

PANOS D. PREVEDOUROS, PhD

Professor of Traffic and Transportation Engineering
CEE Department Chairman, 2015-2020
Coordinator, UH-Manoa Chairs and Directors Council, 2018-2020
Graduate Program Chairman, 1998-2003
Chair of TRB Freeway and CAV Simulation Subcommittee, 2005-2020
Mayor Candidate, City and County of Honolulu, 2008 and 2010
Past President, Hawaii Highway Users Alliance (HHUA)
orcid.org/0000-0001-6983-2321

EDUCATION

DEPARTMENT OF CIVIL ENGINEERING, NORTHWESTERN UNIVERSITY, EVANSTON, IL

Doctorate in Civil Engineering, 1990. Focus on public policy, demand management, human behavior (in the urban transportation system context), transportation planning and modeling. DISSERTATION: Demographic, Social, Economic and Personality Factors Affecting Suburban Transport Behavior.

Master's of Science in Civil Engineering, 1987. Emphasis on travel demand forecasting, traffic operations, and systems analysis. THESIS: Effects of the Analysis Interval on Delay Estimation for Signalized Intersections.

THE POLYTECHNIC SCHOOL, ARISTOTLE UNIVERSITY, THESSALONICA, GREECE

Diploma (5-year degree) in Land Surveying Engineering, 1984. Focus on roadway design and construction, traffic analyses, and transportation systems. DIPLOMA STUDY: The Humanistic Aspects of Traffic Accidents.

HONORS

1980-1981 Fellow of the National Fellowship Foundation, Athens, Greece.
1985-1986 Research Scholarship, UMTA; and, General Motors Corporation, Evanston, IL.
1986-1987 Research Scholarship, Illinois Department of Transportation, Evanston, IL.
1988-1989 Fellowship, United Parcel Service Foundation, Evanston, IL
1989-1990 Fellowship, The Transportation Center, Northwestern University, Evanston, IL.
1994 Listed in American Men and Women of Science.
1995 Best Paper Award on Transportation Noise, TRB, National Research Council.
1996 Outstanding Civil Engineering Faculty Award, ASCE-Hawaii.
1996 Listed in Who's Who Among America's Teachers.
2003 One of *Hawaii Reporter's* "50 people who Rocked Hawaii in 2003."
2005 Van Wagoner Award for *ITE Journal* Paper on Urban Underpasses.
2008 State of Hawaii House of Representatives, Certificate of Honor for Congestion Study for Oahu by UH Traffic and Transportation Laboratory.
2009 One of *Hawaii Reporter's* "Hawaii's Seven Superheroes."
2009 One of *Star Bulletin's* "Ten People Who Made a Difference in Hawaii in 2008."
2009 Service Award, Freeway Operations, TRB, National Research Council.
2010 Certificate of Service – 20 Years, University of Hawaii.
2010 Certificates of Appreciation: Air Cargo Association of Hawaii, Manoa Waioli Lions Club, Engineers and Architects of Hawaii.
2011 Sustainability Paper Award, World Road Association, PIARC 2011 Conference, Mexico City.
2012 Letter of Appreciation, Advanced Research and Training Institute, Kathmandu, Nepal.
2012 Council of the City and County of Honolulu, Honor Certificate for Public Service.

PROFESSIONAL MEMBERSHIPS AND OTHER QUALIFICATIONS

- Chamber of Professional Engineers – Greece; P.E. License No. 45.151
- Transport Experts Society (SES) – Greece
- Transportation Research Board (TRB), 1986–
- Institute of Transportation Engineers (ITE), 1988-2008; founding member of Hawaii section
- American Society of Civil Engineers (ASCE), 1990–
- Charter Member, Transportation and Development Institute (ASCE), 2000–
- Board of Scholars, Grassroot Institute of Hawaii, 2002-2012
- Hawaii Highway Users Alliance, Founding Member, President 2012–2016
- Court-qualified Traffic and Transportation Engineering expert, State of Hawaii
- Non-partisan Candidate for Mayor of Honolulu in 2008 (came third garnering ~17% of the vote) and in the 2010 special election (came third with ~19% of the vote).
- Member, Board of Directors, Smart Business Hawaii, 2010-2014
- Member, Scholars Strategy Network, 2018–
- ENVISION Sustainability Professional ENV SP, 2017.

ACADEMIC INSTRUCTION AND ADVISING

DEPARTMENT OF CIVIL ENGINEERING, NORTHWESTERN UNIVERSITY

Instructor of CE-C76: Transportation Systems Operations, Fall 1989.

DEPARTMENT OF CIVIL ENGINEERING, UNIVERSITY OF HAWAII AT MANOA

Assistant professor (8/90-6/94), associate professor (7/94-6/05), professor (7/05-present), graduate program chairman (8/98-6/03), department chairman (1/15-present).

Instructor of Undergraduate and Graduate Courses

- CEE 270: Applied Mechanics I
- CEE 361: Fundamentals of Transportation Engineering
- CEE 462: Traffic Engineering
- CEE 444: Infrastructure – Impacts, Policies and Sustainability
- CEE 499: Special Problems
- HONORS 491: The Automobile – A Multidisciplinary Analysis
- CEE 660: Transportation Evaluation and Logistics (graduate)
- CEE 661: Intelligent Transportation Systems (graduate)
- CEE 664: Advanced Transportation Modeling (graduate)
- CEE 691: Seminar in Civil Engineering (graduate)
- CEE 696: Systems Analysis for Engineers (graduate) – with A.R. Archilla
- CEE 699: Directed Research (graduate)
- CEE 700: Thesis Research (graduate)
- CEE 800: Dissertation Research (graduate)

Adviser for Ph.D. Degree or Ph.D. Committee Member, if so Indicated
(Stated employment status is immediately upon graduation)

1. **Honglong Li**, PhD dissertation: *Traffic Adaptive Control for Isolated Intersections in Oversaturated Conditions*. **PhD 12/2001**. Project engineer at Lyon Associates, Honolulu, HI.
2. **Lin Zhang**^{1,2}, PhD dissertation: *Signalized Intersection Level-of-Service that Accounts for User Perceptions*. **PhD 12/2004**. Project engineer at Cambridge Systematics, Inc.
3. **Xiaojin (Jerry) Ji**, PhD dissertation: *Probabilistic Analysis of Signalized Intersection Delay and LOS*. **PhD 2/2006**. Transportation Engineer, Wilbur Smith Associates, Inc., Dallas, TX.
4. **Ashwin Sabapathy**, *Globalization and Urban Environmental Equity in Developing Countries*. Department of Urban and Regional Planning. **PhD 12/2008**. (PhD committee member.)
5. **Lambros Mitropoulos**, PhD dissertation: *Sustainability Framework for Urban Transportation Modes and Exploratory Applications*. **PhD 12/2011**. Research associate in Hellenic Institute of Transport (<http://www.imet.gr>), Greece.
6. **Charalambos Petamidis**, PhD dissertation: *Use of Driver and Flow Simulation in the Evaluation of ITS for Traffic Optimization*. The Polytechnic School, University of Thessaly, Larissa, Greece. **PhD 12/2011**. (PhD committee member.)
7. **Panagiotis Kottas**, PhD dissertation: *Driver Drowsiness Detection System with Eye Image Processing*. The Polytechnic School, University of Thessaly, Greece. **PhD 6/2012**. (PhD committee member.)
8. **Xin (Alyx) Yu**.³ PhD dissertation: *Method for Assessing Improvements for Complex, Congested Signalized Intersections: Left-turn Prohibitions and Partial Grade Separations within Existing Right of Way*. **PhD 5/2013**. Transportation Engineer, Stantec, Philadelphia, PA, USA.
9. **Yangling Li**, PhD dissertation: *Green Roof Hydrologic Performance and Modeling*, UHM-CEE, **PhD 5/2014**. (PhD committee member.)
10. **Michael Feo**, Doctoral dissertation: *The Future of Aloha Stadium: 21st Century Stadium Design Parameters*. UHM, **Doctorate in Architecture, 5/2015**. (Doctoral committee member.)
11. **Liang Shi**, PhD dissertation: *HCM Analysis of Driverless Vehicle Potential Impacts on the Quality of Flow of Freeways and Intersections*. UHM-CEE, **PhD 5/2016**.
12. **Qiong (Linda) Wu**, PhD dissertation: *Traffic Control Strategy Formulation and Optimization Enabled by Homogenous Connected and Autonomous Vehicle Systems*. UHM-CEE, **PhD 12/2017**. (PhD committee member.)
13. **M. (Pasha) Hashemi**, PhD dissertation: *Influence of Roadway Characteristics in the Modeling of the Frequency of Roadway Departure Crashes on 2-Lane 2-Way Roads*. UHM-CEE, **PhD 5/2019**. (PhD committee member.)
14. **Konstandinos Papoutsis**, PhD dissertation: *Retail Logistics Costs and Policy Impact: What Is the Total Cost to Secure Innovation for a Greener Retail Supply Chain?* The Polytechnic School, University of Thessaly, Greece, **PhD 7/2019**. (PhD committee member.)
15. **Zhenning Li**, PhD dissertation: *A Machine Learning Based Traffic Signal Optimization Study in a Partially Connected and Automated Vehicle Environment*. **PhD 12/2019**. (PhD committee member.)

¹ Lin Zhang participated in the annual student paper contest of the Institute of Transportation Engineers and won District 6 which includes 13 western states. He was awarded \$500 and an all-expenses-paid trip to present his paper "Freeway Travel Time Estimation: Case Study in Honolulu" at the 73rd Annual Meeting of the ITE (Seattle, August 2003.)

² Lin Zhang was one of the four out of 121 qualified applicants to receive UH Graduate Division's 2004 Dai Ho Chun Dissertation Completion Fellowship (\$3,000).

³ Alyx Yu received UH Graduate Division's 2011 Dissertation Completion Award (\$10,000) and the Dai Ho Chun Graduate Fellowship.

Adviser for Masters Degree

(Stated employment status is immediately upon graduation)

1. Sanjay Kawad, *Aviation Forecasting at the Local Level: Theoretical Development and Application at the Honolulu Int'l Airport*. **M.S. 3/94**. Employed by Microsoft Corp.
2. Bhamidipati Prasad, *Noise Annoyance from Infrequent Helicopter Overflights: Analysis of Relations between Residents' Perceptions and Field Measurements*. **M.S. 11/95**. Employed by U.S. Contractor.
3. Ping An, *Automobile Ownership in Developed and Developing Asian Countries: What Does the Future Hold?* **M.S. 12/95**. Employed by AMD Corp.
4. Yuhao Wang, *Comparison of Freeway Simulation Models: INTEGRATION, CORSIM and WATSim*. **M.S. 12/97**. Employed by provincial government in China.
5. Kevin Kasamoto, *Assessment of the Need for Freeway Incident Management on Oahu's Freeways*. **M.S. 6/98**. Employed by Hawaii DOT.
6. Luanne Aburamen, *Development of Methodology for Assessing Pedestrian LOS in Airport Terminals*. **ABT**. Employed by Hawaii DOT.
7. Greg Dehnert, *Assessment of the Effectiveness of Underpasses for Congested Arterials in Honolulu*. **M.S 5/02**.
8. Robin Kasamoto, **ABT**. Employed by ATA, Inc. traffic consultants.
9. Matthew Chan, *Crisp versus Gray Limits for the Determination of Level of Service*. **ABT**. High School math teacher.
10. Yin-Ping Kuo, *Freeway Travel Time Forecasting Using Limited Detector Data*. **M.S. 12/02**. Employed by consulting firm in Taipei, Taiwan.
11. Kongsil Piyalerg, *Analysis of the Effects of Wet Conditions on Highway Traffic Capacity*. **M.S. 8/03**. Pursues PhD degree in Urban and Regional Planning at UHM.
12. Jennifer Arinaga, *Framework for Traffic Signal Design*. **M.S. 12/03**. Employed by Hawaii DOT.
13. Kerwin Chang, *Rainfall Accumulation and Probability Estimations with GIS for Transportation Applications*. **M.S. 11/04**. Employed by Austin-Tsutsumi Asc., Inc.
14. James Watson, *Implications of Origin-Destination Distributions in Freeway Simulation*. **M.S. 11/04**. Employed by Korve Engineering, Oakland, CA.
15. Shenhong Li, *Case Study of the FHWA Traffic Noise Model*. **M.S. 5/08**. Employed by Parsons Brinkerhoff, Honolulu, HI.
16. Alyx Yu, *Evaluation of Autoscope, SamrtSensor and TIRTL for Vehicle Classification*. **M.S. 5/09**. Pursued PhD degree in CEE at UHM.
17. Ahsan Md. Ahsanuzzaman, *Highway Noise Policy: A Proposed Update*. **M.S. 5/09**. Employed by Hawaii DOT.
18. Natasha Soriano, *Development of a Flowchart Methodology for Noise Analysis and Hawaii Traffic Noise Policy Brief*. **M.S. 5/10**. Employed by Hawaii DOT.
19. K.C. Laxman, *Methodology and Inputs for Freeway Noise Analysis with TNM*. **M.S. 5/10**. Employed by Wilson Okamoto Associates, Honolulu, HI.
20. Maja Caroe, *Assessment of Traffic Impact Study Forecasts on Oahu between 1980 and 2010*, **M.S. 5/12**. Employed by Perry Manthos Associates, Honolulu, HI.
21. Alireza Abrishamkar, *License Plate Survey for Traffic Analysis: Improving Accuracy with Correction Algorithms*, **M.S. 5/12**. Employed in Iran.
22. Myles Gota, *Validation of Traffic Impact Study Volume Forecasts for Isolated Developments*, **M.S.** all-but-thesis 2018.
23. Daniel Lee, *Traffic Forecasts for Local By-pass Roads*, **MS** all-but-thesis 2019.
24. Mintu Miah, *Effects of Reading Text while Driving: Analysis of 200 Honolulu Taxi Drivers on a VS500m Simulator*, **M.S. 12/18**. PhD candidate at UT-Arlington.
25. Kishor Bhatta, *Comparative Analysis of Major Contributing Factors in Fatal Traffic Crashes in Alaska, Hawaii, Idaho and Washington, 2007-2016*, **M.S. 12/18**.

