

**DANIEL SHEFER – C.V.**

**PERSONAL**

Place of Birth: Israel  
Marital Status: Married + 4 children  
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**ACADEMIC DEGREES**

1970: Ph.D. University of North Carolina, Chapel Hill (Planning and Economics)  
1966: M.C.P. - Harvard University, (Urban and Regional Planning)  
1964: B.L.A. University of California, Berkeley

**ACADEMIC APPOINTMENTS**

2005 Summer Visiting Professor, Free University, and Visiting Scholar at the Tinbergen Institute, Amsterdam, The Netherlands  
  
2004-2005 Senior Fellow at the Kennedy School of Government (KSG), Harvard University, Cambridge, MA. USA  
  
2000-2002 Elected Dean, Faculty of Architecture and Town Planning, Technion - Israel Institute of Technology  
  
1998-1999 Fellow at the Kennedy School of Government (KSG), Harvard University, Cambridge MA, USA  
  
1999 Visiting Scholar at the Tinbergen Institute, Amsterdam, Summer The Netherlands.  
  
1996-1997 Re-elected Dean, Faculty of Architecture and Town Planning (second term)  
  
1993-1995 Elected Dean, Faculty of Architecture and Town Planning  
  
1986-present Appointed to the Lunenfeld-Kunin Chair in Urban and Regional Planning  
  
1985-present Professor of Urban and Regional Economics & Transportation  
  
1976-1984 Associate Professor  
  
1970-1975 Senior Lecturer

**ACADEMIC AND ADMINISTRATIVE POSTS**

- 2014-present Chairman of the Board of Directors, **Technion Sports Center**. President appointment
- 2010 Appointed member of the **Search Committee** to appoint a Dean for the Faculty of Architecture and Town Planning at the Technion
- 2008-2014 Member of the Board of Director The **Technion Sports Centre**
- 1998-present Member of the Board of Directors of the "**National Museum of Science and Technology**", Haifa, Israel
- 2001-2010 Chairman of the jury of the "**European Regional Science Association Prize Selection Committee**" (Elected by the ERSA Council)
- 2000-2009 Appointed member of the "**Special Selection Committee of the University of Cyprus**" (appointed by the Senate of the University of Cyprus)
- 2003 - 2004 Member of the "**Standing Committee for Appointment and Promotion of Senior Academic Staff**" (elected by the Senate of the Technion)
- 2001- 2004 Member of the "**Scientific Advisory Committee of the Samuel Neaman Institute for Advanced Studies in Science and Technology**" (senate representative)
- 2000-2005 Member of the "**Advisory Board of the Design Knowledge Systems Research Centre**" Faculty of Architecture, Delft University of Technology, The Netherlands
- 2000- 2005 Elected Member of the "**Disciplinary Committee of Full Professors**" (Elected by the Senate of the Technion)
- 2000  
(June-Sept.) Appointed head of the Special Committee established to evaluate the viability of the proposed cable-car – connecting the Haifa Bay Area with Haifa University via the heart of the Technion campus (appointed by the President of the Technion)
- 2000-2003 Reappointed member of the "**National Council on Planning and Construction**" (Presidential appointment).
- 1993 Summer **Visiting Scholar** at the Tinbergen Institute, Amsterdam, The Netherlands.
- 1995-present Chairman of the Israeli section of the Regional Science Association
- 1993 Spring Semester **Visiting Professor of Urban and Regional Economics**, Department of City and Regional Planning, Cornell University.

- 1992            **Visiting Scholar**, Institute of Transportation Studies and the Center for Real Estate and Urban Economics, University of California, Berkeley.
- 1992            **Chairman** of the "Technion City Master Plan" Committee - President's appointment
- 1990-1993      Senate elected member of the Technion "**Standing Committee on Conferring the degrees of D.Sc., 'Honoris Causa'** " and the Harvey Prize.
- 1988-1989**      Senate elected member of the Technion "**Standing Committee on Appointment & Promotion of Non-tenured Academic Staff**".
- 1985-1989      **Director**, Transportation Research Institute, Technion.
- 1986-1989      **Director**, Centre for Urban and Regional Studies, Technion.
- 1986-1988      **Chairman**, Graduate Program in Urban and Regional Planning, Technion.
- 1985-present    Member of the Executive Committee on Appointments and Promotions, Faculty of Architecture and Town Planning, Technion.
- 1982-1986      **Associate Dean**, Faculty of Architecture and Town Planning, Technion.
- 1979-1981      Member of the Council for Graduate Studies, Graduate School, Technion
- 1979-1981      Member of the Fellowship, Grants & Loans Committee, Graduate School, Technion

## **PUBLIC OFFICES**

- 2003- 2004      Member of the Technion "Science and Technology Committee" (president appointment)
- 2003- 2004      Chairman of the Special Committee on "Biotechnology Cluster for Northern Israel" – S. Neaman Institute, Technion
- 2000- 2001      Appointed member of the Special Committee on the Amalgamation of Local Governments (appointed by the Ministry of the Interior)
- 1994-1996      Member of the Public Council on the Economic Development of the City of Haifa (Mayor's appointment)
- 1994-1996      Member of the National Council for Economic Planning (Ministerial appointment).

