEE Transactions on Vehicular Technology.** Piscataway, NJ: Institute of Electrical and Electronics Engineers, Inc. Bimonthly. Also available at: <http://ieeexplore.ieee.org/>; Internet; Accessed March 2001.

*Features articles on vehicle technology, automotive systems, and communications and control technologies.*

**Inside ITS.** New York, NY: Scientific American Newsletters, LLC. Bi-weekly.

*This newsletter chronicles recent activities in ITS in North America. Provides industry news perspectives and current government issues related to ITS. (Continues Inside IVHS). Subscribers to print edition receive full on-line access to newsletter archives. Article summaries, updated twice a month, are available with a free registration at:*  
<http://www.SAnewsletters.com>

**Intelligent Highway.** New York, NY: Scientific American Newsletters, LLC. Bi-weekly.

*This newsletter chronicles recent activities in ITS in Europe. Provides industry news perspectives, and also covers current governmental issues related to ITS. Subscribers to print edition receive full on-line access to newsletter archives. Article summaries, updated twice a month, are available with a free registration at:*  
<http://www.SAnewsletters.com>

**Intellimotion.** Richmond, CA: California PATH Publications. Quarterly. Also available at: <http://www-path.eecs.berkeley.edu/PATH/Intellimotion/>; Internet; Accessed March 2001.

*This newsletter covers research updates in ITS taking place at the California PATH (Partners for Advanced Transit and Highways) Program. Each issue contains articles discussing current areas of research, or may focus on a specific theme. An updated list of recent PATH sponsored research publications is contained in each issue.*

**International Journal of Vehicle Autonomous Systems.** Milton Keynes, Great Britain: Inderscience Enterprises Limited. Quarterly. Also available at: <http://www.inderscience.com/catindex.html>; Internet; Accessed March 2001.

*Focuses on vehicle autonomous systems, covering topics such as driver assistance systems, intelligent vehicle systems, collision avoidance, and active suspension and steering systems*

**International Journal of Vehicle Design.** Milton Keynes, Great Britain: Inderscience Enterprises Limited. Eight issues a year. Also available at: <http://www.inderscience.com/catindex.html>; Internet; Accessed March 2001.

*Focuses on engineering design, research into and development of self-propelled vehicles and their components.*

**International Journal of Vehicle Information and Communication Systems (IJVICS).** Milton Keynes, Great Britain: Inderscience Enterprises Limited. Quarterly. Also available at: <http://www.inderscience.com/catindex.html>; Internet; Accessed March 2001.

*Covers vehicle networking, information and communication systems.*

**ITE Journal.** Washington, D.C.: Institute of Transportation Engineers. Monthly. Also available at: <http://www.ite.org>; Internet; Accessed March 2001.

*Frequently contains articles on applications of ITS technologies to traffic operations.*

**ITS America News.** Washington, D.C.: ITS America. Monthly. Also available at: <http://www.itsa.org/newsletter.nsf>; Internet; Accessed March 2001.

*Newsletter giving a general overview of current activities and concerns. Back issues are also available. Also available in PDF format are the quarterly newsletters: APTS Quarterly, CVO Update, Intermodal News, and Standards Quarterly. These are available at: <http://www.itsa.org/newsletter.nsf/web+pages/quarterly>*

**ITS International.** Kent, Great Britain: Route One Publishing Ltd. Bi-monthly. Limited articles also available at: <http://www.itsinternational.com>; Internet; Accessed March 2001.

*Covers developments and deployments of ITS technologies on an international level. Presents industry profiles, analyses of events, descriptions of activities in specific areas of ITS, and country profiles.*

**ITS Journal.** New York, NY: Gordon & Breach Science Publishers. Quarterly. Also available with password at: <http://www.ingenta.com/journals/browse/gb/209>; Internet; Accessed March 2001.

*Covers research and development, operational testing, and deployment of ITS. Published in cooperation with ITS America. (Continues IVHS Journal).*

**ITS World.** Des Plaines, IL: Scranton Gillette Communications. Bi-monthly.

*Focuses primarily on industry news, with some feature articles. Presents an annual Buyer's Guide covering ITS products, systems, and services. Selected articles, the Buyer's Guide, and a Career Center are also available at: <http://www.itsworld.com>.*

**ITS@ERTICO : Intelligent Transport Services in Europe.** Brussels, Belgium: ERTICO. Monthly. Also available at: <http://www.ertico.com>; Internet; Accessed March 2001.