26. Rafaela de Melo Barros, *Equity in Transportation Safety and Preliminary Assessment in Hawaii*, **M.S. 9/19**. Employed by Nordic PCL Construction.
27. Flavia Medeiros, *Results of a Survey on Transportation Safety Equity in Hawaii*, **M.S. 8/20**.
28. Tribikram Rajure, *Study of Perceptions of Hawaii Residents on Rural Road Travel Conditions and Behaviors*, **M.S. 8/20**.
29. Abdulrahman Alghamdi, *Feasibility of CAV Delivery Service in Rural Areas*, **M.S. 8/20**.
30. Luana Pereira, started in Fall 2019, **M.S.** in progress.

Ph.D. Qualifying Exam Committee Member

Linda Huang, Honglong Li (1999) -- Emerson Gica, Sumon Kanpirom, Ken Hwa, Piyalerg Kongsil (2000) -- Lin Zhang, Gaur Johnson, Dai Jun (2002) -- Shentang Wang, Xiaojin Ji, Sushant Dhal, Krispin Fernandez (2003) -- Tieshi Huang, Xiaobin Lin, Yuhai Yan, Shuangjie You, Honggiang Zhou (2004) -- Yingyot Chanthawornasawat, Kamal Gautam, Laxman Sharma, Yonghui Song (2005) -- Yingyot Chanthawornasawat, Krystian Paczkowski (2006) -- Claudia Cardona, Krishna Lamichhane, Yanling Yi, Lambros Mitropoulos (2008) -- Also in 2009 (4 students), 2010 (3 students), 2011 (5 students), 2012 (3 students), 2013 (5 students), 2014 (3 students), 2015 (4 students), 2016 (3 students), 2017 (4 students), 2018 (4 students.)

MS or Other Graduate Study Committee Member

1. A.M. Illias Basha, M.S. 9/93
2. Felicitas Ong Sotelo, School of Public Health, M.S. 12/93.
3. Chakravarthy Nalamotu, M.S. 11/95.
4. Andrew Smith, M.S. 3/96.
5. Jeff Hanyu, M.S. 5/99.
6. Jayson Imai, ABT.
7. Kathleen Horgan, M.S. 11/04.
8. Donn Kakuda, M.S. 11/04.
9. Scott Kawai, M.S. 11/04.
10. Svetlana O'Malley, M.S. 11/05.
11. Xiangang Li, M.S. 11/06.
12. Matthew Perrett, M.S. 5/14.
13. Runze Yuan, M.S. 8/20.

Internship Adviser

- 1, 2. Marcel W.J. Bus and Theo A. Heegsma, Universiteit Twente, Enschede, The Netherlands. *Investigation of the Effects of Making the Circulation to Ala Moana Park One Way, West-bound*. April to July 2002.
3. Anne Benvel, College of Rennes, France. Assistant in CEE 462: Traffic Engineering and in various traffic analyses. January to June, 2003.
4. Jacob Miyashiro, high school student intern, Punahou H.S. *Comparisons between DYNASMART and INTEGRATION*. Summer 2003.
5. Kalina Kama, high school student intern, Kailua H.S. *Freeway design with AutoCAD and simulation with FREQ12*. Summer 2004.
6. Shota Nakayama, high school student intern, Kalani H.S. *Freeway models with alternative O-D matrices*. Summer 2004.
7. Arlyn Ramos, high school student intern, Farrington H.S. *Toll lane service rates and modeling of a plaza*. Summer 2005.
8. Randall Balais, high school student intern, Waipahu H.S. *with 9 manual and 2 ETC lanes in VISSIM*. Summer 2005.
9. Intern from Castle H.S., Intersection Warrant Analysis, 2010. Became UHM CEE major.

10. Three Interns from Damien H.S., Volume and Speed Adjustments for Traffic Noise Analysis, 2013. One became UHM CEE major.
11. CEE undergraduate interns from Brazil: Rafaela de Melo Barros, Talita Maringo, Helena Sanabio, summer 2015.
12. CEE undergraduate interns from Brazil: Gabriella Pimenta and Maria Tormin, summer 2016.

Traffic and Transportation Laboratory (TTL)

Developer of the TTL which presently includes seven work stations and two AUTOSCOPE RackVision devices. Software test and evaluation site: **AIMSUN**, EZSignals, HCS, NETSIM, **INTEGRATION**, KRONOS, SYNCHRO, WATSim, SimTRAFFIC, TSIS/CORSIM, **TRANSYT-7F**, DYNASMART, FREQ12, and **VISSIM**. (Actively used at the present time in **bold**.)

Professional Seminar Preparation and Instruction

- Instructor of seminar on **Traffic Simulation with TRANSYT-7F** to federal, state and county staff. Sponsor: Hawaii DOT. Kapiolani Community College, March 1993; 28 attendees.
- Instructor of seminar on **Traffic Engineering and Simulation**. Sponsor: Federal Highway Administration via the UH Office of Technology Transfer and Economic Development. Seminars were given on Oahu, Hawaii, Maui and Kauai in June 1995; 45 engineers attended.
- Instructor of seminar on **Highway Capacity Software (HCS)**. Sponsor: Federal Highway Administration via the UH Office of Technology Transfer and Economic Development. Seminars were given in Honolulu and Kahului in June 1996; 60 engineers attended.
- Instructor of seminar on **Freeway Simulation and the KRONOS Software Program** sponsored by the Federal Highway Administration and the Hawaii State DOT. Two 8-hour seminars were given at the UH Traffic and Transportation Lab, July 2000.
- Instructor of seminar on **Highway Noise Policies, Mitigation and Modeling** at Figg Engineering, Tallahassee, Florida, July 14, 2007; 45 engineers and bridge designers attended.
- Instructor of seminar on **Highway Noise Analysis and TNM**, sponsored by the Federal Highway Administration and the Hawaii State DOT, June 2011.
- Co-producer of seminar as president of HHUA, **Accountability of Big Infrastructure Projects**, with **Robert Poole** (Long Term Risks to Taxpayers: How Projects Get out of Control Using the Wrong Procurement Methods) and **LaVonda Atkinson** (Lessons for Honolulu from the San Francisco Muni Central Subway Extension), Honolulu, HI, February 6, 2015.
- Co-presenter of day long-seminar on **Project-Level Forecasting** for Hawaii State DOT with **Dr. Alan Horowitz**, U. of Wisconsin-Milwaukee, Honolulu, December 15, 2015.
- Seminars on **Traffic Safety Course Development at the BE and ME level**, Developed with support from the World Bank. Tribhuvan University, Kathmandu, Nepal, December 10, 2016.

- Seminars on **Infrastructure Resilience from Natural Disasters and Sea Level Rise, Infrastructure Sustainability** and **Weather Effects on Transportation** prepared after invitation from U.S. Navy for Pacific Partnership sponsored by the U.S. Department of State.
 - Legaspi, The Philippines, July 5-8, 2016
 - Kuantan, Pahang, Malaysia, August 8-13, 2016.
 - Kuala Lumpur and Kuching, Malaysia, April 11-12, 2017.
 - Yap, Federated State of Micronesia, March 26-27, 2018.

RESEARCH

FUNDED PROJECTS

Note: Additional funds were expended as part of several of the projects listed below for new equipment, experimental deployments, etc. Funds that did not pass through the university are indicated as "Other funding."

- ❖ Principal Investigator of two research projects (approved in one contract):
 - 1) INVESTIGATION OF THE EFFECTS OF HELICOPTER NOISE ON HAWAIIAN ISLAND RESIDENTS AWAY FROM AIRPORTS AND HELIPORTS
 - 2) HONOLULU INTERNATIONAL AIRPORT: STATISTICAL ANALYSIS OF CHARACTERISTICS AND FLOWS
 Sponsor: Airports Division, State of Hawaii, Department of Transportation.
 Funding: \$170,000
 Duration: 8/91 to 5/95
 Co-P.I.: professor C.S. Papacostas

- ❖ Principal Investigator, INVESTIGATION OF LIMITED RAMP CLOSURES ALONG THE H-1 FREEWAY.
 - Sponsor: Highways Division, State of Hawaii DOT (20%) and Federal Highway Administration (80%).
 - Funding: \$188,305
 - Other funding: \$110,000. About \$10,000 in in-kind contributions for 6 VCRs, 300 VHS tapes, about 100 helicopter flight hours, use of instrumented cars for surveys, etc., and \$100,000 for the conduct of an actual freeway ramp closure experiment at the Lunalilo Street on-ramp.
 - Duration: 11/96 to 2/03.

- ❖ Principal Investigator, EVALUATION OF *LIGHTGUARD™* FLASHING LIGHTS AT PEDESTRIAN CROSSINGS ON PALI HWY.
 - Sponsor: Federal Highway Administration through Highways Division, State of Hawaii DOT.
 - Funding: \$22,974
 - Other funding: \$20,000. Purchase and installation of LightGuard, controls, solar arrays.
 - Duration: 2/00 to 7/01.

- ❖ Principal Investigator, INVESTIGATION OF TRAFFIC DETECTORS FOR USE IN HAWAII.
 - Lawrence Klein, Ph.D., retired project manager, Hughes Electronics was a collaborator.
 - Sponsor: FHWA (80%) and the Highways Division, State of Hawaii DOT (20%).
 - Funding: \$160,655
 - Other funding: \$50,000. Purchase of detector devices. Also, approximately 250 person-hours of technical labor (traffic detector deployment crew of 4) is donated to the project by HDOT.
 - Duration: 5/00 to 6/04.

- ❖ Principal Investigator, EVALUATION OF THE EFFECTS OF EXPERIMENTAL CLOSURE OF THE BINGHAM STREET OFF-RAMP.
 Sponsor: Highways Division, State of Hawaii DOT.
 Funding: \$22,664
 Other funding: \$10,000. Rental of active signs and portable control devices, installation and removal of concrete barriers.
 Duration: 9/00 to 2/02.

- ❖ Principal Investigator, SIMULATION OF WESTBOUND INTERSTATE H-1 FREEWAY BETWEEN THE AIRPORT VIADUCT AND WAIKELE DURING WEEKDAY AFTERNOON PEAK.
 Sponsor: Highways Division, State of Hawaii DOT (20%) and Federal Highway Administration (80%).
 Funding: \$87,403.
 Other funding: \$15,000. Volume and speed data.
 Duration: 2/04 to 12/05.

- ❖ Cooperating Investigator, UPDATE OF THE STATE PAVEMENT MANAGEMENT SYSTEM AND CALIBRATION OF THE 2002 DESIGN GUIDE FOR HAWAIIAN CONDITIONS
 PI: Professors R. Archilla and P. Ooi.
 Sponsor: Highways Division, State of Hawaii DOT (20%) and Federal Highway Administration (80%).
 Funding: \$35,000 was Prevedouros' share of the budget. Research on automated vehicle detection and classification, and calibration of traffic factors required for pavement design.
 Duration: Commenced in summer 2005 – 5 years.

- ❖ Principal Investigator, HIGHWAY TRAFFIC NOISE ANALYSIS AND ABATEMENT GUIDELINES.
 Sponsor: Highways Division, State of Hawaii DOT (20%) and Federal Highway Administration (80%).
 Funding: \$296,727 plus \$51,127 for extension
 Duration: 10/06 – 12/11.
 Extension: H-1 Corridor TNM Analysis
 Duration: 1/13 – 4/14.

- ❖ Principal Investigator, INVESTIGATION OF ASIM 29X, CANOGA, RTMS, SAS-1 AND SMARTSENSOR FOR LTP, AVC AND RTTM.
 Sponsor: Highways Division, State of Hawaii DOT (20%) and Federal Highway Administration (80%).
 Funding: \$198,824.
 Duration: 11/07 – 10/09.