- 1988-1990 Elected member of the Board of Directors of the Economic Development Authority of the Municipality of Haifa
- 1985-1990 Appointed member of the National Committee on Road Safety headed by the Ministry of Transport.

### **TEACHING APPOINTMENTS**

- 1993 Visiting Professor, Dept. of City and Regional Planning, Cornell University.
- 1992 Visiting Scholar, Centre for Real Estate and Urban Economics, University of California, Berkeley (UCB)
- 1990 Visiting Scholar, University of California, Los Angeles (UCLA)
- 1989-1990 Visiting Professor, Regional Science Dept., University of Pennsylvania, PEN, Philadelphia, Pennsylvania
- 1978-1981 Associate Professor, Haifa University (part-time)
- 1975 (Jan/Feb) Visiting Scientist invited by the Mexican Government to conduct a course on 'Quantitative Techniques for Urban and Regional Planners'

### **TEACHING EXPERIENCE**

#### Graduate Courses:

- 1970-2007 Quantitative Planning Methods 1; Quantitative Planning Methods 2; Urban and Regional Economics 1; Urban and Regional Economics 2; Games and Decisions Theories in Planning; Mathematical Models of Urban Structures; Land Use & Transportation Models; Urban Transportation Planning.

### **RESEARCH APPOINTMENTS IN INTERNATIONAL INSTITUTIONS**

- 2014-2015 Re-Appointed as a Panel Member in the European Research Council – Advanced Grant (ERC-AG)
- 2012-2013 Re-Appointed as a Panel Member in the European Research Council – Advanced Grant (ERC-AG)
- 2011-present Appointed Member of the International Advisory Board of the SEARCH Project funded by the European Union, PF7 program

2010-2011	Appointed as a Panel Member in the European Research Council – Advanced Grant (ERC-AG)
2005 Summer	Visiting Professor, Free University and Visiting Senior Scholar at the Tinbergen Institute, Amsterdam, The Netherlands
2004-2005	Senior Fellow, Kennedy School of Government (KSG) Harvard University
1998-1999	Visiting Scholar, Kennedy School of Government (KSG) Harvard University
1993	Visiting Professor at the Tinbergen Institute, Amsterdam, The Netherlands.
1992	Visiting Scholar, Centre for Real Estate and Urban Economics and the Institute of Transportation Studies (ITS), University of California, Berkeley
1981-1982	Senior Economist, The World Bank, Development Economics Dept., Urban and Regional Economics Division, Washington, DC
1976-1978	Visiting Scholar, joint Centre for Urban Studies of M.I.T. & Harvard University, Cambridge, MA

## AWARDS AND CITATIONS

2009-2012	Winner of the Israeli Science Foundation Research Grant for 3 years
2000-2003	IFTSE (Israeli Financing Innovation Schemes for Europe, research project sponsored by the EUROPEAN Union 5 <sup>th</sup> Framework, R&D program (collaborator).
1994-1998	Winner of the German-Israel Foundation (GIF) Research Grant for 3 years.
1986 (June)	Winner of the Scientific Research Prize of the Israel Ministry of Interior for the book: <i>Industrial Location &amp; Air Pollution Quality Control: A Methodological Approach</i> . Published by J. Wiley & Sons Inc., (1980) with J.M. Guldmann
1980 (July)	Winner of a grant for municipal research by Mifal Hapayis - Research Grant Foundation, commemorating P.Sapir, for the research project entitled: ' <i>Optimal Planning of Urban Street Lighting Considering the Socio-Economic Characteristics of the Neighborhoods</i>
1979 (May)	Winner of the Technology Prize of the Municipality of Haifa

Commemorating Gen.Y. Dori, for the research project entitled:  
*Centralized Air Pollution Treatment and the Optimal Location of  
 Industries ' a portion of which was published under the same title  
 in Environmental Planning A, 1978, Vol. 9, pp. 1121-1142*

1979 (Jan) Received a Citation from ENO Foundation for Transportation for  
 valuable contribution to Foundation's Traffic Quarterly Journal.

## FELLOWSHIPS

2005 Summer Visiting Professor and Visiting Senior Scholar at the Tinbergen Institute,  
 Amsterdam, The Netherlands

2004-2005 Senior Fellow at the Taubman Center for State and Local Government,  
 Kennedy School Government, Harvard University, Cambridge, MA,  
 USA

1998-1999 Fellow at the Taubman Center for State and Local Government,  
 Kennedy School Government, Harvard University, Cambridge, MA,  
 USA

1999 Visiting Scholar, Institute of Transportation Studies, University  
 (March-April) of California, Berkeley, Berkeley, CA, USA

1999 Summer Visiting Scholar at the Tinbergen Institute, Amsterdam. The Netherlands

1993 Summer Visiting Scholar at the Tinbergen Institute, Amsterdam. The  
 Netherlands

1992 Fall Visiting Scholar at both the Institute of Transportation Studies and the  
 Center for Real Estate and Urban Economics. U.C., Berkeley

