

Curriculum Vitae

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EDUCATIONAL BACKGROUND

B.Eng. (*with Distinction*), American University of Beirut, June 1964
M.S. in Civil Engineering, University of California, Berkeley, September 1967
Ph.D. in Civil Engineering, University of California, Berkeley, June 1969

ACADEMIC POSITIONS – University of California, Berkeley

1969-1971: Assistant Research Engineer, Institute of Transportation and Traffic Engineering
1971-1976: Assistant Professor of Civil Engineering
1976-1981: Associate Professor of Civil & Environmental Engineering
1981-1997: Professor of Civil & Environmental Engineering
1997-2011: E.G. Cahill & J.R. Cahill Professor of Civil & Environmental Engineering
2011-Date: *Cahill Professor of Civil Engineering Emeritus, & Professor of the Graduate School*
1983-1998: Director, Institute of Transportation Studies
1997-2002: Chairman, Department of Civil & Environmental Engineering
1996-2002: Founding Co-Director, National Center of Excellence for Aviation Operations Research

HONORS, AWARDS, and SPECIAL APPOINTMENTS

- U.S. – A.I.D. Fellowship, American University of Beirut, 1960-1964.
- "Distinction" Award, American University of Beirut, June 1964.
- Lebanese National Council for Scientific Research Fellowship, 1967-1969.
- Professor and Academic Director, Post Graduate Course in Transportation, University of the Andes, Merida, and Universidad Central, Caracas, Venezuela. 1973-1980.
- Honorary Member of the Faculty of Exact Sciences and Engineering, University of Rosario, Rosario, Argentina, 1981.
- Walter Huber Civil Engineering Research Prize - American Society of Civil Engineers, 1982.

- Certificate of Appreciation for Contribution to Aviation's Development in California, California Department of Transportation, Division of Aeronautics, 1984.
- Elected Fellow of the American Society of Civil Engineers, 1985.
- Robert Horonjeff Award, American Society of Civil Engineers, 1990
- The Herz Foundation Award, 1990
- Fellowship, Japan Society for the Promotion of Science, 1994.
- Endowed Chair: Edward G. & John R. Cahill Chair in Civil or Mineral Engineering, University of California at Berkeley. 1997.
- The Cosmos Club, Washington, D.C. Elected in 2001.
- The James Laurie Prize, American Society of Civil Engineers, 2000.
- National Academy of Engineering, Elected in 2002.
- Distinguished Engineering Alumnus Award, American University of Beirut, 2002.
- Chairman of the Transportation Research Board, National Research Council. 2009.
- Elected Lifetime Associate of the National Academies. 2008.
- Academy of Distinguished CEE Alumni UC Berkeley. Inducted to inaugural class, 2012, & Founding Member of the Board of Directors.

RESEARCH AREAS

- Development of Regional Transportation Planning Procedures
- Study of the Feasibility of Oceanic Air Traffic Control Systems
- Analysis of Demand Potentials for STOL Air Transport Technologies
- Demand Analysis for Short Haul Air Transportation Systems
- Demand Analysis for Long Haul Air Transportation
- Transportation Terminal Location in Urban Areas
- Transportation Planning Procedures for Developing Regions
- Choice of Transport Technologies for Developing Regions
- Relationships Between Development Strategies and Transport Requirements
- Development of Airport Systems Capacity Evaluation Methodologies
- Development of Airport Passenger Handling Systems
- Analysis of Demand and Supply Interaction in Short Haul Air Transport
- Long Haul Air Traffic Forecasting Methodologies
- Air Transportation Pricing and Policy Analysis
- Analysis of Operations of Off-Airport Passenger Terminals
- Analysis of Traffic, Capacity and Cost Characteristics of International Air Transport
- Development of Methodologies for National Transportation Planning
- Technology Assessment of Short Haul Aircraft
- Analysis of Short Haul Air Transport Network Structure
- Studies of the Feasibility of Off-Airport Passenger Terminals
- Airport Cost Allocation and Analysis

- Airfield Operations and Runway Occupancy Time Analysis
- National Transportation Planning
- Intercity Freight Mode Choice Analysis
- Transportation Economics, Value of Time
- Airline Economics, Network Structure and Airline Hubbing
- Energy and Safety Interactions in Transportation
- The Social Costs of Transportation
- The Economic Impacts of Regional Airports
- Airline Safety Studies
- Advanced Highway Technology
- Automobile Navigation and Route Guidance
- Economics of High-Speed Rail Transportation
- Intermodal Interface between High Speed Rail and Air Transportation
- Pricing and Information Technology in Urban Transportation
- Knowledge Representation & Expert System in Transportation Planning
- The Economics of Urban Traffic Information
- Infrastructure Pricing, Finance, and Privatization
- Maritime and Port Transport Economics
- Comparative Analysis of Full Costs of Intercity Transportation Systems
- Analysis of the Economic Cost of Externalities from Transportation Systems
- Internet access and transportation behavior
- Investment strategies for securing transportation networks
- Inter-modal Integration in regional transportation.
- Economics of Air Traffic Management
- Strategies for Inter-modal Transportation Planning
- Economic of Speed. High Speed Rail in intermodal transportation
- Incentives for collaborative commuting in urban transportation
- Value of time in intercity travel
- Economics of traffic information systems

PROFESSIONAL EXPERIENCE

- 1965: Traffic Planning Specialist, Lebanese Ministry of the Interior.
Development of Traffic Management Plans for the City of Beirut.
- 1965-66: Transportation Engineer, AB Vattenbyggnadsbyraon, Stockholm, Sweden.
Transportation planning and facility design.
- 1967-69: Transportation Analyst, San Francisco Bay Area Transportation Study
Commission (BATSC).
Urban Travel Demand Modeling.
- 1969: Consultant to Ostenfeld & Jonson, Copenhagen, Denmark.
Airport master plans for Copenhagen.
- 1970: Consultant to U.S. FAA, Washington, D.C.
Analysis of economic implications of aircraft noise alleviation measures.
- 1971: Consultant to ICAO, Montreal, Canada.
Statistical evaluation of airport operations and safety data.
- 1971: Consultant to Kivett & Myers, Kansas City.
Airport Master plans for Munich, Germany.
- 1972-83: Consultant to the Ministry of Public Works of Venezuela.
National Transportation planning. Airport Master Plans for Caracas Airport.
- 1972-76: Consultant to ADAR Corporation, Project Principal,
Sudan National Transportation Study.
- 1973-74: Consultant to Peat, Marwick, Mitchell & Co., San Francisco.
The development of airport capacity analysis methods and manuals.
- 1976-77: Consultant to Olson Laboratories. Airport traffic forecasting.
- 1977-78: Consultant to MIT Flight Transportation Laboratory.
Air travel demand Forecasting methods.
- 1977-78: Consultant to Ralph M. Parsons Company.
Design Review for Jeddah International Airport.
- 1978-83: Consultant to Government of Saudi Arabia.
Master planning and transportation developments for Riyadh Diplomatic Quarters.
- 1978: Consultant to Mexican Institute of Systems Planning and Operations, Mexico City. Air
traffic forecasting for Mexico City.
- 1978: Consultant to Port of Oakland.
Economic development of community impact assessment analysis methods.
- 1979: Consultant to DYTEC, Inc.
Traffic demand forecasting for Lincoln, Nebraska and Topeka, Kansas airports.
- 1979: Consultant to Stearns, Bostwick, and Tehin, San Francisco.
Airport geometric design standards and requirements.
- 1979: Consultant to UNESCO.
Transportation education developments, and on urban transportation planning in
developing countries.
- 1979: Consultant to United Nations Environmental Program.

Environmental impacts of transportation.

1979-80: Consultant to U.S. Congress-Office of Technology Assessment.
Low density air service market analysis.

1980: Consultant to Figuieredo-Ferraz, Sao Paulo, Brazil.
Master plan for the New International Airport of Sao Paulo at Campinas.