- ❖ Principal Investigator, HAVO TRAFFIC AND PARKING: CURRENT ISSUES, FUTURE SOLUTIONS.
 Sponsor: Hawaii Volcanoes National Park (HAVO), Department of the Interior, (100%).
 Funding: \$50,000. Plus \$4,000 for data collection (Hawaii DOT) and travel (HAVO)
 Duration: 8/09 – 7/10.

- ❖ Principal Investigator, TRAFFIC FORECASTING GUIDELINES.
 Sponsor: Highways Division, State of Hawaii DOT (20%) and Federal Highway Administration (80%).
 Funding: \$190,000.
 Co-PI: Prof. Alan Horowitz, CEE, University of Wisconsin-Milwaukee.

Duration: 5/12 – 12/15

- ❖ Co-principal Investigator, Tier-1 University Transportation Center: UH-Manoa in collaboration with the universities of Alaska, Idaho and Washington.
Sponsor: U.S. DOT
Funding: \$1,665,000 (UH portion).
Co-PI: Dr. Guohui Zhang, UHM.
Duration: 8/17 – 7/22

MAJOR CONSULTING PROJECTS

I typically engage in consulting projects having substantial academic research content.

- ❖ DEVELOPMENT OF AN INTERACTIVE TOOL FOR THE VISUALIZATION OF TRAFFIC IMPACTS.
PI: D. Brauer at Pacific International Center for High Technology Research (PICHTER)
Sponsor: Department of Business, Economic Development and Tourism, (DBEDT) and the FHWA
Funding: \$250,000
Duration: Started in 1991 and completed in 1993
- ❖ INTELLIGENT VEHICLE HIGHWAY SYSTEM: STRATEGIC DEPLOYMENT FOR OAHU
PI: Dr. D. Simms, IBI Group, Toronto, Canada
Sponsor: City and County of Honolulu (20%) and the FHWA (80%)
Funding: \$450,000
Duration: Started in 1993 and completed in 1995
- ❖ ELECTRONIC TOLLS FOR NATIONAL HIGHWAYS
PI: Dr. N. Skayannis, INTRACOM Corp., Athens, Greece
Sponsor: Ministry of Transport, Greece
Funding: \$2,000,000
Duration: Started in 1998 and completed in 2000
- ❖ PERMANENT DEPLOYMENT OF THE LUNALILO ON-RAMP DIVERSION
PI: Mr. Gregory Hiyakumoto, P.E – R.M.Towill Corp., Honolulu, HI
Sponsor: Hawaii DOT
Funding: \$650,000
Duration: Started in 2002 and completed in 2004
- ❖ WAIKIKI CORRIDOR SIMULATION ANALYSIS WITHOUT AND WITH BUS RAPID TRANSIT
PI: P.D. Prevedouros
Sponsor: Hawaii Transportation Association
Funding: \$15,000
Duration: June-July 2003
- ❖ EMPIRICAL STUDIES ON TRAFFIC FLOW IN INCLEMENT WEATHER
PI: Robert C. Hranac, Cambridge Systematics, Inc.
Sponsor: Federal Highways Administration
Funding: \$264,000
Duration: September 2004 - August 2005
- ❖ ALTERNATIVES ANALYSIS, OPERATIONAL ANALYSIS AND SAFETY ANALYSIS FOR WB H-1 FWY.
PI: Mr. Greg Hiyakumoto, P.E – R.M.Towill Corp., Honolulu, HI

Sponsor: Hawaii DOT
Funding: \$300,000
Duration: 2009 – mid-2011

❖ **TRAFFIC SAFETY ANALYSIS AND EDUCATION IN NEPAL.**

PI: P.D. Prevedouros
Sponsor: World Bank
Funding: \$30,000
Duration: June-Nov. 2016, May-Sept. 2017

SERVICE⁴

Current positions

International

- Greek Ministry of Education – Member in External Evaluation Panels of departments of civil engineering and urban planning at universities in Greece; 2019-2020.

National

- National Research Council, TRB research project panelist
 - ❖ **BTSCRIP BTS-13**, Communicating Safe Behavior Practices to Pedestrians, Bicyclists, and Motorcyclists, 2020-2023
 - ❖ **NCHRP 08-145**, Utilizing Cooperative Automated Transportation Data to Enhance the Use of Freeway Operational Strategies, 2021-2024
 - ❖ **NCHRP 15-80**, Design Guide and Standards for Infrastructure Resilience, 2021-2024
- National Research Council, TRB representative to the UH; 1990-present.
- TRB committee AHB20 on Freeway Operations; Feb. 2003-Mar. 2012 and Apr. 2015-Mar. 2024.
- **Freeway and CAV Simulation Subcommittee AHB20(2) Chair**; May 2005-March 2020.
- ASCE, national committee on Street and Highway Operations; July 1993-present.
- Reviewer for ASCE Journals, Transportation Research, Transportation Research Record, Transportation, World Conference on Transport Research, Resources, Conservation & Recycling, Computer-Aided Civil and Infrastructure Engineering, and others.
- External reviewer of proposals for several state DOT and UTC.
- External reviewer of applications to Associate and Full Professor at various universities.

Past positions

International

- Quality Assurance Panel member, New Cooperative Business Models and Guidance for Sustainable City Logistics--NOVELOG project, European Commission, 2016-2018
- Greek Ministry of Education – Member in External Evaluation Panels of departments of civil engineering of Greek universities; 2011-2013.
- Steering Committee Member and Technical Program Coordinator: **1st International Symposium of Freeway and Tollway Operations**, TRB, Athens, Greece, June 4-7, 2006. The conference attracted 553 participants from 23 countries and included 116 formal presentations in the Compendium of Proceedings CD.
- Local Organizer, Steering Committee Member and Technical Program Coordinator: **2nd International Symposium of Freeway and Tollway Operations**, TRB, Honolulu, Hawaii, June 21-24, 2009.

⁴ Abbreviations explained: ASCE = American Society of Civil Engineers, ITE = Institute of Transportation Engineers, TRB = Transportation Research Board, a unit of the U.S. National Academy of Science, UH = University of Hawaii, CE = Civil Engineering, EIS = environmental Impact Statement, IVHS = Intelligent Vehicle Highway Systems.

- Non-EU committee member, COST⁵ Action TU1004: Modelling Public Transport, 2014-2015.
- Passenger Flows in the Era of Intelligent Transport Systems, 2013-2015.
- Greek Ministry of Education - Second Community Support Framework of the European Community. Reviewer of proposals for the development of graduate programs in engineering and technology; 11/01-12/02.

National

- State Department, Pacific Partnership lecturer on disaster recovery, infrastructure resilience and sustainability, 2016-2018.
- External referee for Excellence in Research (University of Florida).
- TRB committee A1J05: airfield and airspace capacity and delay; 2/92-1/98.
- TRB committee A1J04: airport terminals and ground access; 2/92-1/04.
- TRB committee A1F04: transportation vibration and noise; 3/94-1/00.
- TRB committee A3B11: traffic records and accident analysis; 1/96-1/98 and 1/99-1/02.
- TRB committee A3B05: safety data, analysis and evaluation; 1/99-1/02.
- TRB committee A1C04: traveler behavior and values; 2/93-1/02.
- ITE committee on IVHS research in Europe, Japan and USA; 1992-1994.
- ITE, national committee on Transportation Management Centers; 2001-2006.
- TRB Task Force AH010T: Surface Transportation Weather; 9/05-4/08.

Other Professional

- Council Chair-appointed member of a five member expert panel for the selection of fixed guideway technology for Honolulu (February 2008.)
- President August 2005 to July 2008 of the Hawaii Highway Users Alliance, HHUA.
- Member of the Transit Task Force established by the Council of the City and County of Honolulu for the evaluation of transportation alternatives (2006.)
- Ex-officio member, Technical Advisory Committee, Oahu Metropolitan Planning Organization (2003-2004) – appointed by Transportation Chair of the State Senate.
- Technical committee of the Oahu MPO for a large-scale TSM study in the City and County of Honolulu; 1992-1993.
- Founding member of ITE – Hawaii section, 1992.
- Vice-chair (1992-1993) and chair (1993-1996, 2000-2002), Transportation Technical Group, Hawaii section of ASCE.
- Legislature of the State of Hawaii: Invited commentator on the Proposed Convention Center development (1994), the Waikiki Regional Transportation Plan (1995), Freeway Ramp Closure (1999), Police Department Incident Investigation Procedures (2000).

University

- Coordinator, Department Chairs and Directors Council at University of Hawaii; 6/18-7/20.
- UH Center for Environmental Studies: Reviewer of EIS and EA reports (1995-2015).
- Supervising faculty search committee for the hiring of three faculty members for the NSF EPSCoR sponsored Ike Wai project (2016).
- University Research Council, UHM, 7/99-6/02.
- UH Oral Communication Board; 8/02-6/05. Vice-chair in last year of term.
- University of Hawaii WASC Accreditation in 1998 – Committee 6 on Library and Computing Services and Other Information and Learning Resources; 9/97-8/98.
- Senator at Manoa Faculty Senate; 2/94-6/95.
- UH Manoa Writing Program Faculty Board; 1991-1993.

Department

- CEE Department Chair; 1/15-7/20.
- Graduate Program Chairman, UHM, 8/98-6/03.

⁵ COST: European Cooperation in Science and Technology, cost.eu.

- Author of the evaluation report for the permanent designation of the Doctorate Program in Civil Engineering at the University of Hawaii-Manoa (March 2001.) The PhD program received permanent designation in June 2003.
- Established and advisor of ITE Student Chapter at the UH, 2/93-12/2003.
- 2002-2003 CEE ABET accreditation committee:
 - CEE Industry survey: Developed questionnaire, mailed to 2,800 alumni and analyzed responses; Fall 2000 and Spring 2001 semesters.
 - CEE Employer survey: Developed questionnaire, mailed to 140 CEE employers and analyzed responses; Spring 2003.
- Chair of faculty search committees: pavements – Dr. Jong Kim (1998), infrastructure – Dr. Ricardo Archilla (2002) and transportation – Dr. Guohui Zhang (2015).
- Department search committees: Hydraulics faculty (1992), structures faculty (1996), and infrastructure faculty (2000).
- Other search committees: Pacific Mapping Program Assistant Researcher (1995). Manoa Writing Program executive assistant (1993).
- CEE curriculum committee member 8/90-7/94 and 8/96-12/98, chair 8/94-7/96.
- CEE equipment committee: chair 8/97-7/98.
- CEE strategic planning committee member 8/93-7/96, chair 8/95-12/97.
- Proposer, developer and webmaster of the department's WWW Home Page, 2/96-10/99.
- Equipment, Computer and Software committee member; 8/02-6/04.
- Represented Department Chairman at Pacific Coast Region Department Head Council Annual Meeting, Las Vegas, April 15-16, 2004.

OTHER PROFESSIONAL

MIDWEST SYSTEM SCIENCES INC., WILMETTE, IL
Assistant analyst (4/87-6/89).

THE TRANSPORTATION CENTER, NORTHWESTERN UNIVERSITY, EVANSTON, IL
Principal research assistant in four research projects (10/85-5/90):

- Analysis of Bus Traffic Accidents (UMTA).
- Design and Operation of Signalized Intersections (Illinois DOT).
- Optimization of Chicago's Loop Signal Network (City of Chicago).
- Factors Affecting Suburban Congestion (Illinois DOT).

PACIFIC INT'L CENTER FOR HIGH TECHNOLOGY RESEARCH (PICHTR), HONOLULU, HI
Co-PI on a multimedia application to traffic engineering titled Interactive Visualization of Traffic Impacts (3/92-6/93.)

- Feasibility and demonstration: 3-junction segment on Nimitz Hwy.
- Evaluation of reversible contra-flow and HOV lane on Dillingham Blvd.

INTRACOM, S.A., ATHENS, GREECE
Sabbatical leave (1/98-7/98).

- Vessel Traffic Management Information Services (VTMIS) project.
- Proposal for the installation of advanced tolling equipment on 132 freeway lanes.
- Study and report on advanced tolls and electronic road pricing.

ATTIKES DIADROMES S.A. (Operator of Attica Tollway)
Sabbatical leave (1/05-5/05).

- Micro-simulation of congested areas with Integration.
- Macro-simulation of a 40 km segment with FREQ12 and KRONOS9.
- Calibration of sections modeled in TSIS-CORSIM.

- Assessment of detection technology, traffic detection accuracy and potential improvements. Technologies for rapid incident detection in tunnels.

PROFESSIONAL CONSULTING

Traffic engineering investigations, analyses and trial expert testimonies for engineering firms and law offices (in Honolulu, HI, unless stated otherwise):

- Aegean Odos (Aegean Tollway), Volos, Greece
- Wiss, Janney, Elstner Associates, Inc.
- Reinwald, O'Connor and Playdon
- Law Offices of Howard J. Gravelle
- Wayson Chow, Esq.
- Law Offices of Richard Turbin
- Edwin A. Ebisui, Jr., Esq.
- Kemper and Watts
- Intracom, S.A., Athens, Greece
- Intramet, S.A., Larissa, Greece
- M. R. Wolfe & Associates, Attorneys – Planners, San Francisco, CA
- The IBI Group, Boston, MA
- The R. M. Towill Corporation
- The Alliance for Traffic Improvement
- Iwan – Cray Attorneys at Law, Chicago, IL
- Cambridge Systematics, Inc., Cambridge, MA
- Berkeley Transportation Systems, Berkeley CA
- Wilbur Smith Associates, Eastport, NY

PUBLICATIONS

TEXTBOOKS

C. S. Papacostas and P. D. Prevedouros. **TRANSPORTATION ENGINEERING AND PLANNING**, 2nd edition, Prentice Hall, Englewood Cliffs, N.J., 1993, (646 pp.)