1976-1968 Visiting Scholar - Joint Center for Urban Studies, Massachusetts  
 Institute of Technology (MIT) and Harvard University

1967-1968 Doctoral Fellowship - Regional Science Research Inst., Philadelphia -  
 Economic Development Administration (EDA)

1964-1966 Richard King Mellon Fellowship, H.T.I. Fellowship, Littauer  
 Foundation Fellowship, Harvard Univ., Cambridge, MA

## RESEARCH AND CONSULTING EXPERIENCE: (Selected)

1994-2002 Preparing A Master Plan and A Development Plan for the Upper  
 Galilee Regional Council.

- 1991-2001      Preparing a Development Plan for the northern (Galilee) Region in Israel: a large- scale regional development project commissioned by the Israel National Committee for Planning and Buildings, principal investigator (with others).
- 1991-1993      Preparing a long-range National Transportation Master Plan for Israel in the year 2020 (principal investigator).
- 1988-1989      Estimating Demand Functions for Housing, Neighbourhood & Environmental Characteristics in the Haifa Region. Research project sponsored by the office of the Vice-President for Research at the Technion (with V. Tzubari).
- 1988-1989      Road Safety Issues in Israel - Safety Belts and Factors Affecting Pattern of Road Accidents in Israel. Research Projects carried out at the Technion Transportation Research Inst., and sponsored by Ministry of Transport, Government of Israel (with others).
- 1988-1989      Generating New Employment Opportunities in Development Towns. Research Project carried out at the Samuel Neaman Inst., for Advanced Studies in Science and Technology, Technion (with A. Frenkel).
- 1987-1988      Estimating Willingness-to-Pay for Housing Qualities in the Metropolitan Fringe. Research Rep. No. 40, Center for Urban and Regional Studies, Technion (with R. Degani).
- 1986-1987      Generating Alternative Socio-Economic Development Policies for the Development Towns in Israel (Stage I) Research Project carried out at the Samuel Neaman Inst. for Advanced Studies in Science and Technology (with A. Frenkel).
- 1986              Estimating the Potential Demand for Commuter Train Service in the Haifa Northern Region. Research Project sponsored by the Israel State Railways, Ministry of Transport, Transportation Research Inst., Technion (with Y. Gur, I. Hocherman & Y. Federowitz).
- 1985-1989      Benefits of Morbidity Reduction from Air Pollution Control. Research Grant by United States-Israel Bi-National Science Foundation (BSF) (with Prof. M. Shechter, Haifa Univ., Prof. E. Mills, Princeton Univ., Prof. L. Love, Brookings Inst., and Carnegie- Mellon University).
- 1985-1989      Measuring the Economic Impacts of Regional Irrigation Project in LDC'S: The Narayani Zone Irrigation Development Project (NZIDP), Nepal. Research Report No. 118, Center for Urban and Regional Studies, Technion (with S. Shrestha).

- 1984-1986      The Impact of Advanced Means of Communication on the Location of High-Tech Industries in Israel. Research sponsored by the Samuel Neaman Inst. for Advanced Studies, Technion (with A. Frenkel).
- 1979-1981      Member of the research team investigating Neighborhood Rehabilitation in Israel (Stage I). Research project sponsored by the Samuel Neaman Inst. for Advanced Studies, Technion (with R. Alterman, N. Carmon, M. Hill).

### **INTERNATIONAL CONFERENCES and INVITED LECTURES (*Recent*)**

(Paper presented)

**"Sustainable Transportation and Urban Development"** (with Yoram Shiftan), St. Petersburg, Russia, 54<sup>th</sup> Congress of the European Regional Science Association, August 26-29, 2014.

Palermo, Sicily, Italy, 53ed Congress of the European Regional Science Association, August 27-31, 2013.

**"Transportation-Land Use Connection: The Impact of Transportation Investment on Land Use Change"**, (with Ofra Sharon), Bratislava, Slovakia 52ed Congress of the European Regional Science Association, August 21-25, 2012.

**"Economic Diversity and the Spatial Distribution of Growth and Inequality: the Case of Israeli Cities"**, (with M. Antonio) World Congress of the Regional Science Association International, Timisoara, Romania, May 9-12, 2012, (Member of the Scientific Committee).

**"University-Industry Technology Transfer: Fostering and Hindering Factors and Programs"**, (with A. Frenkel), 58<sup>th</sup> Annual North American Meetings of the Regional Science Association (NARSAI) Miami, USA, November 9-12, 2011.

**"Spatial inequality between and within Urban Areas"**, *Special Session* – 51<sup>st</sup> Congress of the European Regional Science Association, Barcelona, Spain, August 30 - September 3, 2011.

**"The Center-Periphery Dilemma and the Issue of Equity in Regional Development"**, (with A. Frenkel), 51<sup>st</sup> Congress of the European Regional Science Association, Barcelona, Spain, August 30 - September 3, 2011.