*Monthly newsletter published by ERTICO, an international public/private partnership for ITS in Europe. Contains news about ERTICO and its partners, ITS programs in Europe, and related references to the European Commission.*

**The Journal of Navigation.** Cambridge, Great Britain: Cambridge University Press. Three times a year. Also available at: <http://www.cup.org>; Internet; Accessed March 2001.

*Contains papers dealing with every aspect of navigation, including historical, descriptive, and technical. Topics cover areas such as control systems, location and navigation systems, mapping, and GPS.*

**Journal of Transportation Engineering.** Reston, VA: American Society of Civil Engineers. Bimonthly. Also available at: <http://www.asce.org>; Internet; Accessed March 2001.

*Frequently contains articles dealing with ITS applications to traffic management technologies.*

**JSAE Review.** New York, NY: Elsevier Science. Quarterly.  
*Official journal of the Society of Automotive Engineers of Japan. Published with support of the Japanese Automobile Manufacturers Association. Contains papers focusing on advanced automotive technologies and the automotive industry in Japan. Table of contents, keyword, and author index available on-line at:*  
<http://www.elsevier.com/locate/jsaerev>.

**Public Roads.** Washington, D.C.: Federal Highway Administration. Bimonthly. Also available at: <http://www.tfhrc.gov/pubrds/pubrds.htm>; Internet; Accessed March 2001.

*Describes advances and innovations in federal highway issues, policies, programs, and research and technology.*

**Telematics Update Magazine.** London, Great Britain: EyeForAuto First Conferences. Monthly. Also available at: <http://www.eyeforauto.com/telematicsupdate/>; Accessed March 2001.

*Offers “wireless intelligence for the auto industry.” Contains interviews with industry executives and provides information on telematics products and services.*

**Tolltrans.** Surrey, Great Britain: UK & International Press. Annual.  
*Presents news, case studies, technology profiles, and location reports dealing with the electronic toll collection industry. Published as a supplement to Traffic Technology International.*

**Traffic Technology International.** Surrey, Great Britain: UK & International Press. Annual.

*Annual publication featuring articles, reviews, technology profiles and news coverage of ITS, with a focus on the technology of advanced traffic control systems. International in scope, it is supplemented by a bi-monthly periodical of the same title.*

**Traffic Technology International.** Surrey, Great Britain: UK & International Press. Bi-monthly.

*Contains feature articles, technology profiles, and current news related to ITS on an international basis.*

**Transportation Human Factors.** Mahwah, NJ: Lawrence Erlbaum Associates, Inc. Quarterly. Also available at: <http://www.erlbaum.com>; Internet; Accessed March 2001.

*Presents articles addressing the practical and theoretical aspects of transportation human factors and the impact ITS may have upon them.*

**Transportation Research. Part C: Emerging Technologies.** New York, NY: Elsevier Science Ltd. Bi-monthly.

*Scholarly journal addressing the implications of emerging technologies on the planning, design, operation, control, management, maintenance, and rehabilitation of transportation systems, services, and components.*

**Vehicle System Dynamics.** Lisse, The Netherlands: Swets & Zeitlinger. Monthly. Also available at: <http://www.swets.nl/sps/journals/jonline.html>; Internet; Accessed March 2001.

*Features articles emphasizing the theoretical background on the research and development of ground based vehicles. Two issues are year are devoted to ITS.*

## Part Two – Electronic Only Sources

**ICDN Newsletter.** Monthly. Available at: <http://www.nawgits.com/icdn/>; Internet; Accessed March 2001.

*Issued by the ITS Cooperative Development Network, this newsletter contains current news related to ITS deployment topics. Features a search engine, which enables users to locate relevant news and articles by subject or date. News regarding activities at public sector sites is also posted. Features highlights from the monthly Advanced Transportation Technology News. The newsletter can also be received through a listserv. A historical component to the ICDN web site is the ITS Online web site, which serves as an archive for pre-1998 articles related to ITS deployment in the U.S. It is available from:*  
<http://www.itsonline.com/>

**IEEE Intelligent Transportation Systems Council Newsletter.** Three issues a year. Available at: <http://www.ewh.ieee.org/tc/its/newsletter.html>.; Internet; Accessed March 2001.