C. S. Papacostas and P. D. Prevedouros. **TRANSPORTATION ENGINEERING AND PLANNING**, 3rd edition, Prentice Hall, Englewood Cliffs, N.J., 2001, (690 pp.)

BOOK SECTIONS

Four-page exhibit, Table 7.1: **Survey to Determine Sensor Data Requirements**, in SENSOR TECHNOLOGIES AND DATA REQUIREMENTS FOR ITS APPLICATIONS, by Lawrence A. Klein, Artech House, 2001.

Section 11.5 **"Ramp Closure – Honolulu, Hawaii"**, FREEWAY RAMP MANAGEMENT AND CONTROL HANDBOOK, Federal Highway Administration, U.S. DOT, Washington, D.C., 2005.

Prevedouros, Panos D. and Martin Stone, **Reversible Express Lanes**, 2008 YEARBOOK OF SCIENCE AND TECHNOLOGY. McGraw-Hill, pp. 288-291.

Prevedouros, Panos D. and Alyx Yu. **Integrated Process for Traffic Project Evaluation and Decision Making**. 2014 YEARBOOK OF SCIENCE & TECHNOLOGY, McGraw-Hill, pp. 171-175.

Authored and reviewed various sections, **Advancing Freeway Operations through Strategic Research**, TRANSPORTATION RESEARCH CIRCULAR E-C218, 81 pp., TRB, Washington, D.C., December 2016.

Mitropoulos, Lambros and Panos D. Prevedouros, **Conventional, Battery-powered and Other Alternative Fuel Vehicles: Sustainability Assessment**, Chapter 5 in BEHAVIOUR OF LITHIUM-ION BATTERIES IN ELECTRIC VEHICLES, Springer series on Green Energy and Technology, 2018.

PAPERS IN ACADEMIC REFEREED JOURNALS

1. Prevedouros, Panos D. and Paul P. Jovanis, **Validation of Saturation Flows and Progression Factors for Traffic Actuated Signal Intersections**, Transportation Research Record, No. 1194: 147-159, 1989.
2. Prevedouros, Panos D. and Joseph L. Schofer, **Suburban Transport Behavior as a Factor in Congestion**. Transportation Research Record, No. 1237: 47-58, 1990.
3. Prevedouros, Panos D. and Joseph L. Schofer, **Trip Characteristics and Travel Patterns of Suburban Residents**. Transportation Research Record, No. 1328: 49-57, 1991.
4. Jovanis, Paul P., Joseph L. Schofer, Panos D. Prevedouros and Koji Tsunokawa, **Analysis of Bus Transit Accidents**. Transportation Research Record, No. 1322: 17-28, 1991.
5. Prevedouros, Panos D., **Associations of Personality Characteristics with Transport Behavior and Residence Location Decisions**. Transportation Research, Vol. 26A, No 5: 381-391, 1992.
6. Prevedouros, Panos D. and Joseph L. Schofer, **Factors Affecting Automobile Ownership and Use**. Transportation Research Record, No. 1364: 152-160, 1992.
7. Prevedouros, Panos D., **Helicopter Noise in Rural Communities: Assessment of Existing Knowledge**. Transportation Research Record, No. 1444: 161-164, 1994.
8. Prevedouros, Panos D. and C. S. Papacostas, **Maximizing the Use of Airport Operations Data: The Case of the Honolulu International Airport**. Transportation Research Record, No. 1461: 48-53, 1994.
9. Prevedouros, Panos D., D. Brauer and R. Sykes, **Development of an Interactive Visualization Tool for the Effective Presentation of Traffic Impacts to Non-experts**. Transportation Research Record, No. 1463: 35-44, 1994.
10. Kawad, Sanjay and Panos D. Prevedouros, **Visitor Demand Forecasting at the Honolulu International Airport**. Transportation Research Record, No. 1506: 18-25, 1995.
11. Prevedouros, Panos D. and C. S. Papacostas, **Analysis of Rural Community Perceptions of Helicopter Noise**. Transportation Research Record, No. 1475: 70-74, 1995. Received Best Paper Award, A1F04 Committee on Transportation Noise, January, 1996.
12. Prevedouros, Panos D. and B. Prasad, **Noise Annoyance from Infrequent Helicopter Overflights: Comparison of Residents' Perceptions and Noise Measurements**. Transportation Research Record, No. 1559: 42-50, 1996.

13. Prevedouros, Panos D. and Cathy Koga, **Comparison of 1985 and 1994 HCM Signalized Intersection Delay Estimates.** ITE Journal, Vol. 66, No. 7: 26-30, July 1996.
14. Prevedouros, Panos D., **Origin-specific Visitor Demand Forecasting at the Honolulu International Airport.** Transportation Research Record, No. 1600: 18-27, 1997.
15. Wang, Yuhao and Panos D. Prevedouros, **Comparison of CORSIM, INTEGRATION and WATSim in Replicating Volumes and Speeds on Three Small Networks.** Transportation Research Record, No. 1644: 80-92, 1998.
16. Prevedouros, Panos D. and Ping An, **Automobile Ownership in Asian Countries: Historical Trends and Forecasts.** ITE Journal, Vol. 68, No. 4: 24-29, April 1998.
17. Prevedouros, Panos D. and Yuhao Wang, **Simulation of a Large Freeway/Arterial Network with INTEGRATION, TSIS/CORSIM and WATSim.** Transportation Research Record, No. 1678: 197-207, 1999.
18. Paravantis, John A. and Panos D. Prevedouros, **Railroads in Greece: History, Characteristics and Forecasts.** Transportation Research Record, No. 1742: 34-44, 2001.
19. Prevedouros, Panos D., **Freeway Ramp Closure: Simulation, Experimentation, Evaluation and Preparation for Deployment.** ITE Journal, Vol. 71, No. 6: 40-44, June 2001.
20. Li, Honglong and Panos D. Prevedouros, **Detailed Observations of Saturation Headways and Start-up Lost Times,** Transportation Research Record, No. 1802: 44-53, 2002.
21. Zhang, Lin and Panos D. Prevedouros, **Signalized Intersection LOS that Accounts for Accident Risk,** Transportation Research Record, No. 1852: 77-86, 2003.
22. Li, Honglong and Panos D. Prevedouros, **Traffic Adaptive Control for Oversaturated Isolated Intersections: Model Development and Simulation Testing,** ASCE Journal of Transportation Engineering, Vol. 30, No. 5, September 2004.
23. Dehnert, Greg and Panos D. Prevedouros, **Reducing Congestion with Low Clearance Underpasses at Urban Intersections: Investigation and Case Study.** ITE Journal, Vol. 74, No. 3: 36-47, March 2004. Received 2005 Institute of Transportation Engineers Van Wagoner Award.
24. Prevedouros, Panos D. and Kerwin Chang, **Potential Effects of Wet Conditions on Signalized Intersection LOS.** ASCE Journal of Transportation Engineering, Vol. 131, No. 12: 898-903, December 2005.
25. Ji, Xiaojin (Jerry) and Panos D. Prevedouros. **Effects of Parameter Distributions and Correlations on Uncertainty Analysis of HCM Delay Model for Signalized Intersections.** Transportation Research Record, No. 1920: 118-124, 2005.
26. Ji, Xiaojin (Jerry) and Panos D. Prevedouros. **Comparison of Methods for Sensitivity and Uncertainty Analysis of Signalized Intersections Analyzed with HCM 2000.** Transportation Research Record, No. 1920: 56-64, 2005.
27. Ji, Xiaojin (Jerry) and Panos D. Prevedouros. **Probabilistic Analysis of HCM Delay for Signalized Intersections.** Transportation Research Record, No. 1988: 67-75, 2006.

28. Watson, James R., and Panos D. Prevedouros. **Derivation of Origin-Destination Distributions from Traffic Counts: Implications to Freeway Simulation.** Transportation Research Record, No. 1964: 260-269, 2006.
29. Prevedouros, Panos D., Jerry Ji, Konstantinos Papandreou, Pantelis Kopelias, and Villy Vegiri. **Video Incident Detection Tests in Freeway Tunnels.** Transportation Research Record, No. 1959: 130-139, 2006.
30. Zhang, Lin, Adrian Ricardo Archilla and Panos D. Prevedouros, **Ordered Probit Modeling of User Perceptions of Protected Left-Turn Signals.** ASCE Journal of Transportation Engineering, Vol. 133, No. 3, March 2007.
31. Halkias, B., P. Kopelias, K. Papandreou, A. Politou, P. Prevedouros, A. Skabardonis, **Freeway Bottleneck Simulation, Implementation and Evaluation.** Transportation Research Record, No. 2012: 84-93, 2007.
32. Kopelias, P., F. Papadimitriou, K. Papandreou, P. Prevedouros, **Urban Freeway Crash Analysis – Geometric, Operational and Weather Effects on Crash Number and Severity.** Transportation Research Record, No. 2015: 123-131, 2007.
33. Ji, Xiaojin (Jerry) and Panos D. Prevedouros, **Probabilistic Analysis of HCM Models: Case Study of Signalized Intersections.** Transportation Research Record, No. 2027: 58-64, 2007.
34. Prevedouros, Panos D., B. Halkias, K. Papandreou, and P. Kopelias. **Freeway Incidents – US, UK and Attica Tollway: Characteristics, Available Capacity and Models.** Transportation Research Record, No. 2047: 57-65, 2008.
35. Yu, Alyx, Panos D. Prevedouros and Goro Sulijoadikusumo, **Evaluation of AUTOSCOPE, SMARTSENSOR HD and TIRTL for Vehicle Classification.** Transportation Research Record, No. 2160: 77-86, 2010.
36. Nathanail, E.G., S. Zaharis, N. Vagiokas and P. D. Prevedouros, **Risk Assessment for the Transportation of Hazardous Materials through Tunnels.** Transportation Research Record, No. 2162: 98-106, 2010.
37. Zhang, Lin and Panos D. Prevedouros. **User Perceptions of Signalized Intersection Level of Service Using Fuzzy Logic.** Transportmetrica, Vol. 7, No. 4, pp. 279-296, Taylor & Francis Journals, July 2011.
38. Yu, Xin (Alyx), Goro Sulijoadikusumo and Panos Prevedouros. **Analysis of Downstream Queues on Upstream Capacity Expansion of Urban Signalized Intersection.** Journal of Transportation Systems Engineering and Information Technology, Vol. 12, No. 3, pp. 98-108, Elsevier, 2012.
39. Yu, Xin (Alyx) and Panos Prevedouros, **Left Turn Prohibition and Partial Grade Separation for Signalized Intersections: Planning Level Assessment.** ASCE Journal of Transportation Engineering, Vol. 139, No. 4, pp. 399-406, April 2013.
40. Mitropoulos, Lambros and Panos D. Prevedouros, **Sustainability Assessment for Transportation Vehicles.** Transportation Research Record, No. 2344: 88-97, 2013.