**"Factors Impeding the Decision to conserve Buildings with Cultural Heritage Value"**, (with E Salinger), 51<sup>st</sup> Congress of the European Regional Science Association, Barcelona, Spain, August 30 - September 3, 2011.

**"The Center-Periphery Dilemma and the Issue of Equity in regional Development"** (with A. Frenkel), Regional Science Association Tripartite Workshop, London, 2-4 May 2011.



**“Are Urban Transportation Benefits Absorbed Fully by Land Values?”**, (with H. Aviram), 56<sup>th</sup> Annual North American Meetings of the Regional Science Association International (NARSAI) San Francisco, USA, November 18-21, 2009.

**“Human Capital, Social Capital and Creative Capital, as Sources of Urban Growth”**, 49<sup>th</sup> Congress of the European Regional Science Association, Lodz, Poland, Aug. 25-29, 2009.

**“The Economics of Conservation of Buildings with Cultural Heritage Value: The White City of Tel Aviv”**, (with E. Salinger) 55<sup>th</sup> Annual North American Meetings of the Regional Science Association International (NARSAI) Brooklyn - New York, USA, November 19-22, 2008.

**"The Economics of Conservation of Buildings with Cultural Heritage Value: The White City Tel Aviv"**, 48<sup>th</sup> Congress of the European Regional Science Association, Liverpool, UK, Aug. 27-31, 2008.

**"Sustainable Transport and Land Use Planning: Analyzing Metropolitan Plans in Israel"**, 48th Congress of the European Regional Science Association, Liverpool, UK, Aug. 27-31, 2008.

*International Workshop on: “Human Capital, Social Capital and Creative Capital as Sources of Regional Growth”*, Tinbergen Institute and the Free University, Amsterdam, June 30-July 1, 2008.

North America Regional Science Association (NARSA) Savannah, Georgia, USA November 6-10, 2007.

**"Parking Policy Impact on Vehicle Pollutant Emissions: The Case of the Tel Aviv Metropolitan Area"**, 47th Congress of the European Regional Science Association, Paris, Aug. 29-Sept. 2, 2007.

*Nectar Cluster 1- European Seminar: "Passenger Attitudes toward Bus and Rail Transport"* Menton, France 13-14, October 2006.

*Nectar Cluster 1- European Seminar: "From Sustainability to Eco-Efficiency in Transportation"* Fiesole, Firenze, Italy, October 15-16, 2005.

**"Incorporating Agglomeration Economies in Cost-Benefit Analysis in Transport projects"** 45th Congress of the European Regional Science Association, Amsterdam, August 23-27, 2005.

**"Private vs. Public Technological Incubator Program – The Lesson from Israel"** 45th Congress of the European Regional Science Association, Amsterdam, August 23-27, 2005.

**"Modelling joint Development of Light Rail Transit Stations and Land Use – the Case of Tel Aviv"** 45th Congress of the European Regional Science Association, Amsterdam, August 23-27, 2005.

*International Workshop on: "Modelling the Entrepreneurial and Innovative Space-Economy"*, Tinbergen Institute and the Free University, Amsterdam, August 22-24, 2005.

**"The Impact of Knowledge Transfer on the Growth of the Biotechnology Industries"** The 44<sup>th</sup> Annual Meeting of the Western Regional Science Association, San Diego CA, February 23-25, 2005.

**"Privatizing the Technological Incubator Program"** George Mason University, Fairfax, Virginia, 24 March 2005.

**"Evaluating the Israeli Technological Incubator Program"**, Cornell University, NY. 11 February 2005.

**"Spatial Diffusion of innovation in Rural Regions"** The 51<sup>st</sup> Annual North American Meetings of the Regional Science Association International, Seattle, Washington, 11-13 November 2004.

**"Modelling the Spatial Diffusion of Innovation in Rural Regions Using Discrete Choice Model"** 44th Congress of the European Regional Science Association, Porto, Portugal, August 25-29, 2004.

*International Workshop on: "Modelling the Spatial Diffusion of Innovation in Rural Regions Using Discrete Choice Models"*, Regions in Action: The Nexus of Innovation, Entrepreneurship and Public Policy, Tinbergen Institute, Amsterdam, May 24 – 25, 2004.

**"Estimating the Socio-Economic Benefits of the Yarkon Park in Tel Aviv, Israel"** (with Nurit Zakai), 43<sup>rd</sup> Congress of the European Regional Science Association, Jyväskylä, Finland, August 27-30, 2003.

**"Differential Impact of a Large-Scale Transportation Project on Land Values"** (with Haim Aviram), 43<sup>rd</sup> Congress of the European Regional Science Association, Jyväskylä, Finland, August 27-30, 2003.

**"Regional Networking and the Development of New Biotechnology Companies"** (with others), 43<sup>rd</sup> Congress of the European Regional Science Association, Jyväskylä, Finland, August 27-30, 2003.

*International Workshop on: "Modern Entrepreneurship, Regional Development and Policy"*, Tinbergen Institute and the Free University, Amsterdam, May 23-24, 2003.