1980-90: Consultant to ICAO - Technical Assistance Program. Training in Civil Aviation.

1983-date: Advisor to the President of the Riyadh Development Authority, subsequently the Royal Commission for Riyadh Cit, Riyadh Saudi Arabia.

1983-84: Consultant to OECD, Paris, on the social costs of urban transportation.

1988-89: Consultant to World Bank on Highway Project Evaluation in Bangladesh.

1991-96: Advisor to the Minister of Municipal and Rural Affairs, Riyadh, Saudi Arabia.

1992-93 Consultant to Cutler and Stanfield. Airport Environmental Impact Assessment.

1995-96 Consultant to PADCO-REA. Urban Transportation Project Feasibility Analysis, Ho Chi Minh City, Vietnam.

1996-2001 Advisor to the Minister of Transport and Communications, Saudi Arabia.

1996-2001 Consultant to US-DOT, Technical Assistance to the Ministry of Communications of Saudi Arabia

1997-1999 Member of the Blue-Ribbon Advisory Council, San Francisco Bay Area Metropolitan Transportation Commission

2007-2018 Member of the International Advisory Board, Singapore Civil Aviation Department

2002-2018 Consultant to the City of El Segundo. Airport Environmental Impact Assessment

2002-2018 Consultant to Shute, Mihaly and Weinberger. Environmental Impact Assessment

PROFESSIONAL AFFILIATIONS

- Fellow, American Society of Civil Engineers.
- Transportation Research Board
- American Society for Engineering Education
- Lebanese Order of Engineers and Architects

American Society of Civil Engineers:

- Member, Executive Committee of the Air Transport Division of ASCE, 1976-1981.
- Chairman, ASCE Air Transport Division, 1978-1980.
- Served on numerous technical committees.

Transportation Research Board

- Special Committee on Aviation Activities (SCOO1), 1975-76.
- Other TRB Committees: Intermodal Transfer Facilities, Aviation Economics and Forecasting, Airport Capacity and Delay, Land-side Facilities,
- University of California Berkeley, Representative 2000-2011
- Executive Committee Member 2007-2011; Chairman 2010

Current Editorships and Editorial Boards

- Associate Editor, *Transportation Research A*. 1980-2006
- Associate Editor, *Transportation Planning and Technology*.
- Member Editorial Advisory Board, *Transportation Policy*.
- Member, Editorial Board, *IATSS Research*, International Association of Traffic and Safety Sciences. Tokyo, Japan.

LANGUAGES

English, Arabic, Swedish, Spanish, French, German

RESEARCH AND ACADMEIC PROGRAMS FOUNDED

- Founding member of Mobility 2000, the precursor the U.S. program in research on Intelligent Transportation Systems, ITS. 2000.
- Established California's PATH Research Program, a multi-million-dollar cooperative program of research between the University of California and the California Department of Transportation focusing on advanced technology research for transportation systems. 1986.
- Founding Director of NEXTOR, the National Center of Excellence in Aviation Operations Research, a cooperative research program between the University of California, the Federal Aviation Administration and four other partner universities. 1996.
- Founding Board of Directors of CITRIS, The Center for Information Technology Research in the Interest of Society, a California Institute of Science and Innovation based at the Berkeley Campus. 1999-2001.
- Founding Director of Postgraduate Program in Transportation at the University of Los Andes in Merida, Venezuela. A cooperative program between Berkeley and the Venezuelan Ministry of Transport. 1977-1983.

Ph.D. Dissertations Supervised

1. “Allocation of Travel Demand to Low Density Areas”
Peter Gymafi. 1970.
2. “An Analysis of Alternative Oceanic Air Traffic Control Systems”
George Coulouris. 1971.
3. “Operating Strategies for Public Transportation Systems”
Gerard Clarens. 1972
4. “Travel Choice in Short Haul Air Transportation”
Shing-Leung Fan. 1973.
5. “Strategies for Alleviating the Impact of Aircraft Noise.”
Abdullah Mogharrabi. 1973.
6. “Stochastic Models for Estimating the Number of Conflicts Perceived by an Air Traffic Controller”
William James Dunlay. 1974.
7. “The Choice of Transport Technology in Transport System Development”
Mohammed Alsheikh. 1975.
8. “The Impact of Travel Time Values on Intermodal Evaluation in Urban Transportation”
Hamed Mobarak. 1975.
9. “A Typological Study of Urban Travel Behavior”
Norbert Oppenheim. 1973.
10. “The Location of Off-airport Terminals”.
Michael Poulton. 1973.
11. “A Model of Trip Distribution over a Sparse Pattern of Attractors”
Edward Sullivan. 1971.
12. “Uncertainties in airport cost analysis and their effect on site selection. “
Tore Knudsen 1976.
13. “Cost Analysis of Inland Water Transportation Systems for Developing Countries”
Sergio de Vasconcellos. 1976.
14. “Cost Functions for Truck Operations in Urban Goods Movements”
Eric Mohr. 1977.

15. "Choice of Technology for Containerized Shipping: A Study of Interaction between Vessels and Ports "
Joanne Al Kazily. 1979.
16. "An Economic Framework for the Planning of Airport Passenger Terminals"
Geoffrey Gosling. 1979.
17. "Study of Delay at Air Carrier Airports"
Seyfollah Taghavi. 1980.
18. "A Behavioral Mode Choice Model Comparing air and truck freight transport" Hassan Hashemian. 1981.
19. "Demand and Supply Models of Air Travel in International Markets"
Redha Behbehani. 1982.
20. "Analysis of Air Network Structure: The hubbing phenomenon"
Atef Ghobrial. 1983.
21. "Regional Economic Impacts of Major Transportation Alternatives"
Hector Maldonado-Lira. 1983.
22. "Design and Analysis of Parking Pricing Schemes at Urban Traffic Centers" Lawrence Wu-Wang Lan. 1986.
23. "Terrain Representation for Estimating Land Transportation Costs in Corridor Planning"
Juan-Manuel Gamacho. 1987.
24. "A Model of Airline Hub Competition"
Mark Hansen. 1988
25. "Airline Safety Posture: A Study of aircraft maintenance related Indicators" Shashi Sathishan. 1989
26. "Airport Choice: An Empirical Study of the Determinants of Demand for Local Air Service"
Mahmoud Abbas. 1990
27. "Near Mid-air Collision as an Indicator of General Aviation Collision Risk"
Paul Shuch. 1990
28. "Technical Choices and Economic Trade-offs in Highway Design"
Jianfei Zhang. 1990.
29. "The Role of Advanced Traveler Information Systems in Incident Management" Haitham Al Deek. 1991.
30. "Interaction Between Congestion Pricing and Advanced Traveler Information Systems"

Jae-Choon Lee. 1991.

31. "State versus Nongovernmental Organization Management of Transportation Resources: A comparison of rural development projects."

Sylvan Jolibois. 1993.

32. "An analysis of the effectiveness of high occupancy vehicle lanes"

Joy Dahlgren. 1994.

33. "The Development of Cost-Schedule Decision Support and Control System for Airport Renovation"

Manar Shami. 1995

34. "A Model of Port Selection by Maritime Carriers"

Mathew Malchow – 2001

35. "Airline Schedule Recovery After Disturbance – A Multi-level Decision Approach"

Alex Huang – 2002.

36. "A Study of the Equity Implications of Ramp Metering"

Hamed Benouar – 2003

37. "Two-Wheelers in China – Analysis of Environmental, Safety and Energy Impacts" Christopher Cherry - 2007.

38. "New Vehicle Choice, Fuel Economy and Vehicle Incentives an Analysis of Hybrid Tax Credits and the Gasoline Tax" - Elliot Martin. 2009.

39. "Taxing for Takeoff – Estimating the Effect of Aviation Taxes Through Natural Experiments" - C. Edward Huang. 2009.

40. "Vehicle Ownership and Choice in India", Ipsita Banerjee. 2011.