*Contains Council and Non-Council news as it relates to ITS. Feature articles, book reviews, and academic opportunities are also included. Available through an e-mail subscription. Both current and back issues are accessible.*

**ITS Canada Newsletter.** North York, Ontario: ITS Canada. Monthly. Available at: <http://www.itscanada.ca>; Internet; Accessed March 2001.

*Reports general ITS news in Canada.*

**ITS Expert.** Monthly. Available at: <http://epublications.vercomnet.com/ITS>; Internet; Accessed March 2001.

*This “e-zine” features articles, events, news, advertisements, “experts profiles”, and book announcements related to ITS. Also available through an e-mail subscription.*

**Ivsource.net.** Monthly. Available from: <http://www.ivsource.net>; Internet; Accessed March 2001.

*Continues the Intelligent Vehicle Quarterly. Designed as a news service for industry developments. Offers numerous resources, such as a search archive, documents and presentations, a glossary, and a list of industry acronyms. Some of the postings are available without a subscription.*



**Metropolitan Transportation Management & Operations : ITS.** Bimonthly.  
Available at: <http://www.ampo.org>; Accessed March 2001.

*Developed by the Association of Metropolitan Planning Organizations, with funding by the U.S. Department of Transportation. Provides news and practices regarding the implementation of management and operations (M&O) of the metropolitan transportation system, with special emphasis on ITS.*

**Transportation Communications Newsletter.** Daily. Available at:  
<http://www.egroups.com/group/transport-communications>; Internet; Accessed March 2001.

*This newsletter is a daily e-mail publication offering news and information dealing with various aspects of communications in the transportation industry. Typically covers topics such as ITS, public relations and outreach, traveler information, and traffic management.*

## **CONFERENCE PROCEEDINGS**

(Note: This section primarily includes conference proceedings for ongoing major domestic and international conferences. It also includes conferences of historical significance to the domestic ITS program.)

American Control Conference. **Proceedings.** Annual. 1980- .  
*Location varies. Sponsored by the American Automatic Control Council, these annual proceedings contain numerous papers dealing with advanced vehicle control systems, traffic control, sensors, and automated highways.*

IEEE Intelligent Transportation Systems Conference. **Proceedings.** Piscataway, NJ: Institute of Electrical and Electronics Engineers. Irregular. 1997- .  
*Title varies. First held in 1997 under title IEEE Conference on Intelligent Transportation Systems. Followed by a second conference in 1999. Absorbs the previous VNIS (Vehicle Navigation and Information Systems) Conferences. Sponsored by the IEEE Intelligent Transportation Systems Council, with additional sponsors. Held annually since 1999, with conference sites varying each year. Focus of the conference is on “cutting-edge electronics technologies and their applications for ITS.”*

IEEE International Vehicle Electronics Conference. **Proceedings.** Piscataway, NJ: Institute of Electrical and Electronics Engineers. Irregular. 1999- .

*First held in 1999 as IVEC '99, this conference addressed numerous topics related to ITS, including: vehicle electronics, navigation, vehicle spacing, traffic control, sensors, steering control, image processing, vehicle guidance, and communication.*

IEE Seminar on ITS System Architecture. **Proceedings.** London, Great Britain: Institution of Electrical Engineers. 2000. 54 p.

*The IEE, which is the British counterpart to the IEEE, periodically holds colloquia/seminars on topics dealing with ITS. The proceedings are published as a Digest series. This seminar focuses on ITS system architecture.*

**Intelligent Vehicle Highway Systems : 2-4 November 1994, Boston, Massachusetts.** Bellingham, Washington: SPIE – The International Society for Optical Engineering, 1995, 192p.

*Contains papers dealing with the application of photonics to ITS. Topics cover areas such as traffic management, sensor technologies, traffic surveillance, and control systems.*

Intelligent Vehicles Symposium. **Proceedings.** Piscataway, NJ: Institute of Electrical and Electronics Engineers. Annual. 1989- .

*Title varies. Originated in 1989 as a “closed” symposium, followed by an “open” symposium in 1990. Held annually since 1991 with varying sites. From 1989 to 1996, the symposium was sponsored by the IEEE Industrial Electronics Society. No symposium appears to have been held in 1997. From 1998 to present, the symposium has been sponsored by the IEEE Intelligent Transportation Systems Council.*

International Conference on Road Vehicle Automation. **Road Vehicle Automation : Proceedings of the 1<sup>st</sup> International Conference on Road Vehicle Automation.** London, Great Britain: Pentech Press, 1993. 309 p.