**"Estimating the Socio-Economic Benefits of the Yarkon Park in Tel Aviv, Israel"** (with Nurit Zakai), Joint Workshop of the Irish/British and Israeli Sections of the RSA, Edinburgh, Scotland, May 18-19, 2003.

**“Differential Impact of a Large-Scale Transportation Project on Land Values”** (with Haim Aviram), Joint Workshop of the Irish/British and Israeli Sections of the RSA, Edinburgh, Scotland, May 18-19, 2003.

**“R&D, Firm Size and Innovation: An Empirical Analysis”**, 42<sup>nd</sup> Annual Meeting of the Western Regional Science Association, (WRSA), Rio Rico, Arizona, February 26-March 1, 2003.

*International Workshop on: “Economic Aspects of Multifunctional Land Use and Urban Rejuvenation”*: The Economics Multifunctional Land Use, Tinbergen Institute, Amsterdam, 23<sup>rd</sup> Sept. 2002.

**“The Israeli Technological Incubator Program: A Decade Later”** (with Amnon Frenkel), 42<sup>nd</sup> Congress of the European Regional Science Association, Dortmund, Germany, August 27-31, 2002.

**“Incorporating Agglomeration Economic into Transport Project Cost-Benefit Analysis”** (with Haim Aviram), 42<sup>nd</sup> Congress of the European Regional Science Association, Dortmund, Germany, August 27-31, 2002.

**“Public Policy, Locational Choice and the Innovation Capability of High-Tech Firms”** (with others), 41<sup>st</sup> Congress of the European Regional Science Association, Zagreb, Croatia, 28 August – 2 Sept, 2001.

**European Strategies in the Globalising Markets**, 6<sup>th</sup> NECTAR Conference, Helsinki, Finland, May 16-21, 2001.

**“Transportation Impact Statement: A New Tool for Joint Land-Use Transportation Planning”** (with others).

**“Benefits of Urban Transportation Projects Due to Changes in the Spatial Distribution of Urban Land-Uses”** (with H. Aviram).

**“Public Policy, Locational Choice and the Innovation Capability of High-Tech Firms”**. 41<sup>st</sup> European Regional Science Association Conference, Zagreb, Croatia, 28 August – 2 Sept., 2001.

*International Workshop on: “Does Location Matter? ICT and the University of the 21<sup>st</sup> Century”*. Delft University of Technology, The Netherlands, June 10-13, 2001.

**“Comparison of Fuel Tax and Partial Congestion Tools as an Alternatives to Complete Congestion Tolls”** (with others 6<sup>th</sup> World Congress of the RSAI, Lugano, May 16-20, 2000.

**“Does Location Matter for High-Tech Firms? Evidence from Israel and Ireland”** (with A. Frenkel and S. Roper) The 3<sup>rd</sup> Israeli-British and Irish Joint Regional Science Workshop on *Public Investment and Regional Economic Development*, Hebrew University, Jerusalem 14-16, Feb. 2000.

**“The Effect of Transport Control Measures on the Location of Businesses in Central Business Districts”** (with Y. Shiftan, and G. Avraham) Transport Innovation: Technology-push or Demand Driven, 5<sup>th</sup> NECTAR Conference, Delft, the Netherlands, October 20-23, 1999.

**“Privatization and Deregulation of Public Transport: Reasons and Results”**, Joint Workshop of the Dutch-Israeli Sections of the Regional Science Association, Utrecht, The Netherlands, 30-31 August 1999.

**“The Effect of Employer – Provided Transportation on the Emission of Pollution From Motor Vehicles”** (with Y. Shiftan and M. Rotstein). The 39<sup>th</sup> Annual Congress of the European Regional Sciences Association, Dublin Ireland, 23-27 August 1999.

**“Reducing Congestion, Air Pollution, and Road Fatalities in Urban Areas, an Integrated Approach”** ESF/NSF Conference on Social Change and Sustainable Transport (SCAST) University of California Berkeley, Berkeley CA, 10-13 March 1999.

**“Targeting Industries for Regional Development in Israel and Germany: A Comparative Study”** (with A. Frenkel, K. Koschatzky, and G.H. Walter). The 38<sup>th</sup> Annual Meeting of the Western Regional Science Association Ojai Valley CA, February 21-24, 1999.

**“Firm Characteristics, Location and Regional Innovation: A Comparison Between Israeli and German Industrial Firms”** (with A. Frenkel, K. Koschatzky and G.H. Walter), Workshop on: “Fastest Growing Industries: A Target Group for Innovative Regional Development and Regional Technology Policy?” Karlsruhe, Germany, December 7, 1999.

**“Pricing and Regulation Policies for Controlling Pollution Emissions from Motor Vehicles”**, (with Guy Kav-Venaki). The 45<sup>th</sup> North American Meetings of the Regional Science Association, Santa Fe, New Mexico, Nov. 11-14, 1998.

**“The Future of Urban Areas”**, Interaction Symposium Commemorating the 100<sup>th</sup> Anniversary of Garden Cities Published by Ebenezer Howard, Ginko Club, Nagoya, Japan, 16 Oct., 1998.