41. "The Value of Time in Travel Demand and Choice - A Study of Thresholds and Discontinuities" – Rui Wang. 2013.

UNIVERSITY SERVICE

Academic Senate Committee Service:

System-wide:

- Coordinating Council on Graduate Affairs (CCGA): member 1991-92.
- Representative Assembly 1996- 1998

Berkeley Division:

- Graduate Council: Member 1989-92; Vice Chair 1991-92.
- Administrative Committee of the Graduate Council: 1990-92.
- Committee on Academic Planning and Resource Allocation (CAPRA): member 1995-1999.
- BIR: Five Ad-Hoc Review Committees, 1990-1996.
- Faculty Representative to the Board of Trustees of the UC Berkeley Foundation. 2004-2007

PUBLIC SERVICE

- *Federal Aviation Administration*
Industry Task Force on Airport Capacity Enhancement and Delay Reduction. 1984-88
- *National Academy of Science- National Research Council Committees:*
Air Passenger Service and Safety since Deregulation, 1992
Long Term Airport Capacity 1986
Airport Land-side Capacity 1989
National Cooperative Airport Research Program Study Committee, 2002
Freight Funding Policy Study Committee. 2007-2008
Transportation Research Board, Executive Committee, 2002-date. Vice Chair 2008. Chair 2009.
Research Program to Mitigate Green House Gases and to Conserve Energy. NRC Study Committee. 2009.
- *American Academy of Arts and Science*
Study Committee on the Future of the Automobile in Urban Transportation. 1994.
- *Metropolitan Transportation Commission, (MTC) Oakland, CA.*
Advisory Council, 1997-2002
- *California Department of Transportation:*
Policy Advisory Committee in the California Transportation Plan Performance Measures Report.
- *American University of Beirut:*
CEE Dept. International Advisory Board. 2006-2010
- *Arriyadh Development Authority,*
Advisory Committee, (Chair) 1978-1991.
Advisor to the President. 1991-date
- *KAIST. Korea. Advisory Board of Civil and Environmental Engineering. Spring 2010.*

Adib Kanafani
BIBLIOGRAPHY

Archival Journals

- Kanafani, A., "A Nomogramme for Highway Vertical Curve Problems," *Review of Engineering*, the American University of Beirut, June 1964, Vol. 2, No. 2, pp. 41-42.
- Kanafani, A., "Gatutrafikundersokning for Ras-Beirut," *Journal of the Swedish Road Federation*, Svenska Vagforeningens Tidskrift, May 1966, Vol. 53, No. 4, pp. 164-166 (in Swedish).
- Kanafani, A., "An Aggregative Model of Trip Making," *Transportation Research*, 1972, Vol. 6, No. 2, pp. 119-124.
- Kanafani, A., "A Demand Model for Recreational Travel," *Transportation Planning and Technology*, 1972, Vol. 1, No. 2, pp. 89-99.
- Kanafani, A., E.C. Sullivan and R.D. Layton, "Transportation Analysis Techniques for National Forest Planning," *Highway Research Record*, 1972, No. 408, pp. 17-25.
- Kanafani, A., "National Forest Travel Survey," *Highway Research Record*, 1972, No. 408, pp. 26-37.
- Kanafani, A., "Location Model for Parking Facilities," *ASCE Journal of Transportation Engineering*, February 1972, Vol. 98, No. TE1, pp. 117-129.
- Kanafani, A., "Location Models for Off-Airport Terminals," *Transportation Research*, 1972, Vol. 6, No. 4, pp. 371-379.
- Kanafani, A. and S.L.M. Hockaday, "Developments in Airport Capacity Analysis," *Transportation Research*, 1974, Vol. 8, No. 3, pp. 171-180.
- Kanafani, A. and S.L. Fan, "Estimating the Demand for Short Haul Air Transportation Systems," *Transportation Research Record*, 1974, No. 526, pp. 1-15.
- Kanafani, A. and A. Mogharabi, "Strategies for Alleviating the Impact of Aircraft Noise," *ASCE Journal of Transportation Engineering*, November 1975, Vol. 101, No. TE4, pp. 657-668.
- Kanafani, A. and M.C. Poulton, "The Application of Location Models of Off-Airport Terminals," *Transportation Science*, 1975, Vol. 9, No. 3, pp. 224-247.
- Kanafani, A. and E. Sadoulet, "Partitioning of Long Haul Air Traffic - A Study in Multinomial Choice," *Transportation Research*, February 1977, Vol. 11, No. 1, pp. 1-8.

- Kanafani, A., "Transportation and Regional Development," *The Analysis of Regional Structure: Essays in Honour of August Losch*, 1977, Vol. II, Pion, London.
- Kanafani, A. and H. Mobarak, "On the Use of the Value of Time in Transportation Project Evaluation," *ASCE Journal of Transportation Engineering*, March 1978, Vol. 104, TE02, pp. 123-130.
- Kanafani, A., R. de Neufville, Sergio Zuniga and Antonio Olivera, "Forecasting Airport Traffic: Mexico City as a Case Study," *Transportation Research Record*, 1979, No. 732, pp. 24-29.
- Kanafani, A. and H.S. Yuan, "Cost Forecasting for International Airline Operations," *Transportation Research Record*, June 1979, No. 732. pp. 15-24.
- Kanafani, A. and R. Behbehani, "Demand Analysis for International Air Travel," *Transportation Research Record*, June 1979, No. 732, pp. 5-14.
- Kanafani, A., "Price Elasticities of the Demand for Non-Business Air Travel," *ASCE Journal of Transportation Engineering*, 1980, Vol. 106, No. TE2, pp. 217-225.
- Kanafani, A., "Opciones Para el Desarrollo del Transporte Urbano," *presented at the IV Congreso Nacional de Ingenieros Javerianos, Cali, Columbia, July 1979, published in Urbana*, 1980, Vol. 1, No. 4.
- Kanafani, A., "Aircraft Technology and Network Structures in Short Haul Air Transportation," *Transportation Research*, 1981, Vol. 15A, No. 1.
- Kanafani, A. and A. Ghobrial, "Aircraft Evaluation in Air Network Planning," *ASCE Journal of Transportation Engineering*, May 1982, Vol. 108, No. TE3, pp. 282-300.
- Kanafani, A., "Operational Procedures to Increase Runway Capacity," *ASCE Journal of Transportation Engineering*, May 1983, Vol. 109, TE6, pp. 414-424.
- Kanafani, A., "On the Energy Requirements of Public Transportation Technologies," *Transportation Planning and Technology*, 1984, Vol. 10, No. 3.
- Kanafani, A. and A. Ghobrial, "Airline Hubbing, Some Implications for Airport Economics," *Transportation Research*, 1985, Vol. 18A, No. 4.
- Kanafani, A., "The Analysis of Hazards and the Hazards of Analysis - Reflections on Air Traffic Safety Management," *Accident Analysis and Prevention*, 1986, Vol. 18, No. 5, pp. 403-416.
- Kanafani, A. and M. Abbas, "Local Air Service and the Economic Impact of Small Airports," *ASCE Journal of Transportation Engineering*, Jan. 1987, Vol. 113, No. 1, pp. 42-55.