*Contains technical papers concerned with various basic research, system developments, applications, case studies and theoretical work on road vehicle automation.*

International Conference on Road Vehicle Automation. **Road Vehicle Automation II : Towards Systems Integration : Proceedings of the 2<sup>nd</sup> International Conference on Road Vehicle Automation.** Chichester, Great Britain: John Wiley & Sons, 1997. 611 p.

*Contains technical papers discussing research results, systems implementation, application and development in vehicle systems automation.*

International Federation of Automatic Control. **Proceedings of the IFAC Symposium on Transportation Systems.** Irregular. 1970- .

*Title varies, and additional sponsors may be added. Majority of the papers deal with road traffic, with emphasis on automated systems. Subject categories from most recent symposium included automated highway systems, incident detection and management, vehicle control, dynamic route guidance, fuzzy logic applications, video image processing, vehicle automation, and sensors.*

International Symposium on Advanced Vehicle Control. **Proceedings.** Tokyo, Japan: Society of Automotive Engineers. Biannual. 1992- .

*Location varies. Focuses on advanced control of vehicles, covering topics such as: advanced steering and suspension systems, intelligent vehicles, driver assistance systems, human factors, sensors, and vehicle dynamics.*

International Symposium on Automotive Technology & Automation. **Proceedings.** Croyden, England: Automotive Automation Ltd. Irregular. 1972- .

*Title varies. The ISATA inaugural symposium was held in 1972. Each year, a specific focus is adopted for the symposium. Advances in automotive technologies led to a change in the format of the symposium such that by 1991, five simultaneous dedicated conferences were held, with a specific one dedicated to "Road Transport Informatics." The 2001 Conference reflects a name change to the "Automotive and Transportation Technology, Congress & Exhibition."*

ITS America. Meeting. **Conference Proceedings.** Washington, D.C.: Intelligent Transportation Society of America. Annual. 1991- .

*Considered to be the foremost gathering of academia, government, and industry in the U.S. as it relates to Intelligent Transportation Systems. Recent proceedings available on CD ROM, with papers accessible by title, session, author, or full text.*

**ITS in Europe '99 Congress and Exhibition : Proceedings, Amsterdam, The Netherlands, June 14-17, 1999.** Brussels, Belgium: ITS Congress Association, 1999. 1 computer laser optical disc.

*Contains presentations discussing applications of ITS in cities, airports, regions, ports, and travel and tourism.*

**National Workshop on IVHS: Proceedings of a National Workshop on IVHS, Dallas, Texas.** College Station, TX: Texas Transportation Institute, 1990, v.p.

*These are the proceedings from the landmark Mobility 2000 National Workshop in which a vision and major program features were set forth for an Intelligent Vehicle Highway Systems program in the U.S.*

**San Francisco Workshop, June 6-7, 1988: Regional Consortium (i.e. Consortium) for R,D,&D on Advanced Technology for the Highway.** Sacramento, CA: California Department of Transportation, 1988. v.p.

*Contains the conference notes from the Western States Conference on Advanced Transportation Technology, one of the first efforts to promote R&D programs, influence legislation and funding for advanced transportation technologies. Also contains the conference notes from the Berkeley Workshop Multi State/Private Sector Consortium for R,&D on Advanced Technology for the Highway, March 24-25, 1988.*

**Technology Options for Highway Transportation Operations: October 28-31, 1986, Sacramento, California.** Berkeley, CA: Institute of Transportation Studies, University of California, Berkeley, 1987. 192 p.

*This conference is recognized as one of the first steps toward forging a national interest and support for ITS. Drew more than 100 representatives from federal, state, and international transportation agencies, research organizations, and the private sector. Contains presentations on historical, current, and future applications.*

Transportation Research Board. **Annual Meeting.** Washington, D.C.: National Academy Press. Annual. 1921- .

*Annual conference converging engineers, scientists, and researchers, supported by state transportation departments and federal agencies. The papers are categorized by subject and published in the Transportation Research Record series (also known as the Journal of the Transportation Research Board since 1999). The published papers have also been issued on CD-ROM since 1998. Each individual paper is indexed and may be accessed through the TRB Publications Index web site.*

**Transportation Sensors and Controls: Collision Avoidance, Traffic Management, and ITS. : 18-20 November 1996, Boston, Massachusetts.** Bellingham, WA: Society of Photo-Optical Instrumentation Engineers, 1997. 308 p.