41. Yu, Xin (Alyx) and Panos Prevedouros, **Performance and Challenges in Utilizing Non-Intrusive Sensors for Traffic Data Collection**. *Advances in Remote Sensing*, Vol. 2 No. 2, pp. 45-50. doi: 10.4236/ars.2013.22006, 2013.
42. Mitropoulos, Lambros and Panos D. Prevedouros, **Multicriterion Sustainability Assessment in Transportation: Private Cars, Carsharing, and Transit Buses**. *Transportation Research Record*, No. 2403: 52-61, 2014.
43. Mitropoulos, Lambros and Panos D. Prevedouros, **Emissions and Cost Model for Urban Light Duty Vehicles**. *Transportation Research Part D: Transport and Environment*, Vol. 41, pp. 147-159, Elsevier, 2015, doi: 10.1016/j.trd.2015.09.024.
44. Mitropoulos, Lambros and Panos D. Prevedouros, **Urban Transportation Vehicle Sustainability Assessment with a Comparative Study of Weighted Sum and Fuzzy Methods**. *Journal of Urban Planning and Development*, Vol. 142, (4). DOI: [http://ascelibrary.org/doi/full/10.1061/\(ASCE\)UP.1943-5444.0000336](http://ascelibrary.org/doi/full/10.1061/(ASCE)UP.1943-5444.0000336), ASCE, 2016.
45. Mitropoulos, Lambros and Panos D. Prevedouros, **Incorporating Sustainability Assessment in Transportation Planning: An Urban Transportation Vehicle Based Approach**, *Transportation Planning and Technology*, Vol 39, (5). DOI: 10.1080/03081060.2016.1174363, 2016.
46. Shi, Liang and Panos D. Prevedouros, **Operational Analysis of Roundabouts with a Mix of Driverless Vehicles**. *Transportation Research Record* 2615, pp. 123-131, DOI: 10.3141/2615-14, TRB, 2017.
47. Yu, Xin (Alyx) and Panos Prevedouros, **Risk Assessment: Method and Case Study for Traffic Projects**. *Journal of Modern Transportation*, 25(4), pp. 236–249, Springer, <https://link.springer.com/content/pdf/10.1007%2Fs40534-017-0140-z.pdf>, 2017.
48. Chen, Cong, Qiong Wu, Guohui Zhang, Xiaoyue Cathy Liu and Panos D. Prevedouros, **Extracting Arterial Access Density Impacts on Safety Performance Based on Clustering and Computational Analysis**, *ASCE Journal of Transportation Engineering, Part A: Systems*, Vol. 144 (4), 2018.
49. Mitropoulos, Lambros and Panos D. Prevedouros, **A Conceptual Life Cycle based Sustainability Framework for Assessing Transportation Vehicles**, *World Review of Intermodal Transportation Research*, Vol. 7 (4), pp. 351-370, 2018.
50. Li, Zhenning, Cong Chen, Qiong Wu, Guohui Zhang, Cathy Liu, Panos D. Prevedouros, and David T. Ma, **Exploring Driver Injury Severity Patterns and Causes in Low Visibility Related Single-Vehicle Crashes Using a Finite Mixture Random Parameters Model**, *Forthcoming in Analytic Methods in Accident Research*, AMAR_2018_39_R3, Elsevier, 2018.
51. Li, Zhenning , Yusheng Ci, Cong Chen, Guohui Zhang, Qiong Wu, Zhen (Sean) Qi, Panos D. Prevedouros, and David T. Ma, **Investigation of Driver Injury Severities in Rural Single-Vehicle Crashes under Rain Conditions Using Mixed Logit and Latent Class Models**, *Accident Analysis and Prevention*, Volume 124, pp. 219-229, 2019.
52. Li, Zhenning , Qiong Wu, Hao Yu, Cong Chen, Guohui Zhang, Zong Z. Tian, and Panos Prevedouros, **Temporal-Spatial Dimension Extension-Based Intersection Control Formulation for Connected and Autonomous Vehicle Systems**, *Transportation Research Part C*, Volume 104, pp. 234-248, July 2019.

PAPERS IN FULLY REFEREED PROCEEDINGS

1. Prevedouros, Panos D. and Joseph L. Schofer, **Social and Cultural Factors Affecting Transportation Behavior in Rapidly Developing Suburbs**. 5th WCTR Selected Proceedings. Yokohama, Japan, March 1989.
2. Prevedouros, Panos D., **Effects of Personality and Occupational Status on Automobile Ownership**. Paper 92-0061, 71st Annual Meeting of the TRB, Washington, D.C., January 1992.
3. Prevedouros, Panos D., **Associations of Locational, Institutional and Personality Factors with Transport Behavior**. 6th WCTR Selected Proceedings, Lyon, France, July 1992.
4. Dehnert, Gregory E. and Panos D. Prevedouros, **A Review of Transportation Issues in Kenya**. Paper 97-0134, 76th Annual Meeting of the TRB, Washington, D.C., January 1997.
5. Prevedouros, Panos D., **Signalized Intersection Capacity Analysis Software**, ASCE Conference Proceedings, Traffic Congestion and Traffic Safety in the 21st Century: Challenges, Innovations, Opportunities, Chicago, IL, June 1997.
6. Prevedouros, Panos D., **H-1 Freeway Ramp Closure: Simulation and Real-world Experiment**, Paper 99-0456, 78th Annual Meeting of the TRB, Washington, D.C., 1999.
7. Prevedouros, Panos D., and Honglong, Li, **A Comparison of Freeway Simulation with INTEGRATION, Kwaves and KRONOS**. Pacific Rim Conference on Highway Capacity, Maui, July 2000. Transportation Research Board, Circular E-C018: 96-107.
8. Prevedouros, Panos D., **Outcomes of a Politically-Motivated Freeway off-ramp Closure**, Paper 02-2192, 81st Annual Meeting of the TRB, Washington, D.C., 2002.
9. Li, Honglong and Panos D. Prevedouros, **Traffic Adaptive Control for Isolated Intersections in Over-saturated Conditions**, Paper 02-2308, 81st Annual Meeting of the TRB, Washington, D.C., 2002.
10. Prevedouros, Panos D., **Data Gathering for Freeway Simulation Using Unintrusive Sensors and Satellite Telemetry**. Proceedings, 2003 IEEE International Conference on Systems, Man and Cybernetics, Washington, D.C., October 2003.
11. Li, Honglong, Panos D. Prevedouros and Lin Zhang, **Development and Testing of the NETSIM, Integration and TACOS Simulator, NIT**. Paper 04-3221, 83rd Annual Meeting of the TRB, Washington, D.C., 2004.
12. Zhang, Lin and Panos D. Prevedouros, **Signalized Intersection LOS that Accounts for User Perceptions**. Paper 04-2412, 83rd Annual Meeting of the TRB, Washington, D.C., 2004.
13. Zhang, Lin and Panos D. Prevedouros and Honglong Li, **Signal Control for Over-saturated Intersections Using Fuzzy Logic**. Paper 05-0156. 84th Annual Meeting of the TRB, Washington, D.C., 2005.

14. Zhang, Lin and Panos D. Prevedouros, **Motorist Perceptions on the Impact of Rainy Conditions on Driver Behavior and Accident Risk**. Paper 05-0239. 84th Annual Meeting of the TRB, Washington, D.C., 2005⁶.
15. Zhang, Lin and Panos D. Prevedouros, **User Perceptions of Signalized Intersection Level of Service**. Paper 05-1887. 84th Annual Meeting of TRB, Washington, D.C., 2005.
16. Zhang, Lin, A. Ricardo Archilla and Panos D. Prevedouros, **Ordered Probit Modeling of User Perceptions of Protected Left-Turn Signals**. Paper No. 06-1531. 85th Annual Meeting of TRB, Washington, D.C., 2006.
17. Prevedouros, Panos D. and Goro Sulijoadikusumo, **Tests of Traffic Sensors and Telemetry Services**. ASCE 9th International Conference on Applications of Advanced Technology in Transportation, AATT 2006 Proceedings, Chicago, August 2006.
18. Prevedouros, Panos D., James Watson, and Jerry Ji, **Tests of Simulation Models FREQ, KRONOS, Integration and VISSIM in Replicating Congested Freeway Flow**. ASCE 9th International Conference on Applications of Advanced Technology in Transportation, AATT 2006 Proceedings, Chicago, August 2006.
19. Papandreou, K., P. Kopelias, V. Vegiri and P. D. Prevedouros, **Tests of Automated Incident Detection with Video Image Processors in Attica Tollway Tunnels**. ASCE 9th International Conference on Applications of Advanced Technology in Transportation, AATT 2006 Proceedings, Chicago, August 2006.
20. Zhang, Lin and Panos D. Prevedouros, **Fuzzy Logic-Based User Perceptions of Signalized Intersections**. Paper No. 07-1111. 86th Annual Meeting of TRB, Washington, D.C., 2007.
21. Halkias, Bill, Dimitrios Mandalozis, Haralambos Malimoglou and Panos D. Prevedouros, **Management Information System for Modern Tollway Facilities. An Option or a Necessity?** 10th International Conference on Applications of Advanced Technologies in Transportation, ASCE, Athens, May 2008.
22. Zhang, Lin and Panos D. Prevedouros, **Motorist Perceptions on the Impact of Rainy Conditions on Driver Behavior and Accident Risk**. 10th International Conference on Applications of Advanced Technologies in Transportation, ASCE, Athens, May 2008.
23. Ji, Jerry and Panos D. Prevedouros, **Probabilistic Analysis of HCM Models: Case Study of Signalized Intersections**. 10th International Conference on Applications of Advanced Technologies in Transportation, ASCE, Athens, May 2008.
24. Zhang, Lin, Panos D. Prevedouros, and Honglong Li, **Warrants for Protected Left-Turn Phasing**. 10th International Conference on Applications of Advanced Technologies in Transportation, ASCE, Athens, May 2008.
25. Zhang, Lin and Panos D. Prevedouros, **User Perceptions of Signalized Intersection Level of Service**. 10th International Conference on Applications of Advanced Technologies in Transportation, ASCE, Athens, May 2008.

⁶ Reference in NTSB Safety Recommendations H-05-12 through -16 (http://www.nts.gov/Recs/letters/2005/H05_12_16.pdf), and H-05-19 through -22 (http://www.nts.gov/Recs/letters/2005/H05_19_22.pdf), July 2005.

26. Prevedouros, Panos D., James K. Tokishi and Karen Chongue, **Simulation of Urban Underpasses for Traffic Congestion Relief**. 10th International Conference on Applications of Advanced Technologies in Transportation, ASCE, Athens, May 2008.
27. Mitropoulos, L.K., P. D. Prevedouros and E.G. Nathanail, **Assessing Sustainability for Urban Transportation Modes: Conceptual Framework**, Paper 10-2832, 89th Annual Meeting of TRB, Washington, D.C., 2010.
28. Mitropoulos, L.K., P. D. Prevedouros and E.G. Nathanail, A **Dynamic Framework for the Monitoring and Assessment of the Urban Transportation Modes Performance**, Paper-03147, 12th WCTR Selected Proceedings, Lisbon, Portugal, July 2010.
29. Nathanail, Eftihia, Giannis Adamos, Panos D. Prevedouros, and Charalampos Petamides, **An Integrated Framework for Assessing the Impact of Advanced Traveler Information Systems on Traffic Performance**, Paper 11-3713, 90th Annual Meeting of TRB, Washington, D.C., 2011.
30. Mitropoulos, L.K., P. D. Prevedouros and E.G. Nathanail, **Sustainability Framework: A Case Study of Urban Transportation Vehicles**. XXIVth World Road Congress. Mexico City, Mexico. September 2011. **Received Sustainability Paper Award** (600 accepted papers, 8 awards.)
31. Yu, Alyx and Panos D. Prevedouros, **Left Turn Prohibition and Partial Grade Separation for Signalized Intersections: Planning Level Assessment**, Paper 12-0324, 91st Annual Meeting of TRB, Washington, D.C., 2012.
32. Caroe, Maja, Panos D. Prevedouros and Alyx Yu, **Volume Forecasts for Environmental Impact Statements and Traffic Impact Analysis Reports: Accuracy of Road and Residential Developments in Honolulu**, Paper 13-1398, 92nd Annual Meeting of TRB, Washington, D.C., 2013.
33. Kottas, P., E. Nathanail and Panos D. Prevedouros, **Experiments with a 2 and 3-dimensional Detection Algorithms for Driver Drowsiness Monitoring**, Paper 14-3262, 93rd Annual Meeting of TRB, Washington, D.C., 2014.
34. Mitropoulos, Lambros K. and Panos D. Prevedouros, **Integrating Urban Vehicle Characteristics into Sustainable Transportation Planning**, Paper 129, 2nd Conference on Sustainable Urban Mobility, Volos, Greece, May 5-6, 2014.
35. Yu, Alyx and Panos D. Prevedouros, **Multiple Attribute and Stakeholder Method for Traffic Project Evaluation and Decision Making**, Paper 15-1630, 94th Annual Meeting of TRB, Washington, D.C., 2015.
36. Mitropoulos, Lambros K. and Panos D. Prevedouros, **Sustainability Assessment of Transportation Vehicles with Fuzzy Logic-based Uncertainty**, Paper 15-1861, 94th Annual Meeting of TRB, Washington, D.C., 2015.
37. Shi, Liang and Panos D. Prevedouros, **Is the HCM Ready to Handle Driverless Cars? An Assessment of Uninterrupted Flow Chapters**, Paper 15-2401, 94th Annual Meeting of TRB, Washington, D.C., 2015.