- Kanafani, A. and L. Lan, "Development of Pricing Strategies for Airport Parking," *Revista Internazionale di Economia di Transporte*, Feb. 1988, Vol. 15, No. 1, pp. 55-76.
- Kanafani, A. and T. Keeler, "Airline Deregulation and Safety," *ITS Review*, May 1988, Vol. 11, No. 3.
- Kanafani, A. and M. Hansen, "International Airline Hubbing in a Competitive Environment," *Transportation Planning and Technology*, 1988, Vol. 13, pp. 3-18.
- Kanafani, A. and T. Keeler, "New Entrants and Safety," in *Transportation Safety in An Age of Deregulation* by L. N. Moses and I. Savage, Oxford University Press, 1989, pp. 115-128.
- Kanafani, A. and T. Keeler, "Air Deregulation and Safety - Some Econometric Evidence from Time Series," ITS Working Paper, UCB-ITS-WP-89-2, May 1989, 12 pp; also in *Logistics and Transportation Review*, Sept. 1990, Vol. 26, No. 3, pp. 203-209.
- Kanafani, A. and M. Hansen, "Hubbing and Airline Costs," *ASCE Journal of Transportation Engineering*, Nov. 1989, Vol. 115, No. 6, pp. 581-590.
- Kanafani, A., T. Keeler and S. Sathisan, "Analysis of Airline and Aircraft Safety Posture Using Service Difficulty Reports," Transportation Research Board, *Transportation Research Record 1214*, Nov. 1989.
- Kanafani, A. and M. Hansen, "Airline Hubbing and Airport Economics in the Pacific Market," *Transportation Research*, May 1990, Vol. 24A, No. 3.
- Kanafani A. and T. Keeler, "Air Deregulation and Safety: Some Econometric Evidence from Time Series," *The Logistics and Transportation Review*, September 1990, Vol. 26, No. 3, p. 203-207.
- Kanafani A. and H. Al-Deek, "A Simple Model of Route Guidance Benefits," *Transportation Research B*, August 1991, Vol. 25B, No. 4, pp. 191-201.
- Kanafani, A., A. Ghobrial and N. Balakrishnan, "A Heuristic Model for Frequency Planning and Aircraft Routing in Small Size Airlines," *Transportation Planning and Technology*, August 1992, Vol. 16, No. 4, pp. 235-249.
- Kanafani, A., T. Keeler and S. Sathisan, "Airline Safety Posture: Evidence from Service-Difficulty Reports," *ASCE Journal of Transportation Engineering*, July/August 1993, Vol. 119, No. 4, pp. 655-664.
- Kanafani A., and L. Lan, "The Economics of Park-and-Shop Discounts - A Case Study of Bundled Price Strategy," *Journal of Transport Economics and Policy*, September 1993, Vol. 26, pp. 291-303.

- Kanafani A., and H. Al-Deek, "Modeling the Benefits of Advanced Traveler Information Systems in Corridors with Incidents," *Transportation Research-C*, December 1993, Vol. 1, No. 4, pp. 303-324.
- Kanafani A. and W. Youssef, "High Speed Rail in California?" *ITS Review*, Nov. 1993/Feb. 1994, pp. 3-4.
- Kanafani, A., A. Khattak and E. Le Colletter, "Stated and Reported Route Diversion Behavior: Implications of Benefits of Advanced Traveler Information System," *Transportation Research Record*, March 1994, No. 1464, pp. 28-35.
- Kanafani, A., "No Rush to Catch the Train," *Access*, 1994, Vol. 4, pp. 8-14.
- Kanafani, A., A. Khattak and J. Dahlgren, "A Planning Methodology for Intelligent Urban Transportation Systems," *Transportation Research-C*, 1994, Vol. 2, No. 4, pp. 197-215.
- Kanafani, A., N. Vlahos, A. Khattak and M. Manheim, "The Role of Teamwork in a Planning Methodology for Intelligent Urban Transportation Systems," *Transportation Research-C*, 1994, Vol. 2, No. 4, p. 217-229.
- Kanafani, A. and A. Ghobrial, "Future of Airline Hubbed Networks: Some Policy Implications," *ASCE Journal of Transportation Engineering*, March/April 1995, Vol. 121, No. 2, pp. 124-134
- Kanafani, A. and A. Ghobrial, "Quality-of-Service Model of Intercity Air-Travel Demand," *ASCE Journal of Transportation Engineering*, March/April 1995, Vol. 121, No. 2, pp. 135-140.
- Kanafani, A., "Air-Transportation - Opportunities for Intermodalsim in the ITS Era," *ITS Intermodal News*, Fall 1995, pp. 4-7.
- Khattak, A. and A. Kanafani, "Case Base Reasoning: A Planning Tool for Intelligent Transportation Systems," *Transportation Research - C*, 1996, Vol. 4, No. 5, pp. 267-288.
- Khattak, A. and A. Kanafani, "PLANiTS: Structuring and Supporting the Intelligent Transportation Systems Planning Process," *Transportation Research Record*, April 1997, Vol. 1588, pp. 32-40.
- Levinson, D., J.M. Mathieu, D. Gillen and A. Kanafani, "The Full Cost of High-Speed Rail: An Engineering Approach," *The Annals of Regional Science*, June 1997, Vol. 31, No. 2, pp. 189-215.
- Cao, J.-M. and A. Kanafani, "Real-Time Decision Support for Integration of Airline Flight Cancellations and Delays, Part I: Mathematical Formulation," *Transportation Planning and Technology*, 1997, Vol. 20, No. 3, pp. 183-199.

- Cao, J.-M. and A. Kanafani, "Real Time Decision Support for Integration of Airline Flight Cancellations and Delays, Part II: Algorithm and Computational Experiments," *Transportation Planning and Technology*, 1997, Vol. 20, No. 3, pp. 201-217.
- Kanafani, A., "Balancing Act: Traveling in the California Corridor," *ACCESS*, Fall 1997, No. 11, pp. 16-21.
- Shami, M. and A. Kanafani, "Coping with Construction in Operational Airports: SFIA Case Study," *ASCE Journal of Transportation Engineering*, November/December 1997, Vol. 123, No. 6, pp. 417-428.
- Levinson, D., D. Gillen and A. Kanafani, "The Social Costs of Intercity Transportation: A Review and Comparison of Air and Highway," *Transport Reviews*, 1998, Vol. 18, No. 3, pp. 215-240.
- Levinson, D., A. Kanafani and D. Gillen, "Air, High-Speed Rail, or Highway: A Cost Comparison in the California Corridor," *Transportation Quarterly*, Winter 1999, Vol. 53, No. 1, pp. 123-131.
- Cao, J.-M. and A. Kanafani, "The Value of Runway Time Slots for Airlines," *European Journal of Operations Research*, Nov. 2000, Vol. 126, pp. 491-500. Derived from nonref-report no. 77.
- Malchow, M. and A. Kanafani, "A Disaggregate Analysis of Factors Influencing Port Selection," *Maritime Policy and Management*, 2001, Vol. 28, No. 3, pp. 265-277.
- Malchow, M. B. and A. Kanafani, "A Disaggregate Analysis of Port Selection," *Transportation Research Part E: Logistics and Transportation Review*, July 2004, Vol. 40, No. 4, pp.317-337.
- Huang, C.E. and A. Kanafani: "Cost and Efficiency of U.S. En-route Air traffic Services", *Transportation Research Record*, 2010. In Press.
- "Multimodal Transportation in California – Connecting Planes, Trains, and Automobiles" *Access*, 2, Summer 2009
- Yetiskul, E. and A. Kanafani: "How the Presence of Low-cost Carriers Influences Affects Scheduling Differentiation", *Journal of Air Transport Management*, 16 (2010) pp. 7-11.
- Huang, C.E. and A. Kanafani "Taxing for Takeoff: Estimating Airport Tax Incidence through Natural Experiments", *Journal of Public Economics*, 2010.
- Huang J. and A. Kanafani "Securing Linked Transportation Systems: Economic Implications and Investment Strategies" *Journal of Transportation Security*, Vol.. 3 no. 4 Dec. 2010. pp. 257-274.

Kanafani, A., R. Wang, & A. Griffith: "The Economics of Speed – Assessing the performance of High Speed Rail in Intermodal Transportation", *SCRIPTA-Social and Behavioral Science*. v. 42. 2012. pp. 692-708.

Banerjee, I., A. Kanafani, & J. Walker: "Car ownership in an Indian City", *Transportation Research Record, TRR 2342*. 2012.

Xuan, Y. andn A. Kanafani: "Empirical Evaluation of Drivers' Response to Accident Information on Freeway Changeable Message Signs: A Comparison of Methodologies" *Transportation Research-C*. 2014.