*A SPIE-sponsored conference covering a variety of topics related to vehicle sensors, lateral control, and collision avoidance.*

Workshop on Intelligent Vehicles/Highway Systems. **Proceedings of a Workshop on Intelligent Vehicle/Highway Systems.** College Station, TX: Texas Transportation Institute, 1989. 68 p.

*Contains the proceedings of the 1<sup>st</sup> Mobility 2000 National Workshop held on Intelligent Vehicle Highway Systems, the first major national event bringing together key decision makers and planners for an IVHS program.*

**World Congress on Intelligent Transport Systems.** Annual. 1994- .

*Title varies. Sponsored by the three premiere ITS organizations in the world: ITS America, VERTIS, and ERTICO. Site of the congress varies each year. Recent proceedings available on CD-ROM, with papers accessible by author, subject, session, paper number, and paper type.*

## **INDEXING/ABSTRACTING SERVICES AND DATABASES**

**INSPEC.** London, England: Institution of Electrical Engineers.

*Bibliographic database containing citations covering international journals and publications in the subject areas of physics, electronics, computers and control, and information technology. Excellent coverage of Japanese literature on ITS. Information regarding how to access the database can be found at:*

<http://www.iee.org.uk/publish/inspec/>

**Intelligent Transportation Systems Electronic Document Library.** Available at: <http://www.its.dot.gov/itsweb/welcome.htm>; Internet; Accessed March 2001.

*The ITS EDL is an electronic repository of documents on ITS topics published by the U.S. Department of Transportation. Features include: a browse catalog (alphabetical title), profile search (search by author or title), full text search, topic search, and search by a particular state. Documents added to the EDL during the prior week, as well as their archives, are also accessible.*

**National Transportation Library.** Available at: <http://ntl.bts.gov/>; Internet; Accessed March 2001.

*Administered by the Bureau of Transportation Statistics, the NTL web site is a repository of full-text documents from public and private organizations in the U.S. Access to the collection is through search or browse features.*

**NTIS (National Technical Information Service) Electronic Catalog.** Springfield, Virginia: U.S. Department of Commerce, National Technical Information Service. Available at: <http://www.ntis.gov>; Internet; Accessed March 2001.

*Database containing 450,000 titles for U.S. government publications issued since 1990. Searching capabilities are limited to titles and topics. Most records do not contain abstracts.*

**PATH (Partners for Advanced Transit and Highways) Database.** Berkeley, California: University of California, Institute of Transportation Studies, Harmer E. Davis Transportation Library. Available at: <http://www4.nationalacademies.org/trb/tris.nsf/web/path>; Internet; Accessed March 2001.

*Bibliographic database providing access to the largest and most comprehensive collection of information on ITS. Contains references to historical materials and current research and applications. Coverage includes monographs, journal articles, conference paper, technical reports, theses, web sites, and selected media. Contains over 22,000 records (as of March 2001) with abstracts. Provides full bibliographic information and includes URLs for documents available on-line. A separate web site, titled "This Month in the PATH Database", contains a list of recent additions to the Database during the previous month. It is available at: <http://lib.berkeley.edu/ITSL/newbooks.html>*

**SAE International Electronic Information Solutions.** Available at: <http://www.elecpubs.sae.org/>; Internet; Accessed March 2001.

*This web site provides access to eight individual databases and indexes that are available only by subscription. These include: 1) Global Mobility Database, 2) Publications and Standards, 3) Highway Vehicles Safety, 4) WebDex, 5) Automotive Materials, 6) Automotive Engines, 7) Automotive Fuels & Lubricants, and 8) Automotive Electronics. The Publications and Standards Database in particular, provides coverage of all SAE technical publications since 1906, including proceedings, journal articles, books, standards, and research reports. The Database also provides abstracts for all papers published after 1967. A limited number of recent SAE publications specific to ITS may be found at the SAE Bookstore web site which can be accessed via the link available: <http://www.sae.org/about/index.htm>*

**Transport CD-ROM.** Boston, Massachusetts: SilverPlatter.

*Includes records from the Transportation Research Information Services (TRIS) Database produced by the Transportation Research Board (TRB) and the International Transport Research Documentation (ITRD) produced by the Organization for Economic Cooperation and Development (OECD). Coverage is from 1968 to present, with quarterly updates.*

**TRANweb.** Evanston, Illinois: Northwestern University Transportation Library. Available at: <http://tran.library.northwestern.edu>; Internet; Accessed March 2001.

