Recent Projects

- Development of a Web-Based Reporting System to Use Transit ITS Data to Help Improve Services for Special Populations
- Hurricane Evacuation Planning for Disadvantaged Populations
- Attracting Elderly Drivers to Public Transportation: Issues and Concerns
- Feasibility Study on the Use of Personal GPS Devices in Paratransit
- Development of a Florida Modeling Portal
- Development of Web-based Florida Transit Information System (FTIS)
- A GIS-Based Decision System for Intermodal Security and Safety
- Integrating Data and Models for Analysis of Freight Movements on Multimodal Transportation Systems for Florida
- Use of Satellite Imagery for Post-Hurricane Traffic Condition Assessment
- Improvement of Seasonal Factor Estimation in the State of Florida
- Technical Support Services for Transit Agencies

Researchers

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Research Faculty

Fabian Cevallos, Ph.D. (Florida International University), Transit Program Director - Advanced Public Transportation Systems, transit planning and operations, Business Intelligence, information technology.
Albert Gan, Ph.D. (University of Florida), Associate Professor - Public transit, traffic simulation and control, ITS, highway safety, access management, information technology.
Mohammed Hadi, Ph.D. (University of Florida), P.E., Assistant Professor - ITS hardware and software, vehicle-infrastructure integration (VII), traffic control systems, freeway operations, simulation/dynamic traffic assignment, traffic safety.
Sylvan C. Jolibois, Ph.D. (University of California at Berkeley), Associate Professor - Transit maintenance, land use planning, highway design, land development, highway safety, ITS.

L. David Shen, Ph.D. (Clemson University), P.E., T.E., Professor - Airport design and planning, public transportation, intermodal facilities. LCTR Director
Fang Zhao, Ph.D. (Carnegie Mellon University), P.E., Professor - GIS, demand modeling, land use and transportation interactions, public transportation, transportation data analysis.

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The Lehman Center for Transportation Research (LCTR) at Florida International University (FIU) was established in 1993 in honor of Congressman Bill Lehman and his tireless efforts to make South Florida a better place.

Located in the Department of Civil and Environmental Engineering, LCTR is committed to conducting research and training to improve transportation mobility and safety, and educating a multidisciplinary workforce to plan, manage, and implement transportation systems. LCTR is the only transportation center of its kind in South Florida – home to more than a third of Florida’s 17 million population.

Since its inception, LCTR has conducted numerous research projects in the areas of:
- Public Transportation,
- GIS,
- Transportation Demand Modeling,
- Land Use Planning,
- Intelligent Transportation Systems,
- Transportation Safety,
- Traffic Simulation, and
- Transportation Databases.

The Center currently has an active staff of about 20 full-time researchers. With over 50 graduate students, the educational program is currently the largest in the State of Florida and one of the largest in the nation.

**Who We Are**

**Products**

- **Florida Transit Information System (FTIS)**, a multi-component project designed specifically to assist transit agencies with planning.
- **Integrated National Transit Database Analysis System (INTDAS)** – a web database system designed for the retrieval and analysis of the 1984-2006 National Transit Database (NTD).
- **Florida Transit Geographic Information System (FTGIS)** – a GIS web system customized for transit planning for Florida’s transit systems.
- **Automated Transit Stop Inventory Model (ATSIM)** – a hybrid mobile-desktop system for the collection, analysis, and maintenance of transit stop inventories.
- **FSUTMS Online** – an online transportation modeling web portal which serves as a central location for exchanging and sharing information, data, and ideas among the transportation modelers in Florida.
- **Road Ranger Inspection Program (RRIP)** – a mobile Tablet PC application designed to record and query data from field inspections of Road Ranger service patrol vehicles.
- **APTS Data Mining and Archiving System (ADAMS)** – a project focusing on familiarizing transit agencies with advanced public transportation systems, data mining, and analysis.
- **Crash Reduction Analysis System Hub (CRASH)** – a web-based application used to update and apply crash reduction factors for Florida.
- **Dynamic Segmentation (DySeg) Tool** – a desktop database program capable of merging crash records with geometric data from Florida’s roadway characteristic inventory.
- **Visualization of Land Use and Transportation Interactions (VOLUTI)** - a GIS tool which facilitates finding the relevant data needed for land use and transportation planning.
- **Florida Accident Vehicle Occupancy Rate**
- **Benefit-Cost Analysis of FDOT District 4 Fort Lauderdale SMART SunGuide ITS Operations**
- **Florida Turnpike Smart Highways Phase 2 (FutureSHOC)**
- **South Dade Busway Feeder Study**
- **Advanced Public Transportation Systems Technical Assistance for Miami-Dade Transit Service Planning Section**
- **Development of APTS Data Archiving and Mining System (ADAMS)**
- **Using Data from an Electronic Fare Collection System to Identify the Travel Behavior of Seniors and the Disabled Community**
- **Development of a Web-Based GIS for Visualization, Retrieval, and Analysis of Special Population Data**

**Recent Projects**

- Lane Marking/Striping to Improve Image Processing
- Road Departure Warning Systems
- Benefit-Cost Analysis of FDOT District 4 Fort Lauderdale SMART SunGuide ITS Operations
- Florida Turnpike Smart Highways Phase 2 (FutureSHOC)
- South Dade Busway Feeder Study
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For more information visit us on the web at [http://lctr.eng.fiu.edu](http://lctr.eng.fiu.edu)