"Cost and Efficiency of U.S. En-route Air traffic Services" (with: C.E. Huang), *Transportation Research Record*, 2010. In Press.

Refereed Conference Proceedings and Symposium Proceedings

- Kanafani, A., "On the Optimal Location of Off-Airport Passenger Terminals," *Proceedings, International Symposium on Airport Location Methodology*, London, March 1971, pp. 22.
- Kanafani, A., "The Role of Transportation in Industrial Development," *Proceedings, Industrial Development Center of the Arab States Conference on the Development of Manpower in Industry*, Bludan, Syria, July 1971, pp. 36.
- Kanafani, A., "A Model of Transportation and Regional Development in Underdeveloped Areas," *Proceedings, Second Advanced Studies Institute in Regional Science*, Karlsruhe, August 1972, pp. 15.
- Kanafani, A., "Transportation Systems for Developing Regions," *Proceedings, IFAC/IFORS Conference on Systems Approaches to Developing Nations*, Algiers, 1973, pp. 1-9.
- Kanafani, A., C. Orman, D. Couvalt, G. Jones and G. Dunkin, "The Status of Short Haul Air Transportation," *Proceedings, Airports, American Society of Civil Engineers*, 1973, pp. 107-130.
- Kanafani A. and D. Sperling, "Transportation and the Environment," *Proceedings, Institute of Transportation Studies*, Berkeley, Working Paper, UCB-ITS-WP-79-15, 1979, 33 p.
- Kanafani, A., "The Role of Analysis in Investment Choices for Urban Transportation in Developing Countries," *Proceedings, Institute of Transportation Studies*, Berkeley, Working Paper, UCB-ITS-WP-80-2, April 1980.
- Kanafani, A., "A Perspective on Recent Development in American Airports," Institute of Transportation Studies, Berkeley, Working Paper, *Proceedings, International Symposium on Airport Planning and Development*, Singapore, January 1982, pp. 24.
- Kanafani, A., "The Social Costs of Road Transport - A Review of Road Traffic Noise, Air Pollution, and Accident," *Proceedings, Organization for Economic Cooperation and Development*, Environmental, TE/84.3, December 1983, pp. 38.
- Kanafani A. and T. Keeler, "New Entrants and Safety: Some Statistical Evidence on the Effects of Airline Deregulation," *Proceedings, Northwestern Conference on Deregulation and Safety*, Dec. 1987, pp. 38.
- Kanafani A. and M. Hansen, "International Airline Hubbing in a Competitive Environment," *Proceedings of the Mini-Euro Conference on Operations Research in Transportation Systems*, Herceg-Novi, Yugoslavia, June 1987, pp. 24.

- Kanafani, A., "A Strategic Perspective on Aviation Planning," *Proceedings, New Technology and the Aviation System Conference*, Los Angeles, CA, ITS UCB P 89-1, July 1989, pp. 168-180.
- Kanafani A. and R.E. Parsons, "Program on Advanced Technology for the Highway: Vehicle/Highway Research and Development," *Proceedings, Vehicle Navigation and Information Systems Conference*, Toronto, September 1989, pp. 270-272 (ISSN-0843-932X).
- Kanafani A. and H. Al-Deek, "Incident Management with Advanced Traveller Information Systems," *Proceedings, 2nd Vehicle Navigation and Information Systems Conference*, Dearborn, Michigan, 1991, pp. 563-576.
- Kanafani A. and H. Al-Deek, "Recent Findings on the Benefits of Route Guidance," *Proceedings, The 6th World Conference on Transport Research*, Lyon, France, July 1992, pp. 12.
- Kanafani A. and A. Khattak, "Case Based Reasoning: A Planning Tool for Intelligent Transportation Systems," *Proceedings, 7th World Conference on Transportation Research*, WCTR Sydney, Australia, July 1995.
- Kanafani A. and M. Shami, "A Decision Support System for Minimizing the Disturbance of Airfield Construction (SFIA Case Study)," *Proceedings, Rebuilding Inner City Airports, Proceedings of the International Air Transportation Conference*, ASCE, June 1996, pp. 234-245.
- Kanafani, A., "Policy Issues in the Development of an International Hub Airport," *Proceedings, Air Hub Development Seminar: Challenges and Strategies of a Modern Airport*, Civil Aviation Administration, Taipei, Taiwan, R.O.C., August 1996, pp. 18-38.
- Chan, E., A. Kanafani and T. Canetti, "Financing Intercity Transportation: A Comparative Analysis of Costs and Cost Recovery for Air, Highway, and High Speed Rail Systems in California," *Proceedings, Transportation Research Board 25th Annual Meeting*, Pre-print # 0803, January 1998, pp. 16.
- Malchow, M. and A. Kanafani, "Some Aspects of the Market for Broadcast Traffic Information," *Proceedings, 8th World Congress on Transportation Research*, Anthwerp, July 1998.
- Chan, S., M. Malchow and A. Kanafani, "The Market for Traffic Information - A Study of Industry Structure and Prospects," *Proceedings, Transportation Research Board 26th Annual Meeting*, Washington, D.C., January 1999, pp. 18.
- Huang, A. and A. Kanafani, "Airline Scheduling Recovery Following Disturbances," *Proceedings, IEEE INFORMS Conference*, Philadelphia, Nov. 1999.

- Kanafani, A., "High Speed Rail - Options for California," *Proceedings, Transportation and Public Policy Symposium*, Lake Arrowhead, October 1999.
- Lago, A. and A. Kanafani, "The Scheduling of Ports of Call For Vessels," *Proceedings, Maritime Industry into the Millennium - The Interaction of Theory and Practice*, IAME Conference, Naples, Italy, September 2000.
- Malchow, M. and A. Kanafani, "A Disaggregate Analysis of Factors Affecting a Port's Attractiveness," *Maritime Industry in the Millennium - The Interaction of Theory and Practice*, IAME Conference, Naples, Italy, Sept. 2000.
- Huang, A.S.C. and A. Kanafani, "Airline Scheduling Recovery After Disturbance – A Decision Oriented Approach," *Proceedings, APORS 2000, Asia Pacific Operations Research Societies Conference*, Singapore, Oct. 2000.
- Kanafani, A., "Strategies for Integrating Land Use and Transportation Planning," *Proceedings, Riding into the Future: Boosting Public Transportation Systems in Arriyadh, Proceedings of the Arriydh Development Authority Conference*, Riyadh, Saudi Arabia, October 2000.
- Kanafani, A., "Operational Procedures to Increase Runway Capacity," *Proceedings, Third Annual Nextor Symposium, Federal Aviation Administration*, Washington, Nov. 2000.
- Kanafani, A., "New Paradigms in Maritime Transportation - The Evolving Role of Ports," *Proceedings, The 2nd Berkeley-Tottori Joint Seminar on Evolutionary Processes of Transportation Systems*, Tottori, Japan, July 2001.
- Aweiss, A. and A. Kanafani, "Airport Privitization and its Effects on Efficiency," *TRB Annual Meeting*, July 2004, 17 pp.
(Contribution: 70%)
- Benouar, H. and A. Kanafani, "Freeway Ramp Metering Equity and Efficiency Tradeoffs," *10th World Conference on Transportation Research*, August 2004, 20 pp.
- Kanafani, A., M. Ohsfeldt and W. Dunlay, "Comprehensive Economic Evaluation of Large Scale Transportation Investments Seeking Consensus through Pareto Efficiency," *10th World Conference on Transportation Research*, August 2004, 17 pp.
(Contribution: 60%)
- Aweiss, A. and A. Kanafani, "The BART-SFO Extension – Early Findings and Some Tentative Conclusions," *TRAB Annual Meeting 2006*, July 2005, 22 pp.
(Contribution: 75%)

Takebayashi, M. and A. Kanafani, "A Bi-level Model of Airline Network Competition," *Kobe Symposium on Global Competition in Transportation*, July 2005.