*Electronic database of magazine articles and conference paper citations. Catalog is searchable by author, title, or subject. Abstracts are available.*

**TRB Publications Index.** Washington, D.C.: Transportation Research Board. Available at: <http://www.nationalacademies.org/trb/onlinepubs.nsf/web/index>; Internet; Accessed March 2001.

*Searchable index of all TRB publications, providing annotated citations and links to full text electronic documents when available. The database can be searched by keyword, author, title, series, and date.*

**TRIS Online.** Washington, D.C.: Transportation Research Board. Available at: <http://199.79.179.82/sundev/search.cfm>; Internet; Accessed March 2001.

*TRIS (Transportation Research Information Services) Online is a collaborative effort between the Transportation Research Board (TRB) and the Bureau of Transportation Statistics National Transportation Library. This is the web-based version of the TRIS database which is the world's largest bibliographic resource on transportation information. TRIS is also available from 2 fee-based services: SilverPlatter TRANSPORT and Dialog (File 63). TRIS Online contains over 420,000 bibliographic records, with abstracts and selected full-text links when available. Documents may be searched by author, title, subject, corporate author/publisher, journal/conference title, or abstract.*

**UMTRI Current Acquisitions – A Selected List.** Ann Arbor, Michigan: University of Michigan Transportation Research Institute Library. Available at:

<http://www.umtri.umich.edu/library/acq/acqclist.html>; Internet; Accessed March 2001.

*Monthly resource, organized by subject, listing recent acquisitions. Links are provided to full-text documents when available.*

**University of Michigan Transportation Research Institute (UMTRI).** Available at: <http://www.umich.edu/umtri/products/html>; Internet; Accessed March 2001.

*Provides access to two searchable databases: UMTRI Bibliography Catalog and the UMTRI Library Catalog.*

**U.S. Department of Transportation. DOT Library.** Available at: <http://isweb.tasc.dot.gov/library/ncatalog.htm>; Internet; Accessed March 2001.

*Online catalog containing bibliographic records for materials held by five libraries. Catalog may be searched by title, author, subject, and other access points.*

## **DICTIONARIES AND GLOSSARIES**

**“Appendix B: Glossary and Appendix C: Acronyms,”** in Intelligent Transportation Primer. Washington, D.C.: Institute of Transportation Engineers, 2000. B-1-B-10, C-1-C-6.

*Provides definitions of ITS terminology and acronyms.*



**Intelligent Transportation Systems Glossary.** Available at:  
<http://sanewsletters.com/its/glossary1.html>; Internet; Accessed March 2001.

*Offers a detailed glossary of ITS terms compiled by the publishers of Inside ITS and The Intelligent Highway.*

**ITS World Glossary.** Available at: <http://pluto.ttem.fcu.edu.tw:8000/~cwchen/its1.html>;  
Internet; Accessed March 2001.

*Organized by the staff of ITS World, this is a detailed glossary of ITS terms. Last updated in February 1998.*

**ITS/CVO CVISN Glossary.** Available at:  
<http://www.jhuapl.edu/cvisn/introcvisn/glossv20.shtml>; Internet; Accessed March 2001.

*Defines terms and acronyms used in current Commercial Vehicle Information Systems and Networks (CVISN) documents and used in activities relevant to development of a national ITS system architecture for commercial vehicle operations (CVO).*

Petrites, Seyem D. and Michael C. Kleiber. **ITS Thesaurus : A Controlled, Hierarchical Vocabulary For Indexing Materials Relating to Intelligent Transportation Systems.** Berkeley, CA: Institute of Transportation Studies. University of California, Berkeley, 1997. 36 p. Revised February 20, 2000 version available at:  
[http://www4.nas.edu/trb/tris.nsf/web/its\\_thesaurus?OpenDocument#top](http://www4.nas.edu/trb/tris.nsf/web/its_thesaurus?OpenDocument#top); Internet; Accessed March 2001.

*Developed as a tool for indexing the references in the California PATH Database, covering all components of Intelligent Transportation Systems as well as supporting technologies.*

Society of Automotive Engineers. **ITS Terms and Definitions Information Report.** Warrendale, PA: Society of Automotive Engineers, 1995. v.p.