**“Economic and Social Merits and Liabilities of Privatization and Deregulation of Public Transport”**. The annual Meetings of Japan Section of the Regional Science Association International, (RSAI), Tokyo, Japan, 13-18 October, 1998.

The 38<sup>th</sup> European Regional Science Association Congress – 1998, August 28 – September 1, Vienna, Austria. Papers presented:

1. **“Technological Incubators as Creators of High-Tech Firms in Israel”** (with V. Modana).
2. **“Spatial Diffusion of Innovations in Agriculture and Regional Development”**. (with M. Cohen (Kedmon)).
3. **“Firm Characteristics, Location and Regional Innovations: A Comparison Between Israeli and German Industrial Firms”** (with A. Frenkel, K. Koschatzky and G.H. Walter).

**“Evaluating the Effectiveness of Bus Priority Lanes in Tel Aviv Metropolitan Area”** (with I. Taichman). 8<sup>th</sup> World Conference on Transport Research, Antwerp, Belgium 12-17 July, 1998.

**“The Impact of the Ayalon Freeway on the Structure of the CBD of the Tel Aviv Metropolitan Area”** (with M. Tuchler-Aharoni). 4<sup>th</sup> NECTAR Euroconference, Shefayim, Israel, 19-23 April, 1998.

**“Local Milieu and Innovations: Some Empirical Results”** The 37 European Congress of the Regional Science Association, Rome, Italy, August 26-29 1997.

**“Industrial Innovation and Regional Growth”**, Conference on Mediterranean Regional Economic Growth and Sustainable Development, Arles, France June 19-20th 1997.

**“Agglomeration and Innovation: Some Empirical Results”, Endogenous Growth and the Space Economy”**, *Tinbergen Institute*, Amsterdam, The Netherlands, Dec. 19-20, 1996.

**“The Role of Public Transport in Urban Transport Networks”**, European Transport and Communication Networks, *NECTAR Mons*, Belgium, Sept. 24-28, 1996.

**“Modeling Regional Innovativeness and Innovation”**, 36th Congress of the European Regional Science Association, Zurich, Switzerland, August 26-30, 1996.

**"Urban Transport Policy Revisited"**, Paper presented at the European Science Conference - EC Euroconference on: *European Transport Networks and Policies*, Espinho, Portugal, April, 1995.

**"Transport Regulation and Air Quality Standards"**, Paper presented at the VSB Advanced Studies Institute on *Transport and Environment*. Amsterdam, The Netherlands, Feb. 1995,.

**"Congestion and Safety on Highways"**, (with Piet Rietveld). Paper presented at the Third International Conference on: *Road Safety, and the Environment in the 21st Century*, Tel Aviv, Israel, Nov. 1994.

**"Generating and Evaluating Alternative Regional Development Plans"** (with Amir, Frenkel and Law-Yone). Paper presented at the RSAI (Nov. 1994), Groningen, The Netherlands, Nov. 1994.

**"Location of High-Technology Industries, Knowledge Centers and Regional Development"** (with A. Vider). Paper presented at the RSAI European meeting, Moscow, August 24-27, 1993.

**“Pricing as a Means of Reducing Traffic Congestion and Air Pollution in Urban Areas”**. Paper presented at the VSB Advanced Studies Institute (ASI) on Transport and the Environment sponsored by the Tinbergen Institute Amsterdam, The Netherlands, Dec. 7-11, 1992.

**"Measuring the Impact of Congestion on Road Fatalities: A Time-Series Analysis of Micro-Data"** 6th World Conference on Transport Research (WCTR), Lyon, France, 29 June - 3 July, 1992.

**"Regional Development and International Borders"**, Workshop on: Europe on the Move - New Borders, Old Barriers, NIAS, Wassenaar, March 17, 1992.

**"Transport Communications & Spatial Organization in the Europe of the Future"**. Network for European Communications and Transport Activities Research (NECTAR) Symposium, sponsored by the European Science Foundation (ESF), held in Delft, Netherlands, Oct. 19-20, 1991.

**"A Hierarchical Regionalization of Sub-Regions in Colombia."** 31st Regional Science Association Congress, Lisbon, Portugal, August 27-30, 1991.

**"Gender Differences in Travel-to-Work Patterns After a Move to the Suburbs."** ACSPAESOP joint International Congress, Oxford, UK, July 8-12, 1991.

**"Rural to Urban and Urban to Urban Migration Patterns in Columbia,"** (with L. Steinvortz). 30th Regional Science Association European Congress, Istanbul, Turkey, August 28-31, 1990.

**"Transportation Planning in Jerusalem - Past, Present & Future."** Conference on Dilemmas of Planning in Middle Eastern Cities, University of California, Los Angeles (UCLA), Los Angeles, CAL, June 1-2, 1990.

**"Industrial Development and job Creation in Developing Regions."** 29th Annual Meeting of the Southern Regional Science Association, Washington DC, March 22-24, 1990.