38. Shi, Liang and Panos D. Prevedouros, **Effects of Driverless Vehicles on the LOS of Basic Freeway and Weaving Segments**, Paper 16-3034, 95th Annual Meeting of TRB, Washington, D.C., 2016.
39. Prevedouros, Panos D. and Bill M. Halkias, **Expressway Forecasts in the Volatile Economic Environment of Greece**, International Symposium on Enhancing Highway Performance (ISEHP) and 3rd ISFO. Berlin, Germany, Elsevier Procedia, pp. 607-619, 2016.
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43. Mitropoulos, Lambros K., Panos D. Prevedouros and Xin (Alyx) Yu, **A Fuzzy and a Monte Carlo Simulation Approach to Assess Transportation Vehicles**, Paper 17-00610, 96th Annual Meeting of TRB, Washington, D.C., 2017.
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45. Mitropoulos, Lambros K., Panos D. Prevedouros and Pantelis Kopelias, **Total Cost of Ownership and Externalities of Conventional, Hybrid and Electric Vehicle**, 3rd Conference on Sustainable Urban Mobility, 3rd CSUM 2016, 26 – 27 May 2016, Volos, Greece, Transportation Research Procedia 24C, 267–274, DOI: 10.1016/j.trpro.2017.05.117, 2017.
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47. Prevedouros, Panos, D., Lambros Mitropoulos and Guohui Zhang, **Sustainability in Civil Engineering (BSCE) Curriculum**, Proceedings of ASCE International Conference on Transportation & Development ([ICTD 2018](#)): Planning, Sustainability, and Infrastructure Systems, pp. 213-222, Pittsburgh, PA, July 15–18, 2018.
48. Prevedouros, Panos D. and Lambros Mitropoulos, **Impact of Battery Performance on Total Cost of Ownership for Electric Drive Vehicle**, Proceedings of 21st IEEE Intelligent Transportation Systems Conference, Maui, November 4-7, 2018.
49. Miah, Mintu M. and Panos D. Prevedouros, **Effects of Reading Text While Driving: Analysis of 200 Honolulu Taxi Drivers on a Simulator**, Paper 19-00176, 98th Annual Meeting of TRB, Washington, D.C., 2019.

50. Nathanail, Eftichia, Panos D. Prevedouros and Mintu M. Miah, **Predicting the Impact of Text-Reading Using Decision Trees**, Paper No. 245, EPIA Conference on Artificial Intelligence, Vila Real, Portugal, September 3-6, 2019.
51. Nomura, Diana, Panos D. Prevedouros and Rafaela De Melo Barros, **Traffic Safety Problems at Popular Rural Tourist Attractions**, Paper 20- 02953, 99th Annual Meeting of TRB, Washington, D.C., 2020.
52. Prevedouros, Panos D., **Traffic Safety Analysis for Minorities in Urban and Rural Regions**, ETIC 2020, Forthcoming in archival proceedings, Conference cancelled due to Covid-19, Johor City, Malaysia, March 24-25, 2020.
53. De Melo Barros, Rafaela, Panos D. Prevedouros, Eftichia Nathanail, and Guohui Zhang, **Emergency Response and Other Traffic Safety Equity Perceptions in Hawaii**, ASCE ICTD 2020, Forthcoming in archival proceedings, Conference cancelled due to Covid-19, Seattle, WA, May 26-29, 2020.
54. Prevedouros, Panos D., **Traffic Safety Analysis for Minorities in Urban and Rural Regions**, International Journal of Engineering Trends and Technology, <http://ijettjournal.org/special-issues/ijett-aiic103>, pp. 10-15, 2020.
55. Chong, Braxton, Panos D. Prevedouros and Luana Carneiro Pereira, **Analysis of Speed Profiles of Near-Miss Events from On-Board Cameras in Taxicabs**, Paper 21- 01590, 100th Annual Meeting of TRB, 2021.

PAPERS IN CONFERENCE PROCEEDINGS

1. Prevedouros, Panos D., A Model of Unsignalized Intersection Capacity Based on Erlang-3 Headway Distribution. INTERSECTIONS WITHOUT TRAFFIC SIGNALS, Werner Brilon editor. Springer-Verlang: 165-179, 1988.
2. Prevedouros, Panos D. and Joseph L. Schofer, Factors Affecting Automobile Ownership and Use. Proceedings of the 6th Conference of the International Association for Travel Behavior, Quebec City, Quebec, Canada. May 1991.
3. Prevedouros, Panos D., Actuated Signalization: Traffic Measurements and Capacity Analysis. Proceedings of the 61st Institute of Transportation Engineers Annual Meeting, Milwaukee, WI, September 1991.
4. Prevedouros, Panos D., Trip Rates Adjustments for Impact Assessment and Congestion Management. Proceedings of the Pacific Rim TransTech Conference by FHWA/Washington State DOT /ASCE, Seattle, WA, July 1993.
5. Brauer, Dave, Panos D. Prevedouros and Randolph J. Sykes, Interactive Visualization of Traffic Impacts. Proceedings of the International Conference on Computer Applications in Industry and Engineering of ISCA, Honolulu, Hawaii, December 15-17, 1993.
6. Prevedouros, Panos D., Assessment of Merits of Converting Lanes for General or HOV Use. Proceedings of the 66th Institute of Transportation Engineers Annual Meeting, Minneapolis, MN, September 1996.

7. Prevedouros, Panos D., Use of AUTOSCOPE for the Analysis of Freeway Conditions in Honolulu. REFLEXEN: Trafiktekniska Foreningen, pp. 9-11, No. 2, Stockholm, Sweden, 1997.
8. Prevedouros, Panos D., Automated Tolls for Greece: Systems Review and Performance with AVC. Proceedings of the 6th ITS World Congress, Toronto, November 1999.
9. Prevedouros, Panos D. , and Kevin D. Kasamoto, Incident Management Simulation on a Two Freeway Corridor in Honolulu. Proceedings of the 6th ITS World Congress, Toronto, November 1999.
10. Prevedouros, Panos D., Evaluation of in-pavement Flashing Lights on a Six Lane Arterial Crossing. Proceedings of the 71st Institute of Transportation Engineers Annual Meeting, Chicago, IL, August 2001.
11. Prevedouros, Panos D., Lawrence A. Klein, and Steve Tagupa. Tests of Unintrusive Traffic Detectors and Automated Data Retrieval. Paper 0014-NATMEC 2004, North American Travel Monitoring Exhibition and Conference, San Diego, June 2004.
12. Halkias, B., K. Papandreou, P. Kopelias, P. Prevedouros and A. Skabardonis. Attica Tollway Management in the Athens 2004 Olympic Games. 12th World Congress on Intelligent Transportation Systems, San Francisco, CA, November 2005.
13. Prevedouros, Panos D., Jerry Ji, Bill Halkias, and Anna Politou. Large Scale Applications of Simulation Models to Freeways. WORKSHOP ON TRAFFIC MODELING: Simulation Models: From the Labs to the Trenches. Sedona, AZ, September 2005.
14. Wolfgramm, Juanita and Panos D. Prevedouros, Toll Plaza Modeling with VISSIM, ITE District 6 Annual Meeting, Honolulu, HI, June 2006.
15. Politou, Anna, Georgia Gania and Panos Prevedouros, Attica Tollway: Characteristics and Forecasts of a New Freeway, 1st International Symposium of Freeway and Tollway Operations, TRB, Athens, June 4-7, 2006.
16. Wolfgramm, Juanita, Frank Thybeau and Panos D. Prevedouros, Attica Tollway Optimal Electronic/Manual Toll Lane Allocation with Simulation, 2006 ITE District 6 Annual Meeting, Honolulu, HI, June 2006.
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18. Prevedouros, Panos, Bill Halkias, Dimitrios Mandalozis and Anna Politou, The Motorist as a Customer: Making Customer Satisfaction Important in Operating a Major Tollway, First International Symposium on Transportation and Development Innovative Best Practices, Beijing, China, pp. 63-68, April 24-26, 2008.
19. Papadimitriou, Fanis, Bill Halkias, Kostas Papandreou, Pantelis Kopelias and Panos Prevedouros, Athens 2004 Olympics: The Importance of a Freeway for an Olympic Size Event, First International Symposium on Transportation and Development Innovative Best Practices, Beijing, China, pp. 290-295, April 24-26, 2008.

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22. Prevedouros, Panos, ITS Instruction and Research at UHM, Proceedings of International Exchange Forum, Saitama University, Japan, March 5-6, 2008.
23. Mitropoulos K.L., P. D. Prevedouros and E. G. Nathanail, A Multidimensional Prism for the Evaluation of Urban Transportation Systems. 5th International Conference on Transportation Research. Athens, Greece. September 2010.
24. Mitropoulos K.L. and P. D. Prevedouros, Sustainability Framework for the Life Cycle Assessment of Light-Duty Vehicles. ASCE Proceedings of 11th ICTPP. Nanjing, China, August 2011. (http://ascelibrary.org/proceedings/resource/2/ascecp/421/41186/434_1)
25. Yu, Xin, Goro Sulijoadikusumo, Honglong Li and Panos D. Prevedouros, Reliability of Vehicle Volume, Speed and Classification Detection with Non-intrusive Sensors. ASCE Proceedings of 11th ICTPP, Nanjing, China, August 2011. (http://ascelibrary.org/proceedings/resource/2/ascecp/421/41186/414_1)
26. Xin Yu, Panos Prevedouros, and Goro Sulijoadikusumo, Challenges in Vehicle Classification, 12th COTA International Conference of Transportation Professionals, Beijing China Aug. 3-6, 2012.
27. Xin Yu and Panos Prevedouros, Performance and Challenges in Utilizing Non-Intrusive Sensors for Traffic Data Collection, 6th International Conference on Industrial Engineering and Management, Zhengzhou, China, Aug. 10-12, 2012.
28. Prevedouros, Panos, 10 Requirements for Infrastructure Mega-Project Success, The Hellenic Institute of Transportation Engineers, SES News No. 179, February 2012. (<http://www.ses.gr/vivliothiki/edeltia/323-ed179.html>)
29. Prevedouros, Panos and Lambros M. Mitropoulos, Sample Sustainability Assessment for Automobiles by Type of Propulsion, International Symposium on Green Manufacturing and Applications (ISGMA 2013), Honolulu, HI, June 25-29, 2013.
30. Shi, Liang, Lambros K. Mitropoulos, Xin Yu and Panos D. Prevedouros, Sustainability Assessment under Multi-Attribute Uncertainty for Alternative Fuel Vehicles and Driverless Cars, Transportation for Sustainability – An International Conference, The Keck Center of the National Academies, Washington, DC, May 6-8, 2015.
31. Prevedouros, Panos and Lambros M. Mitropoulos, Fuzzy Sustainability Assessment of Urban Transportation Vehicle Technologies, 7th Conference on Transport Research (ICTR2015), Athens, Greece, November 4-6, 2015.
32. Chen, C., Q. Wu, G. Zhang, R. A. Tarefder, Z. Tian, P. D. Prevedouros, Bayesian Network-based Pedestrian/Bicyclist Behavioral Analysis in Intersection-related Crashes, 10th UTC Spotlight Conference, Washington, D.C., November 2016.

33. Li, Zhenning , Cong Chen, Guohui Zhang, Haizhong Wang, Panos D. Prevedouros, and Tianwei Ma, Critical Path Identification for Traffic Infrastructure Resilience Enhance Impacted by Natural Hazards, 2017 PRiMO Conference--Navigating Towards Security and Sustainability, Honolulu, Hawaii, March 20-23, 2017
34. Prevedouros, Panos, D., Sustainability in Civil Engineering, Poster presented at 2017 SENCER Summer Institute, Stony Brook University, New York, August 3-6, 2017.
37. Abrishamkar, Alireza, Xin Yu, Panos D. Prevedouros, Specific Considerations for Non-Permanent Data Collection Practices: Experienced Cases in Hawaii (USA) and China, The 17th International Conference in Traffic and Transportation Engineering, February 18-19, Milad Tower Convention Center, Tehran, Iran, 2018.
38. Levine Arielle, Mark Luther, Panos D. Prevedouros, Rick Spinrad, Wie Yusuf., Recommendation No. 28: Leverage, Leverage, Leverage, White Paper, NSF Coasts and People (CoPe) Workshop, San Diego, CA, September 27-28, 2018.
39. Kishor Bhatta and Panos D. Prevedouros, Fatality Analysis of Native Hawaiians in the State of Hawaii, 2007-2016, PacTrans Conference 2018, Univ. of Alaska-Fairbanks, October, 2018.
40. Prevedouros, Panos D., Eftihia Nathanail, Md. Mintu Miah and Rafaela De Melo Barros, Predicting Behavior of Professional Drivers while Text-Reading Using Cluster Modeling, Paper 185, Conference on Road Safety & Simulation (RSS2019.org), Iowa City, Iowa, USA, October 14-17, 2019.
41. Rafaela de Melo Barros and Panos D. Prevedouros, Equity in Transportation Safety and Preliminary Assessment in Hawaii, PacTrans Conference 2019, Univ. of Washington, Seattle, October, 2019.
42. Nathanail, Eftihia, Panos D. Prevedouros, Georgia Aggida and Vaia Drakouli, Using Autonomous Vehicles in Car Pooling and Car Sharing Systems: A Comparison between User Perceptions and Performance Estimations, ICTR Conference 2019, Athens, Greece, October 24-25, 2019.

TECHNICAL REPORTS

1. **DESIGN AND OPERATION OF SIGNALIZED INTERSECTIONS IN ILLINOIS.** (with P. Jovanis and N. Rouphail.) Report prepared for Illinois DOT. The Transportation Center, Northwestern University, April 1987. (99 pp.)
2. **CHICAGO LOOP TRAFFIC SIGNAL NETWORK OPTIMIZATION.** Report prepared for the Department of Public Works, City of Chicago. The Traffic Institute, Northwestern University, May 1988. (43 pp.)
3. **ANALYSIS OF BUS TRANSIT ACCIDENTS: EMPIRICAL, METHODOLOGICAL AND POLICY ISSUES.** (with P. Jovanis, J. Schofer and K. Tsunokawa.) Report prepared for UMTA. The Transportation Center, Northwestern University. October 1988. (111 pp.)
4. **CHARACTERISTICS AND TRANSPORTATION ATTITUDES OF DOWNTOWN CHICAGO PEDESTRIANS.** Report prepared for Chicago Transit Authority by Midwest System Sciences and Market Opinion Research. April 1989.