*Explains the terms and acronyms used in ITS, with focus on those terms related to automotive applications and the interfaces to and from vehicles. Includes related technologies, standards, and organizations.*

## **BIBLIOGRAPHIES**

Buydos, John F. **Intelligent Transportation Systems.** Washington, D.C.: Library of Congress, 1995. 9 p.

*Part of the Library of Congress LC Science Tracer Bulletin series. Contains references to basic texts, government publications, conference proceedings, indexing and abstracting services, journals and journal articles, and technical reports on ITS. Based on the holdings of the Library of Congress and not intended as a comprehensive bibliography.*

**Current Topics in Transport.** Berkshire, Great Britain: Transport Research Laboratory, Library Services, 1990-1994.

*Part of a series, with each issue containing a selection of abstracts added to the Transport Research Laboratory Library Database during a select period. Each issue focuses on a particular topic related to ITS.*

Dranscak, Marina and Jerome T. Maddock. **Advanced Public Transportation Systems: A Bibliography With Abstracts, 1985-1991.** Washington, D.C.: U.S. Federal Transit Administration, 1992. v.p. Also available at:

<http://www.fta.dot.gov/library/technology/APTS/333APT/333APT.HTM>; Internet; Accessed March 2001.

*Based on a search from the UMTRIS sub-file of the TRIS Database, this annotated bibliography focuses on historical Advanced Public Transportation Systems (APTS) research projects from 1985-1991.*

Grimm, Ann C. **Intelligent Vehicle/Highway Systems: A Classified Bibliography of the Literature Contained in the UMTRI Research Information & Publications Center.** Ann Arbor, MI: University of Michigan. Transportation Research Institute. Research Information & Publications Center, 1991. 56 p.

*Contains more than 350 references on historical IVHS programs, technology, and applications. All materials are contained in the University of Michigan Transportation Research Institute Library.*

Grimm, Ann C. **Intelligent Vehicle/Highway systems: A Classified Bibliography of the Literature Contained in the UMTRI Research Information & Publications Center. Volume 2.** Ann Arbor, MI: University of Michigan. Transportation Research Institute. Research Information & Publications Center, 1992. 46 p.

*Contains more than 370 references on historical IVHS programs, technology, and applications. All materials are contained in the University of Michigan Transportation Research Institute Library. Supplements the earlier volume of this bibliography which was published in 1991.*

Stein, Anthony C. **An Annotated Bibliography of Human Factors Literature in Intelligent Transportation Systems.** La Canada, CA: Safety Research Associates, Inc., 1995. v.p.

*Annotated bibliography of the human factors literature dealing with ITS. Contains over 500 references and includes a keyword index.*

Syverud, Kent D. **A Bibliography of Legal Constraints to the Research, Development, and Deployment of IVHS in the United States.** Ann Arbor, MI: University of Michigan. Transportation Research Institute, 1992. 7 p.

*Contains historical references on the legal constraints to the research, development, and deployment of IVHS in the U.S. Covers IVHS technology and programs. Focuses on legal barriers and issues relating to liability, privacy, procurement, and ownership.*

TRW Systems Group. Electronic Systems Laboratory. **Annotated Bibliography of Available Literature on the Control of Transportation Systems Using Deterministic Traffic Management Principles.** McLean, VA: TRW, 1972. 9 p.

*Contains abstracts of historical (1968-1972) literature on automated highway and dual mode systems. References are arranged under the following subjects: 1) Network control and traffic management, 2) Longitudinal control system design, 3) Merging systems and, 4) Applications of deterministic systems.*

United States. Joint Program Office for Intelligent Transportation Systems. **Intelligent Transportation Systems Publications Catalog.** Washington, D.C.: U.S. Joint Program Office for Intelligent Transportation Systems, 1997. 8 p.

*Annotated catalog listing documents on ITS issued by the Federal Transit Administration, Federal Highway Administration, Federal Railroad Administration, and the National Highway Traffic Safety Administration.*

United States. National Highway Traffic Safety Administration. Office of Crash Avoidance Research. **Bibliography of Recent ITS Reports and Papers.** Washington, D.C.: U.S. National Highway Safety Traffic Safety Administration, 1998. 11 p.

*Contains references to recent reports and papers on ITS.*

*Areas of coverage include: vehicle dynamics, vehicle follower control, and systems dealing with collision warning, adaptive cruise control, computer vision, advanced vehicle control, speed control, and driver monitoring.*