(Contribution: 40%)

Banerjee, I. and A. Kanafani, "The Value of Wireless Internet Connection on Trains: Implication for Mode-Choice Models," *The Expanding Sphere of Travel Behaviour Research, 11th International Conference on Travel Behaviour Research, Kyoto*, August 2006, 13 pp.

Aweiss, A. and A. Kanafani, "Airport Privatization and Its Effect on Efficiency," *TRB Annual Meeting*, August 2006, 17 pp.

(Contribution: 75%)

Banerjee, I. and A. Kanafani, "The Value of Wireless Internet Connection on Trains: Implication for Mode-Choice Models," *UCTC*, October 2006, 6 pp.

Huang, C. E., and A. Kanafani, "Cost and Efficiency of US En-route Traffic Control," *Transportation Research Board Annual Meeting*, January 2008, 8 pp.

Non-Refereed Publications

Technical Reports

Kanafani, A., *The Location of Parking Facilities in Town Centers*, Institute of Transportation and Traffic Engineering, Dissertation Series, University of California, Berkeley, 1969, pp. 150.

Kanafani, A. and E.C. Sullivan, *Base Year Travel Patterns Accuracy Checks*, Bay Area Transportation Study Commission, Technical Report, November 1969, pp. 37.

Kanafani, A. and H.E. Keller, *On the Sensitivity Analysis of Input-Output Studies*, Institute of Transportation and Traffic Engineering, Staff Paper, 1970, pp. 13.

Kanafani, A., E.C. Sullivan and R.D. Layton, *Transportation Analysis Procedures for National Forest Planning - A Process Overview*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, 1971, pp. 25.

Kanafani, A., E.C. Sullivan and R.D. Layton, *Transportation Planning Procedures for National Forest Planning - Project Report*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, June 1971, pp. 108.

Kanafani, A., R. Horenjeff and G. Colouris, *An Analysis of Alternative Oceanic Air Traffic Control Systems*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, November 1971, pp. 187.

- Kanafani, A., R. Horenjeff, S.L. Fan and A. Mogharabi, *Forecasting the Demand Potential for STOL Air Transportation*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, NASA CR 114572, 1973, pp. 120.
- Kanafani, A., W.J. Dunlay and R. Horenjeff, *Models for Estimating the Number of Conflicts Perceived by Air Traffic Controllers*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, December 1973, pp. 138.
- Kanafani, A., E. Sadoulet and E.C. Sullivan, *Demand Analysis for North Atlantic Air Travel*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, 1974, pp. 120.
- Kanafani, A. and T. Knudsen, *Definition and Measurement of Accessibility in Urban Areas*, Institute of Transportation and Traffic Engineering, Berkeley, 1974, Research Report No. 54, pp. 38.
- Kanafani, A., E. Sadoulet and G. Gosling, *Air Travel Forecasting - The Case of North Atlantic Non-Business Traffic*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, September 1975, pp. 89.
- Kanafani, A. and S. Taghavi, *An Analysis of Short Haul Airline Operating Costs*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, October 1975, pp. 86.
- Kanafani, A., G. Gosling and S. Taghavi, *Studies in the Demand for Short Haul Air Transportation*, Institute of Transportation and Traffic Engineering, Berkeley, Special Report, October 1975, pp. 56.
- Kanafani, A., G. Gosling and E. Sadoulet, *A Program for the Development and Evaluation of Pricing Systems in Air Transportation*, Institute of Transportation Studies, Berkeley, Special Report, March 1976.
- Kanafani, A. and E.C. Spry, *Policy Applications of Research on the Development and Evaluation of Air Fares in the North Atlantic*, paper presented at the World Conference on Transport Research, Rotterdam, April 1977.
- Kanafani, A. and H.S. Yuan, *An Investigation of Short Haul Air Transportation in the Southeastern United States*, Institute of Transportation Studies, Berkeley, Research Report, July 1977.
- Kanafani, A., G. Gosling and others, *Off-Airport Passenger Terminals*, Institute of Transportation Studies, Berkeley, Research Report, November 1977.
- Kanafani, A., R. Behbehani and H.S. Yuan, *Integrated Forecasting Process for International Air Transportation*, Institute of Transportation Studies, Berkeley, Working Paper, UCB-ITS-WP-78-6, September 1978, pp. 26. Kanafani, A., H.S. Yuan and R. Behbehani, *Integrated*

Forecasting in International Air Transportation, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-79-1, March 1979, pp. 82. Kanafani, A. and P. Chang, *A Systems Analysis of Short Haul Air Transportation*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-79-9, May 1979, pp. 88. Kanafani, A., *Off-Airport Passenger Terminals*, Institute of Transportation Studies, Berkeley, Staff Paper, May 1979.

- Kanafani, A., D. Sperling and B. Houel, *A Methodology for National Transportation Planning*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-79-7, June 1979, pp. 167.
- Kanafani, A. and H.S. Yuan, *Comparative Evaluation of Traffic Forecasting Models for State Aviation System Planning*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-79-11, August 1979, pp. 28.
- Kanafani, A., *The Determinants of Low Density Air Travel Market Size*, paper prepared for the Office of Technology Assessment, U.S. Congress, September 1979, pp. 66.
- Kanafani, A. and P. Chang, *A Systems Analysis of Short Haul Air Transportation - Appendix Documentation of Program SHANNT*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-79-15, September 1979, pp. 20.
- Kanafani, A. and R. Behbehani, *Studies of the Demand for International Air Transportation*, Institute of Transportation Studies, Berkeley, Working Paper, UCB-ITS-WP-80-5, 1980, pp. 30.
- Kanafani, A. and B. Chadhuri, *A Framework for the Allocation of Airport Costs*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-80-9, August 1980, pp. 108.
- Kanafani, A. and A. Ghobrial, *Aircraft Productivity in Short Haul Networks*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-80-11, September 1980, p 103.
- Kanafani, A. and A. Ghobrial, *NOFA - A Program for Frequency Planning in Short Haul Air Networks*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-80-12, November 1980, pp. 40.
- Kanafani, A. and A. Ghobrial, *NOFACA: A Program for Aircraft Assignment and Optimal Frequency Planning*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-80-17, 1980.
- Kanafani, A., *The Consistency of Traffic Forecasts for Airport Master Planning*, Institute of Transportation Studies, Berkeley, Working Paper, UCB-ITS-WP-81-2, 1981, pp. 18.
- Kanafani, A., G. Gosling and S. Hockaday, *Measures to Increase Airfield Capacity by Changing Aircraft Runway Occupancy Time Characteristics*, Institute of Transportation Studies, Berkeley, Research Report, UCB-ITS-RR-81-7, December 1981, pp. 211.
- Kanafani, A., G. Gosling, S. Hockaday, L. Money and B. Tritel, *A Research Agenda for Air Transportation*, Institute of Transportation Studies, Berkeley, Working Paper, UCB-ITS-WP-82-3, 1982, pp. 22.