5. **DEMOGRAPHIC, SOCIAL, ECONOMIC AND CULTURAL FACTORS AFFECTING SUBURBAN CONGESTION.** (with J. Schofer.) Report prepared for CATS and Illinois DOT. The Transportation Center, Northwestern University. March 1990. (413 pp.)
6. **TRAVEL CHARACTERISTICS AND MODE CHOICE BEHAVIOR OF CHICAGO AND SUBURBAN RESIDENTS.** Report prepared for CTA by Midwest System Sciences. Wilmette, IL, July 1989.
7. **ANALYSIS AND INTERPRETATION OF FACTORS AFFECTING CTA RIDERSHIP.** Marketing research study prepared for CTA by Midwest System Sciences. Wilmette, IL, July 1990.
8. **DILLINGHAM BOULEVARD: TRAFFIC PERFORMANCE EVALUATION OF POTENTIAL LANE REALLOCATIONS.** Traffic analysis study prepared for PICHTR. Honolulu, HI, February 1993.
9. **HONOLULU INTERNATIONAL AIRPORT: STATISTICAL ANALYSIS OF CHARACTERISTICS AND FLOWS** (with C. S. Papacostas.) Report Prepared for Airports Division, Hawaii DOT. November 1993. (152 pp.)
10. **DILLINGHAM BOULEVARD: TRAFFIC PERFORMANCE EVALUATION OF POTENTIAL ADDITION OF A PERMANENT HOV LANE.** Traffic analysis study prepared for PICHTR. May 1993.
11. **EFFECTS OF HELICOPTER NOISE ON RURAL RESIDENTS OF HAWAII AWAY FROM AIRPORTS AND HELIPORTS** (with C. S. Papacostas.) Report Prepared for Airports Division, Hawaii DOT. April 1994. (285 pp.)
12. **VISITOR FORECASTING FOR THE HONOLULU INTERNATIONAL AIRPORT: A MODEL SYSTEM WITH USA, JAPAN, KOREA, CANADA, TAIWAN, AUSTRALIA AND NEW ZEALAND.** Final Report Prepared for Airports Division, Hawaii DOT. May 1995. [Report not publicly available due to private industry data.] (60 pp.)
13. **INTERSECTION ANALYSIS: THEORY AND SOFTWARE** (with C. Koga.) FHWA/LTAP workshop manual. University of Hawaii, Office of Technology Transfer and Economic Development. May 1995. (204 pp.)
14. **AIRPORTS OF TOMORROW.** Transportation Research Circular 445, TRB, May 1995. (Joint committee product.)
15. **HIGHWAY CAPACITY SOFTWARE,** FHWA/LTAP workshop manual. University of Hawaii, Office of Technology Transfer and Economic Development. June 1996. (59 pp.)
16. **TOLLING AND AUTOMATED VEHICLE CLASSIFICATION SYSTEMS: REVIEW OF THE STATE-OF-THE-ART AND POSTULATION OF AN UPGRADED SYSTEM FOR GREECE.** Report prepared for Development Programmes Department, INTRACOM, Spring 1998. (In Greek, 85 pp.)
17. **TRANSPORTATION ACCESS AND SECURITY CONCERNS AT INTRACOM.** Report prepared for Board of Directors of the INTRACOM Group, February 1998. (In Greek, 24 pp.)
18. **INVESTIGATION OF LIMITED RAMP CLOSURES ALONG THE H-1 FREEWAY, Volume 3: WEST BOUND LUNALILO ST. ON-RAMP CLOSURE: JUSTIFICATION, DESIGN AND ANALYSIS OF RESEARCH EXPERIMENT.** Report prepared for Hawaii DOT and FHWA, Honolulu, November 1999. (181 pp.)
19. **KRONOS TUTORIAL.** Manual for Hawaii DOT. March 2000. (79 pp. and CD-ROM.)

20. **EVALUATION OF *LIGHTGUARD™* FLASHING LIGHTS AT A PEDESTRIAN CROSSING ON PALI HWY.** Report prepared for Hawaii DOT. September 2000. (67 pp.)
21. **INVESTIGATION OF TRAFFIC DETECTORS FOR USE IN HAWAII, Volume 1: *TRAFFIC DETECTION TECHNOLOGIES*** (with L. Klein and M. Chan.) Report prepared for Hawaii DOT and the FHWA. December 2000. (87 pp.)
22. **DOCTORATE IN CIVIL ENGINEERING DEGREE: SELF-EVALUATION FOR THE 1993 TO 2000 PERIOD.** Report prepared for Graduate Council, University of Hawaii at Manoa. March 2001. (57 pp.)
23. **INVESTIGATION OF TRAFFIC DETECTORS FOR USE IN HAWAII, Volume 2: *OVERHEAD DETECTOR INSTALLATION ISSUES AND EXPERIENCES*** (with L. Klein and M. Chan.) Report prepared for Hawaii DOT and the FHWA. December 2000. (36 pp.)
24. **EVALUATION OF THE EFFECTS OF EXPERIMENTAL CLOSURE OF THE BINGHAM STREET OFF-RAMP.** Report prepared for Hawaii DOT. November 2001. (82 pp.)
25. **DEVELOPMENT OF A TRANSPORTATION CENTER AT THE UH-MANOA,** Proposal to UH administration and Hawaii Legislators. January 2002. (15 pp.)
26. **FREEWAY SIMULATION OF SCENARIOS BY R. M. TOWILL CORPORATION REDUCING LUNALILO STREET FREEWAY ON-RAMP CONGESTION.** Report prepared for R. M. Towill Corp. March 2002. (26 pp.)
27. **INVESTIGATION OF LIMITED RAMP CLOSURES ALONG THE H-1 FREEWAY, Volume 2: *EAST BOUND ANALYSES*.** Report prepared for Hawaii DOT and FHWA. January 2003. (78 pp.)
28. **INVESTIGATION OF LIMITED RAMP CLOSURES ALONG THE H-1 FREEWAY, Volume 1: *PROJECT DESCRIPTION AND WEST BOUND ANALYSES*.** Report prepared for Hawaii DOT and FHWA. June 2003. (215 pp.)
29. **INVESTIGATION OF LIMITED RAMP CLOSURES ALONG THE H-1 FREEWAY, Volume 3: *DETECTOR INSTALLATIONS AND TESTS*.** Report prepared for Hawaii DOT and FHWA. December 2004. (165 pp.)
30. **DPLY TO ELESS (E) IMPROVEMENT SCENARIOS.** Report to Attikes Diadromes, S.A. (Operator of Attica Tollway) for Submission to Ministry of Public Works of Greece, February 2005 (20 pp.)
31. **BASE FREEWAY SIMULATION MODELS FOR ATTIKI ODOS MOTORWAY.** Report to Attikes Diadromes, S.A. May 2005 (33 pp.)
32. **EVALUATION OF DEMONSTRATION OF REROUTING THE WEST-BOUND LUNALILO STREET ON-RAMP (DEPLOYED IN AUGUST 2004).** Report prepared for R. M. Towill Corp. June 2005. (42 pp.)
33. **BASE SUMMER FREEWAY SIMULATION MODELS FOR ATTICA TOLLWAY** (with Anna Politou.) Report to Attikes Diadromes, S.A., January 2006 (41 pp.)
34. **SIMULATION OF WESTBOUND INTERSTATE H-1 FREEWAY BETWEEN AIRPORT AND WAIKELE DURING THE AFTERNOON PEAK.** Report prepared for Hawaii DOT and FHWA. October 2006. (42 pp.)
35. **HIGHWAY TRAFFIC NOISE ANALYSIS AND ABATEMENT GUIDELINES: REVIEW OF NOISE POLICIES, MITIGATION METHODS AND ANALYSIS TOOLS.** Report prepared for Hawaii DOT and FHWA. October 2007. (111 pp.)

36. University of Hawaii Congestion Study Group (UHCS), **TRANSPORTATION ALTERNATIVES ANALYSIS FOR MITIGATING TRAFFIC CONGESTION BETWEEN LEEWARD OAHU AND HONOLULU**. Report prepared for the People of Hawaii, Honolulu. March 2008 (version 4.1, 122 pp.)
37. University of Hawaii Congestion Study Group (UHCS), **TRANSPORTATION ALTERNATIVES ANALYSIS FOR MITIGATING TRAFFIC CONGESTION BETWEEN LEEWARD OAHU AND HONOLULU**. Final report prepared for the People of Hawaii. June 2008 (version 5, 142 pp.)
38. **SIMULATION OF WESTBOUND INTERSTATE H-1 FREEWAY BETWEEN AIRPORT AND WAIKELE DURING THE AFTERNOON PEAK**. Report prepared for Hawaii DOT and FHWA. August 2009. (52 pp.)
39. **ACTIVE TRAFFIC MANAGEMENT FOR ATTIKI ODO MOTORWAY (ATTICA TOLLWAY)**. Report to Attikes Diadromes, S.A. March 2010 (22 pp.)
40. **FREEWAY SIMULATION FOR LUNALILO STREET ON-RAMP AND H-1 FREEWAY**. Report prepared for R. M. Towill Corp. March 2010. (12 pp.)
41. **TRAFFIC NOISE ANALYSIS AND ABATEMENT POLICY UPDATE**, Report prepared for Hawaii DOT and the FHWA Based on 1997 FHWA Policy. December 2009. (38 pp.)
42. **HAVO TRAFFIC CIRCULATION AND PARKING ANALYSIS**, Report prepared for Hawaii Volcanoes National Park, National Park Service. July 2010. (109 pp.)
43. **2011 HIGHWAY NOISE POLICY FOR STATE OF HAWAII**, Report prepared for the Hawaii DOT and FHWA Based on 2010 FHWA Policy. March 2011. (33 pp.)
44. **SENSOR TESTS FOR VEHICLE CLASSIFICATION**, Report prepared for Hawaii DOT and FHWA. December 2011. (217 pp.)
45. **INVESTIGATION OF FUEL PRICE ELASTICITY ON MOTORWAY TRAVEL: WHAT DOES INTERNATIONAL EVIDENCE MEAN FOR TRAVEL DEMAND ON AEGEAN MOTORWAY AFTER A 36% INCREASE IN FUEL COST?** Report prepared for Aegean Motorway. November 2011. (12 pp.)
46. **ANALYSIS OF ATTICA TOLLWAY TOLL TRANSACTIONS FROM 2005 TO 2012 – THE EFFECT OF 2010 FUEL PRICE INCREASE, AND FORECASTS TO 2024**. Report prepared for Attica Tollway. March 2013. (20 pp.)
47. **TNM NOISE ANALYSIS OF CENTRAL H-1 FREEWAY**, Final report prepared for Hawaii DOT and FHWA. April 2014. (76 pp.)
48. **GUIDELINES FOR PROJECT LEVEL TRAFFIC FORECASTING**, with Alan Horowitz, Draft report prepared for Hawaii DOT and the FHWA. DRAFT, February 2014. (88 pp.)
49. **GUIDELINES FOR PROJECT LEVEL TRAFFIC FORECASTING**, with Alan Horowitz, Final report prepared for Hawaii DOT and the FHWA. December 2015. (127 pp.)
50. **2007–2016 FATAL TRAFFIC CRASHES IN ALASKA, HAWAII, IDAHO, AND WASHINGTON AND CHARACTERISTICS OF TRAFFIC FATALITIES INVOLVING HAWAIIANS AND CSET MINORITIES**, with K. Bhatta and M. M. Miah, Final report prepared for Center for Safety Equity in Transportation (CSET) and the U.S. DOT, INE/CSET 19.06, February 2019. (93 pp.)

51. **EFFECTS OF READING TEXT WHILE DRIVING: A DRIVING SIMULATOR STUDY**, with M. Mintu Miah and Eftihia Nathanail, Final report prepared for Center for Safety Equity in Transportation (CSET) and the U.S. DOT, INE/CSET 20.05, February 2020. (39 pp.)

52. **RESULTS OF A SURVEY ON TRANSPORTATION SAFETY EQUITY IN HAWAII**, with Flávia Nunes Duque de Medeiros and Rafaela De Melo Barros, Final report prepared for Center for Safety Equity in Transportation (CSET) and the U.S. DOT, INE/CSET 20.07, August 2020. (45 pp.)

REPORTS PREPARED FOR EARNING A DEGREE

THE HUMANISTIC ASPECTS OF TRAFFIC ACCIDENTS. Thesis for Diploma in Engineering. Department of Land Surveying, Aristotelian University, Thessalonica, Greece, 1984 (in Greek, 143 pp.)