#### **MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS (Current)**

American Institute of Planners  
 Regional Science Association  
 American Economic Association  
 Israel Association of Environmental Planning  
 Israel Association of Transportation Planning

#### **MEMBER OF THE EDITORIAL BOARD OF THE FOLLOWING INTERNATIONAL JOURNALS**

1. Transportation Research D – Transport and the Environment (USA) until 2017.
2. European Journal of Transport and Infrastructure Research (The Netherlands)

3. Papers of Regional Science, Journal of the Regional Science Association International (until 2010).
4. **Appointed Member of the Editorial Board of the New Springer Monograph Series** on New Frontiers in Regional Sciences: Asian Perspectives, 2013- present.

## **REFEREE AND REVIEWER OF INTERNATIONAL JOURNALS**

GIF  
 ISF  
 Technovation  
 Urban Studies  
 Regional Studies  
 Papers in Regional Science  
 Annals of Regional Science  
 Journal of Regional Science  
 Agricultural Economics  
 Transportation Research D  
 Journal of Developing Areas  
 Regional Science and Urban Economics  
 Environment and Planning A, B, C& D  
 European Journal of Operations Research  
 Journal of the American Planning Association  
 Journal of Economic and Social Geography

## **PUBLICATIONS**

### **Theses**

*Economies of Urban Agglomeration –a Production Function Analysis of Economies of Scale*  
 Ph.D. Dissertation, University of North Carolina, Chapel Hill, 1969.

*Urban Size and the Development Policy.* Master's Thesis, Harvard University, Cambridge, MA., 1966 (Adviser: Professor William Alonso).

### **Books**

*Sustainable Development in Israeli Cities: The Case of the Joint Transportation-Land Use Planning* (with P. Plaut and G. Hazan) The Jerusalem Institute, 2008, (in Hebrew).

*Regions, Land Consumption and Sustainable Growth* (with O. Atzema and P. Rietveld (eds.)), UK: Edward Elgar Publishing Limited, 2005.

*"Planning for Bicycles Riders"* (with P. Plaut and M. Mendelson). Center for Urban and Regional Studies – Research Series, Technion – Israel Institute of Technology, 2005 (in Hebrew).

*"Technological Incubators in Israel: Technological Policies in an Age of Privatization"* (with A. Frenkel and M. Miler). Center for Urban and Regional Studies and S. Neaman Institute, Technion – Israel Institute of Technology 2005 (in Hebrew).

*Public Investment and Regional Economic Development* (with D. Felsenstein, R. McQuaid and P. McCann (eds.)), UK: Edward Elgar Publishing Limited, 2001.

*Regional Development in an Age of Structural Economic Change* (with P. Rietveld (eds.)), Aldershot U.K.: Ashgate Publishing Limited, 1999 (including four contributions).

*The Effect of Spatial Job-Housing Mismatch on Travel Pattern in the Suburbs of the Tel Aviv Metropolitan Area* (with I. Efrat), Center for Urban and Regional Studies and S. Neaman Institute, Technion – Israel Institute of technology, Haifa, June 1993 (in Hebrew).

*The Ramification of Amalgamating Two Medium Size Cities in Israel: The Case of Ramla and Lod* (with O. Aaron), Center for Urban and Regional Studies and S. Neaman Institute, Technion – Israel Institute of technology, Haifa, (July 1993 (in Hebrew)).

*Knowledge Centers and the Location of High Technology Industries: The Case of Rehovot Ness-Ziona Region in Israel* (with A. Vider). Published by Akad: The Samuel Neaman Institute for Advanced Studies in Science and Technology, Technion, 1993 (in Hebrew).

*Motivations for Migration of Upwardly Mobile Population to and from Development Towns in Israel* (with T. Alfandari). Published by Akad: The Samuel Neaman Institute for Advanced Studies in Science and Technology, Technion, Haifa, June 1992 (in Hebrew).

*Retrospect and Prospect of Regional Science* (with D. Boyce & P. Nijkamp, (eds.) Germany: Springer Verlag GmbH & Co., 1991, (with contribution).

*Location and Labour Considerations for Regional Development.* (with F.J. Dietz and W. Heijman (eds.)). England, Aldershot: Avebury, Gower Publishing Co., 1991, (with contribution).

*Evaluation Methods for Urban and Regional Plans: Essay in Memory of Morris (Moshe) Hill.* D. Shefer and Henk Voogd (eds.). London: Pion, 1990, (with contributions).

*Industrial Location and Air Pollution Quality Control .* (with J. Guldmann). New York: John Wiley and Sons, Inc., (pp. 237), 1980.

*Tiberias - An Approach to Urban Renewal .* (with A. Rahamimoff & A. Kirshenbaum). Ministry of Construction & Housing, Jerusalem, Israel, 1978 (in Hebrew and English).

## **EDITOR OF SPECIAL ISSUES**

*Evaluating the Impact of Transport Projects*, Special Issue of Evaluation and program Planning (Guest Editors with Yoram Shiftan) 2008.