- Kanafani, A., *Exploratory Study of the Interaction Between Energy Consumption and Road Traffic Safety in Interurban Transport*, Institute of Transportation Studies, Berkeley, Working Paper, UCB-ITS-WP-83-10, August 1983, pp. 23.
- Kanafani, A., *The Analysis of Hazards and the Hazards of Analysis - Reflections on Air Traffic Safety Management*, Institute of Transportation Studies, Berkeley, Working Paper, UCB-ITS-WP-84-1, February 1984, pp. 33.
- Kanafani, A., *Methodology for Mode Selection in Corridor Analysis of Freight Transportation*, Institute of Transportation Studies, Berkeley, Working Paper, UCB-ITS-WP-84-6, September 1984, pp. 26.
- Kanafani, A. and A. Ghobrial, *An Equilibrium Model of Airline Networks*, Institute of Transportation Studies, Working Paper, UCB-ITS-WP-84- October 1984, pp. 17.
- Kanafani, A. and M. Abbas, *On the Economic Impact of Regional Airports - Some Empirical Evidence*, Institute of Transportation Studies, Working Paper, UCB-ITS-WP-84- 1984.
- Kanafani, A. and M. Hansen, *Hubbing and Airline Costs*, Institute of Transportation Studies, Working Paper, UCB-ITS-WP-12, 1985.
- Kanafani, A., *Airport Fog Dispersal: A Comparison of Available Methods*, Institute of Transportation Studies, Working Paper UCB-ITS-WP-86-1, Feb. 1986, pp. 11.
- Kanafani, A., M. Hansen and M. Bayalis, *Airline Hubbing and Re-Hubbing at US International Gateways*, Institute of Transportation Studies Research Report, UCB-ITS-RR-87-7, Jan 1987, pp. 95.
- Kanafani, A., *Airline Safety After Deregulation*, Institute of Transportation Studies Working Paper, UCB-ITS-WP-87-7, June 1987, pp. 32.
- Kanafani, A., E. Sullivan, J. Gaviria, J. McCray-Goldsmith and S. Stadfeld, *Transportation and Economic Development of Coastal Regions in the Pacific Northwest: Review of Existing Conditions*, Institute of Transportation Studies Working Paper, UCB-ITS-WP-87-11, Oct. 1987, pp. 185.
- Kanafani, A., *A Preliminary Technology Assessment of Automobile Navigation*, Institute of Transportation Studies Working Paper, UCB-ITS-WP-87- December 1987.
- Kanafani, A., E.C. Sullivan and others, *Transportation and Economic Development of Coastal Regions in the Pacific Northwest: Analysis and Findings*, ITS Working Paper UCB-ITS-WP-88-6, August 1988, pp. 186.
- Kanafani, A. and H. Al-Deek, *Some Theoretical Aspects of the Benefits of En-Route Vehicle Guidance*, PATH Research Report, UCB-ITS-PRR-89-2, August 1989, pp. 85.

- Kanafani, A. and M. Hansen, *Hubbing and Re-hubbing at JFK International Airport - The Alligator Model*, ITS Research Report, UCB-ITS-RR-89-19, December 1989, pp. 107.
- Kanafani, A. and J.F. Zhang, *The Choices of Technology in Road Construction: Implications for Employment Policies*, ITS Research Report, UCB-ITS-RR-90-2, April 1990, pp. 61.
- Kanafani, A., G.D. Gosling and J. West, *Potential Roles of New Technology in the California Aviation System*, ITS Research Report, UCB-ITS-RR-90-7, May 1990, pp. 111. (ISSN 0192 409).
- Kanafani, A., (Committee Authorship), *Airport System Capacity: Strategic Choices*, Transportation Research Board, 1990, Special Report 226, pp. 134.
- Kanafani, A., (Committee Member), *Winds of Change - Domestic Air Transport Since Deregulation*, Committee for the Study of Air Passenger Service and Safety Since Deregulation, NRC/TRB, 1991, TRB Special Report 230, pp. 399.
- Kanafani, A., Y.B. Yim and J.L. Ygnace, *Expanding Usage of Cellular Phones: User Profile and Transportation Issues*, Path Research Report, UCB-ITS-PRR-91-19, University of California, Berkeley CA, December 1991, pp. 72.
- Kanafani, A., W. Youssef and D. Gillen, *California Civil Tiltrotor and Tiltwing Demonstration Program: Institutional, Environmental and Economic Factors*, ITS Research Report, UCB-ITS-RR-93-1, Feb. 1993, pp. 61. and appendices.
- Kanafani, A., J.L. Ygnace and Y.B. Yim, *Le Téléphone de Voiture, Usage et enjeux pour les transports - Résultats d'une enquête comparative Franco-Américaine*, Institut National de Recherche sur les Transports et leur Sécurité, March 1993, Rapport LESCO No. 9301, pp. 46.
- Kanafani, A. and W. Youssef, *Roles and Market Shares - The Interaction Between Air and High Speed Rail Transportation in California*, ITS Research Report, UCB-ITS-RR-93-6, June 1993, pp. 74.
- Kanafani, A., A. Khattak, M. Crotty and J. Dahlgren, *A Planning Methodology for Intelligent Urban Transportation Systems*, ITS Path Research Report, UCB-ITS-PRR-93-14, June 1993, pp. 116.
- Kanafani, A., D. Vetrovsky and W. Youssef, *The California Air Corridor Market: Opportunities for Operational Enhancement to System Capacity*, ITS Working Paper, UCB-ITS-WP-93-6, June 1993, pp. 21.
- Kanafani, A., R. Al-Ayat and P. Hung, *Integrating the Airport System into the Intelligent Vehicle-Highway System Programs*, ITS Working Paper, UCB-ITS-WP-93-16, November 1993, pp. 35.

- Kanafani, A. and M. Crotty, *Decision Support and Consensus Building for PLANiTS*, ITS Path Working Paper, UCB-ITS-PWP-93-20, November 1993, pp. 46.
- Kanafani, A., J. Brandt and T. Botimer, *Comparative Cost Functions for Intercity Travel in California: An Exploratory Study*, ITS Working Paper, UCB-ITS-WP-94-2, January 1994, pp. 22.
- Kanafani, A., J. Chan and T. Botimer, *The Long Term Economic Impacts of High Speed Rail*, ITS Working Paper, UCB-ITS-WP-94-1, January 1994, pp. 16.
- Kanafani, A. and D. Vetrovsky, *The Potential Role of Airports as Intermodal Terminals: Lessons from International and Domestic Experiences*, ITS Research Report, UCB-ITS-RR-94-3, March 1994, pp. 25.
- Kanafani, A., A. Khattak and E. Le Colletter, *Stated and Reported Route Diversion Behavior: Implication on the Benefits of ATIS*, ITS Path Research Report, UCB-ITS-PRR-94-13, May 1994, pp. 30.
- Kanafani, A., M. Manheim, A. Khattak and N. Vlahos, *The Role of Teamwork in a Planning Methodology for Intelligent Transportation Systems: Vol. 1*, Path Working Paper, PWP-94-8, May 1994, pp. 30.
- Kanafani, A. and S. Jolibois, *An Assessment of IVHS-APTS Technology Impacts on Energy Consumption and Vehicle Emissions on Transit Bus Fleets*, California Path Research Report, UCB-ITS-PRR-94-19, August 1994, pp. 20.
- Kanafani, A., T. Botimer, J. Chang and J.-M. Mathieu, *Forecasting Intercity Travel in California: Design of a Survey to Estimate the Demand for High Speed Rail Transportation*, ITS Research Report, UCB-ITS-RR-94-10, September 1994, pp. 205.
- Kanafani, A. and A. Khattak, *PLANiTS: A Functional Description*, ITS PATH Research Report, UCB-ITS-PRR-95-7, March 1995, pp. 34.
- Kanafani, A., R. Picado, A. Khattak and D. Lovell, *PLANiTS: The Methods Base, Model Selection and Model Integration*, ITS PATH Research Report, UCB-ITS-PRR-95-16, May 1995, pp. 52.
- Kanafani, A., R. Cayford and A. Khattak, *PLANiTS: A User's Guide for the Prototype*, ITS PATH Research Report, UCB-ITS-PRR-95-13, May 1995, pp. 18.
- Kanafani, A., T. Paramsothy, A. Khattak and D. Lovell, *PLANiTS: Organization and Integration of Modules*, ITS PATH Research Report, UCB-ITS-PRR-95-18, June 1995, pp. 37.