EFFECTS OF THE ANALYSIS INTERVAL ON DELAY ESTIMATION FOR SIGNALIZED INTERSECTIONS. Master's Thesis. Department of Civil Engineering, Northwestern University, Evanston, Illinois, 1987 (84 pp.)

DEMOGRAPHIC, SOCIAL, ECONOMIC AND PERSONALITY FACTORS AFFECTING SUBURBAN TRANSPORT BEHAVIOR. Dissertation for Ph.D. degree. Department of Civil Engineering, Northwestern University, Evanston, Illinois, 1990 (332 pp.)

PROFESSIONAL PRESENTATIONS – 2010 to present

1. **Data We Need to Manage Our Freeways**, Session 202: Innovations in Freeway Operations, Annual Meeting of TRB, Washington, D.C., 2010.
2. Invited speaker, **Evaluating the Costs and Benefits of Rail Transit in Honolulu**, School of Public Policy, UCLA, February 24, 2010.
3. Invited speaker, **Transportation, Energy, Sustainability: Importance and Research**, Tongji University, Shanghai, China, August 18, 2011.
4. Invited speaker, **Transportation and Energy Challenges for China and India**, Harbin Institute of Technology, Harbin China, August 20, 2011.
5. Training Seminar on **Transportation Planning: Practices and Problems**, Advanced Research and Training Institute (ARTIST), Kathmandu, Nepal, April 18-20, 2012.
6. Invited speaker, **Transportation and Energy: Fundamentals and Comparisons**, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, S. Korea, April 25, 2012.
7. **Urban Transportation for Large Cities with 500,000 - 2,500,000 Population" BRT, HOT, CS, EV and BTU**, Special Conference of the 20th Anniversary of Transportation Program at Ajou University, Seoul, S. Korea, April 26, 2012.
8. Invited speaker, **Transportation Sustainability Analysis**, Korea University, Seoul, S. Korea, April 27, 2012.
9. Session Chair and Presenter, **Sustainability Assessment for Automobiles by Type of Propulsion**, International Symposium on Green Manufacturing and Applications (ISGMA), Honolulu, Hawaii, June 26-28, 2013.
10. Invited speaker, **Fighting Boondoggles: The Honolulu Rail Transit**, American Dream Coalition, Washington, D.C., October 27-29, 2013.
11. Presenter and panelist, **Traffic Congestion Solutions for Cities**, Student Global Leadership Institute, Punahou Schools, July 23, 2014.
12. Keynote speaker, **Sustainability for Engineers**, 2nd Annual Pacific Water Conference, Honolulu, HI, February 4, 2015.
13. Keynote speaker, **The Future of Transportation**, Annual Meeting, Western Motor Tariff Bureau, Honolulu, HI, March 11, 2016.

14. Expert lecturer, **Infrastructure Resilience from Natural Disasters and Infrastructure Sustainability**, Pacific Partnership 2016, U.S. Navy. Legaspi, The Philippines, July 5-8, 2016, and Pahang, Malaysia, August 8-13, 2016.
15. Keynote speaker, **Honolulu Rail: Now What?** Hawaii's Thousand Friends Annual Dinner Meeting, Honolulu, HI, November 13, 2016.
16. **Artificial Intelligence, Automation, and the Economy: A Summary of the December 20, 2016 Report from the Office of the U.S. President**, 96th annual meeting of the TRB, Washington, D.C., January 8, 2017. Presented at AHB20(2) subcommittee meeting.
17. Expert lecturer, **Infrastructure Resilience from Natural Disasters and Sea Level Rise, Infrastructure Sustainability and Weather Effects on Transportation**, Pacific Partnership 2017, U.S. Navy., Kuala Lumpur and Kuching, Malaysia, April 11 and 12, 2017.
18. **Maui and Statewide Surface Transportation Challenges and Opportunities**, Grassroot Institute Luncheon Meeting, Maui Country Club, Paia, June 22, 2017.
19. Invited speaker, **Honolulu Rail A Mega Boondoggle in Paradise**, American Dream Coalition, Washington, D.C., August 6-8, 2017.
20. Expert lecturer, **Infrastructure Resilience from Natural Disasters and Sea Level Rise, Infrastructure Sustainability and Weather Effects on Transportation**, Pacific Partnership 2017, U.S. Navy., Yap, Federated State of Micronesia, March 26-27, 2018.
21. Session Leader, **Sustainability Options, Courses and Track for BS in Civil Engineering**, ABET Symposium, San Diego, April 12-13, 2018.
22. Luncheon speaker, **Good News: AI and Driverless Cars. Bad News: Honolulu Infrastructure**, Real Estate Counselors, Pacific Club, Honolulu, HI, April 20, 2018.
23. **Driver Distraction: Perception Survey and Driving Simulation Results**, presentation at 2018 CICTP, Beijing, China, July 5-7, 2018.
24. **Transportation Sustainability Analysis: Alternative Fuel Vehicles**, presentation at World Bank Transportation Fuels Forum, Beijing, China, July 8, 2018.
25. **Island and Coastline Sustainability**, NSF Coasts and People (CoPe) Workshop, San Diego, CA, September 27-28, 2018.
26. Welcome remarks (Oct. 4) and Presenter (Oct. 5), **Life Cycle Analysis of Conventional, Battery-powered and Other Alternative Fuel Vehicles**, International Symposium on Emerging Trends in Transportation (ISETT), COTA, October 4-6, 2018, Honolulu, Hawaii, USA.
27. **Transportation Sustainability Analysis: Alternative Fuel Vehicles**, Presentation to the Department of Civil Engineering and Natural Resources, University of Canterbury, Christchurch, New Zealand, March 17, 2019.
28. **Construction Cost and Forensic Audit of Honolulu Rail**, panelist with Law Professor Randall Roth and City Council Member Heidi Tsuneyoshi, Grassroot Institute of Hawaii, May 3, 2019.
29. **CAV Features and Scenarios, and Applied Research on CAV**, ITS and CAV Workshop, Invited hour-long lecture, Chang'an University, Xi'an, China, July 10, 2019.

OTHER

Technical Opinions in the Media (Articles over 500 words; after 2010)

1. [Honolulu: Mega Rail Project in a Micro City](#), New Geography, July 5, 2011.
2. [DHHL and PUC Should be Cautious with Proposed Solar Power Plant on Oahu](#), Hawaii Reporter, July 26, 2011.
3. [Hawaiian Island Sustainability-An Insight into How We Rank Among Other Island Communities](#), Honolulu Weekly, April 18, 2012.
4. [Energy Challenge: Options for Power Generation and Hawaii's Path Forward](#), Honolulu Civil Beat, May 24, 2012.
5. [Is Honolulu Really No. 1 in Traffic Jams?](#) Honolulu Weekly, May 30, 2012.
6. [JONES ACT Hurts Hawaii \(Alaska, Guam and Puerto Rico too\)](#), Fix Oahu Blog, January 8, 2013 (Hawaii Reporter link is broken.)
7. [Energy from Trash Should Be a Priority for Hawaii](#), Honolulu Civil Beat, February 6, 2013.

8. [Honolulu Rail: A Textbook Case of Poor Planning, Denial and Diversion](#), Honolulu Civil Beat, March 15, 2013.
9. [Honolulu Rail Project Epitomizes Lapses of Elected Officials. Ten reasons not to like the \\$5 billion project](#), Honolulu Civil Beat, October 6, 2013.
10. The Next 100 MW Power Plant for Oahu, with Gabriel El-Swify. Abbreviated version was published in Pacific Business News, behind pay wall, with the title [Making the Case for Liquefied Natural Gas](#), November 2013. On the reading list at Stanford University, [PH241: Introduction to Nuclear Energy](#), Fall 2018.
11. Letter to Editor, Are Transportation Engineers Still Relevant? ITE Journal, March 2014.
12. [Sopogy's Demise is a Huge Victory for Honest Engineering and the Taxpayer](#), Hawaii Reporter, April 28th, 2014 (Author's note: Article No. 2 on this list was correct!)
13. [Driverless Cars. What's Really Possible?](#), LinkedIn, May 27 2014 (~1,500 views.)
14. [Quoted](#) extensively in [As the Nation Turns, Hawaii is Still Driven](#), Hawaii Business magazine, November 2014.
15. [Surprising Downward Trends](#), Honolulu Civil Beat, November 11, 2014.
16. [What Can We Do About the Rail? Nothing. Tackle Traffic Congestion!](#) Honolulu Civil Beat, February 4, 2015.
17. [Letter to the Honolulu City Council: Hoopili Doesn't Fit](#), Honolulu Civil Beat, March 2, 2015.
18. [\\$10 Billion: The Ultimate Price Tag for Honolulu Rail?](#), Honolulu Civil Beat, January 21, 2016.
19. [Live from Honolulu: HART Rail, A Megaproject Failure in the Making](#), New Geography, January 27, 2016.
20. [Kapolei: Oahu's Second City?](#) And [Kapolei Hale Turns 15](#), Honolulu Star Advertiser, February 8, 2016.
21. [How to Make the Best of Honolulu's Rail Fiasco](#), with Cliff Slater and Randy Roth, Island Voices, Honolulu Star Advertiser, June 29, 2016.
22. [Not Too Late to Make the Right Decision on Rail](#), with Randy Roth, Island Voices, Honolulu Star Advertiser, September 18, 2016.
23. [Honolulu Rail: From \\$4.6 B to \\$8.6 B In Eight Years. Now What?](#), with Cliff Slater and Randy Roth, New Geography, October 7, 2016.
24. [We Should Not Pay A Penny To The Federal Transit Administration](#), with Cliff Slater and Randy Roth, Honolulu Civil Beat, October 10, 2016.
25. [How your tax dollars are being wasted on a railway in Hawaii](#), FOX News, March 17, 2017.
26. [Rail will never be as practical as roadways](#), with Cliff Slater, Island Voices, Honolulu Star Advertiser, July 11, 2017. (Original title: [HART Rail: Local Cost 34 Times More than H-3](#))
27. Quoted extensively in [Honolulu's Rapid Transit Crisis](#), CITILAB, July 19, 2017.
28. Quoted extensively in [Honolulu's Potholes Are Costing Drivers — And Taxpayers — Millions](#), Honolulu Civil Beat, July 25, 2017.
29. [Rail Project Audit Needs to Be Comprehensive, Independent](#), with Cliff Slater and Randy Roth, Island Voices, Honolulu Star Advertiser, August 24, 2017.
30. [The Hard Reality of Honolulu Rail Costs](#), Honolulu Civil Beat, August 25, 2017.
31. ['Complete Streets' Just an Excuse for Government to Spend](#), Invited Commentary, Honolulu Star Advertiser, June 3, 2018.
32. [Hybrid Cars Do Well in Assessments of the Environmental Impact of Urban Vehicles](#), Scholars Strategy Network, posted on July 13, 2018.
33. Quoted in three *Honolulu Civil Beat* articles about traffic conditions in Honolulu: [Want Real Traffic Relief? Give Oahu's Students And Workers Flexible Hours](#) (Feb. 8, 2019), [How Many More Cars Can We Cram On Oahu?](#) (Feb. 1, 2019), and [What Would You Pay To Drive During Honolulu's Rush Hour?](#) (Jan. 9, 2019).
34. Assisted Wall Street Journal reporters with their research and was quoted in the headline and full page story [How a Train Through Paradise Turned Into a \\$9 Billion Debacle](#), WSJ, March 22, 2019.
35. [US Reliance On Mass Transit Explains A Big Part Of The Epidemic](#), Honolulu Civil Beat, April 16, 2020.

TV Production

Between 2011 and 2013 [produced 18 30-minute shows](#) on Hawaii's O'lelo public television titled "PANOS 2050: Solutions for a Sustainable Hawaii." Sample shows include the following:

- Technology and Technological Innovations
- Current Social and Economic Trends
- The Driverless Car
- The Next 100 MW Power Plant for Oahu
- Honolulu 1990 to 2010 Trends: What Do They Mean for the Next 20 Years?
- Local and International Threats to Hawaii's Sustainability

Blog

[Fix Oahu Blog](#) – "Civil Engineering Professor Panos D. Prevedouros, PhD presents his opinions on infrastructure issues with emphasis on the City and County of Honolulu" – since May 2006.

In January 2015 the blog contained 482 articles and had over 172,000 views.

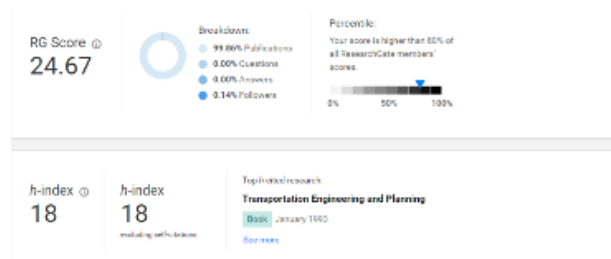
In January 2018 the blog contained 595 articles and had over 333,000 views.

In January 2020 the blog contained 629 articles and had over 427,000 views.

In March 2021 the blog contained 648 articles and had over 540,000 views.

Research Gate Scores

On March 8, 2021 – <https://www.researchgate.net/profile/P-D-Prevedouros/scores>



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