- Kanafani, A. and A. Khattak, *PLANiTS: The Case Based Reasoner as a Planning Tool for Intelligent Transportation Systems*, ITS, PATH Research Report, UCB-ITS-PRR-95-23, July 1995.
- Kanafani, A. and M. Shami, *Coping with Construction in Operational Airports: SFIA Case Study*, ITS Working Paper, UCB-ITS-WP96, February 1996, pp. 30.
- Kanafani, A. and J.M. Cao, *Real-time Decision Support for Integration of Airline Flight Cancellations and Delays - Part I: Mathematical Formulation*, ITS Working Paper, UCB-ITS-WP-96-1, April 1996, pp. 17.
- Kanafani, A., *Real-time Decision Support for Integration of Airline Flight Cancellations and Delay - Part II: Algorithm and Computational Experiments*, UCB-ITS-WP-96-2, May 1996, pp. 17.
- Kanafani, A., D. Levinson, D. Gillen and J.M. Mathieu, *The Full Cost of Intercity Transportation - A Comparison of High Speed Rail, Air and Highway Transportation in California*, ITS Research Report, UCB-ITS-RR-96-3, June 1996, p. 249.
- Malchow, M., A. Kanafani and P. Varaiya, *Modeling the Behavior of Traffic Information Providers*, PATH Working Paper, February 1997, UCB-ITS-PWP-97-5, pp. 21.
- Cao, J.-M. and A. Kanafani, *The Value of Runway Time Slots for Airlines*, ITS Working Paper, May 1997, UCB-ITS-WP-97-3, pp. 14. Ref-journal no. 59 was derived from this publication. Archival Journal publication No. 59 was derived from this Report
- Malchow, M., A. Kanafani and P. Varaiya, *The Economics of Traffic Information: A State of the Art Report*, October 1996, ITS PATH Working Paper, UCB-ITS-PWP-96-16, pp. 21.
- Chan, E., A. Kanafani and T. Canetti, *Transportation in the Balance: A Comparative Analysis of Costs and Cost Recovery for Air, Highway and High Speed Rail Systems in California*, ITS Working Paper, UCB-ITS-WP-97-17, pp. 15.
- Chan, E., A. Kanafani and T. Canetti, *Transportation in the Balance: A Comparative Analysis of Costs, User Revenues, and Subsidies for Highway, Air and High-Speed Rail Systems*, UCTC Research Report No. 363, University of California, Berkeley, June 1997, pp. 68.
- Chan, E., M. Malchow and A. Kanafani, *An Exploration of the Market for Traffic Information*, PATH Research Report, UCB-ITS-PRR-97-35, October 1997, pp. 43.
- Malchow, M. and A. Kanafani, *Some Aspects of the Market for Broadcast Traffic Information*, PATH Working Paper, UCB-ITS-PWP-99-9, June 1999, pp. 17.

Chan, W., M. Malchow and A. Kanafani, *The Market for Traffic Information - A Study of Industry Structure and Prospects*, PATH Research Report, UCB-ITS-PRR-99-17, June 1999, pp. 28.

Kanafani, A. and J.-M. Cao, *Integration of Airport Runway Scheduling and Congestion Pricing*, ITS Working Paper, November 1999, pp. 14.

Ohsfedlt, M., W. Dunaly, I. Banerjee and A. Kanafani, *Comprehensive Economic Evaluation of Investment in the ATB Environment*, Nextor Technical Memorandum, November 2003, Report No. 2, 13 pp.

(Contribution: 40%)

Kanafani, A. and C. A. Robelein, *An Investigation of Low Cost Airlines in the U.S. Aviation Market*, June 2004, 17 pp.

Kanafani, A., H. Benouar and B. Chiou, *California Trains Connected*, Path Research Report, October 2005, T.O. 5106, 112 p.

(Contribution: 25%)

Kanafani, A. and R. Wang “Measuring Multimodal Transport Level of Service” UCTC Research Report. Berkeley, July 2010.

Non-Refereed Conference Proceedings

- Kanafani, A. and R. Horonjeff, "Airport Planning and Design," *Proceedings, Institute of Transportation and Traffic Engineering, Berkeley, Aviation Science Seminar, Adelaide, Australia, August 1970*, pp. 22.
- Kanafani, A., "Forecasting Demand for Air Transportation," *Proceedings, U.C. Engineering Extension Course on Airport Planning and Design, Berkeley, March 1971*, pp. 16.
- Kanafani, A. and H.A. Kivett, "The Planning of Air Passenger Handling Systems," *Proceedings, Institute of Transportation and Traffic Engineering, Berkeley, Engineering Foundation Symposium on Airport Landside Planning, Asilomar, California, 1972*, pp. 61.
- Kanafani, A., "The Effects of Economic Determinants on Recreational Air Travel," *Proceedings, International Conference on Tourism and Air Transport of IATA and IUOTO, Manila, Philippines, February 1975*, pp. 14.
- Kanafani, A., "Notes on Aviation Systems Planning," *Proceedings, Institute of Transportation Studies, Berkeley, Staff Paper, UC Extension Course on Airport Planning and Design, Berkeley, July 1978*.
- Kanafani, A., "Transportation Engineering Education - A Retrospective of the Past 50 Years and A Look at the Challenges and Opportunities for the Future," *Proceedings, Invited paper presented at the Transportation Research Board XXVI Annual Meeting, Washington, D.C., December 1998*, pp. 8.
- Kanafani, A., "Information Technology and Transportation Management - A Vision Statement," *Toward Sustainable Mobility in Arriyadh – Challenges and Opportunities, Proceedings, Traffic Management Workshop, Arriyadh Development Authority, Riyadh, March 2002*.
- Huang, A. and A. Kanafani, "Airline Schedule Recovery after Disruption," *Proceedings, INFORMS Meeting, July 2002*.
- Kanafani, A., M. Ohsfeldt and W. Dunlay, "Comprehensive Evaluation of Investments – A New Method of Evaluating the Impacts of Technologies in Air Traffic Management," *TRB Annual Meeting, January 2004*, 10 pp.

Articles in Nonarchival Magazines or Journals

Kanafani, A., review of "The Role of Transportation in Regional Economic Development," by J. Meyer, G. Kraft and J.P. Valette, *Transportation Planning and Technology*, 1972, Vol. 1, No. 3, p. 225.

Kanafani, A., review of "Readings in Airport Planning," ed. by R. Soberman, *Transportation Planning and Technology*, November 1973, Vol. 2, No. 2, pp. 141-142.

Kanafani, A., review of "The Airport Business," by R. Doganis, *Journal of Air Transport Management*, September 1994, Vol. 1, No. 3.

Books or Chapters in Books

Kanafani, A. and H. Kivett, "Planning and Development of the Terminal Area," Chapter 9 in *Airport Planning and Design*, R. Horonjeff, McGraw-Hill, 1974, pp. 243-283.

A. Kanafani and D. Sperling, "National Transportation Planning", Martinus Nijhof Publishers, Rotterdam, 1982, pp. 192.

Kanafani, A., "Transportation Demand Analysis", McGraw-Hill Book Company, New York, December 1983, pp. 317.

Kanafani, A. and D. Sperling, "Guojia Jiatong Yunshu Guihua," Chinese Edition of National Transportation Planning, Tongji University Press, Shanghai, Nov. 1987, pp. 114.

Kanafani, A., "Avoiding the Collision of Cities and Cars", Special Report of the American Academy of Arts and Sciences, September 1993. (Work of a study committee of the AAAS).

Kanafani, A. and A. Ghobrial, "A Perspective on the Future Hubbing/Dehubbing of the Airport System," in *Handbook of Airline Economics*, D. Jenkins & C. Ray (eds.) McGraw-Hill Aviation Week Group, March 1995, pp. 321-328.

Takebayashi, M. and A. Kanafani, "A Bi-level Model of Airline Network Competition", May 2004, 24 pp.
(Contribution: 10%)

Kanafani, A. and K. Kuroda, "Global Competition in Transportation Markets: Analysis and Policy Making", edited volume, Elsevier, June 2005.

Huang, J. and A. Kanafani "Investment Strategies in Multimodal Passenger Transport Systems" (Huang), Ch. 13 In Inter-modal Transport Security, E. Elgar. 20214. In press.