*Agglomeration, Economic Geography and Regional Growth*. Special Issue of **Papers in Regional Science** (Guest editor with P. McCann) Vol.84, No. 3, 2005.

*Innovation* – The European Journal of Social Sciences. Special Issue on: “**Future Sustainable Mobility**” (Guest editor with P. Nijkamp), 2000.

*Transportation Planning and Technology* – Special Issue No, 2, “**Network Connectivity and Multimodality**” (Guest editor with P. Nijkamp and H. Priemus), 1999.

*Transportation Planning and Technology* – Special Issue No. 1 “**Inter-modality and Freight Transport**” (Guest editor with H. Priemus and P. Nijkamp), 1999.

*Environment and Planning A* Vol. 7, No.3. Guest Editor of Special Issue: "Papers of 1st Meeting of the Israel Regional Science Association." London: Pion Publications, 1975 (Guest editor with M. Hill).

#### **REFEREED ARTICLES AND CHAPTERS IN BOOKS** (*partial list*)

"Measuring Passengers Loyalty to Public Transport Modes" (with Y. Shiftan and Y. Barlach), *Journal of Public Transportation*, 2015.

"Reducing Vehicle Pollutant Emissions in Urban Areas with Alternative Parking Policies", (with S. Bekhor and D. Mishory-Rosenberg) in A. Rose, P. Nijkamp, and K. Kourtit (eds.) *Regional Science Matters – Studies Dedicated to Walter Isard*, Berlin: Springer Verlag 2014, Chapter 20.

"Spatial Inequality Between and Within Urban Areas: The Case of Israeli Cities", (with M. Antonio), *European Planning Studies*, Vol. 21, (3) 2013, pp. 373-387.

“The Centre-Periphery Dilemma, Spatial Inequality and Regional Development” (with A. Frenkel), in N. Carmon and S. Fainstein (eds.) *Policy, Planning and People*, Phila: University of Pennsylvania Press 2013, Chapter 9, pp. 183-202.

“University-Industry Technology Transfer: Fostering and Hindering Factors and Programs”, (with A. Frenkel), in A. Frenkel, P. Nijkamp, P. McCann (eds.) *Societies in motion: Innovation, Migration and Regional Transformation*, Cheltenham UK: Edward Elgar Publishing, 2012, Chapter 6, pp. 140-172

“Sustainable Transportation Development and Travel Behaviour”, (with Y. Shiftan), in A. Frenkel, P. Nijkamp, P. McCann (eds.) *Societies in motion: Innovation, Migration and Regional Transformation*, Cheltenham UK: Edward Elgar Publishing, 2012, Chapter13, pp. 302-325.

“Are Urban Transportation Benefits absorbed Fully by Land Values?”, (with H. Aviram), in A. Frenkel, P. Nijkamp, P. McCann (eds.) *Societies in motion: Innovation, Migration and Regional Transformation*, Cheltenham UK: Edward Elgar Publishing, 2012, Chapter 15, pp. 343-361

“Regional Innovation and Incubation”, (with A. Frenkel), in P. Cooke and others (eds.) *Handbook of Regional Innovation and Growth*, Edward Elgar Publishing, Cheltenham UK, 2011, Chapter 38, pp. 514-525.

"Israel's Nanotechnology Research Landscape: A Survey of Israeli Nanotechnology Capabilities and Technology Transfer Policies" (with Bob Rosenbaum and others) *Nanotechnology Law and Business*, Issue 4.1, 2008.

"Public vs. Private Technological Incubator Programs: Privatizing the Technological incubators in Israel" (with A. Frenkel and M. Miller) *European Regional Studies*, Vol 16, No 2, 2007, pp. 189-210.

"Modeling Joint Development of Light Rail Transit Stations and Land Use – The Case of the Proposed LRT in the Tel Aviv Metropolitan Area" (with A. Ferdman and S. Bekhor) in F. Bruinsma and others *Railway Stations and Urban Dynamic*, Berlin: Springer Verlag 2007, Chapter 18, pp. 385-413.

"Incorporating Agglomeration Economies in Cost Benefit Analysis: The Case of the Proposed Light-rail Transit in the Tel Aviv Metropolitan Area" (with H. Aviram), *Papers in Regional Science*, Vol. 84, (3) 2005, pp. 487-507.

"Agglomeration, Economic Geography and Regional Growth" (with P. McCann), *Papers in Regional Science*, Vol. 84, (3) 2005, pp. 301-309.

"Emerging Nodes in the Global Economy: Frankfurt and Tel Aviv Compared" D. Felsenstein, E. Schamp and A. Shachar (eds.). Book Review in: *Annals of Regional Science*, Vol. 39, 2005.

“Adopting Innovation in Agriculture: An Exploratory Analysis Using Discrete Choice model” (with S. Bekhor, and M. Cohen). A chapter in the book: *The New European Rurality - Strategies for Small Firms*. UK: Ashgate Economic Geography Series, 2005.

“R&D, Firm Size and Innovation: An Empirical Analysis” (with A. Frenkel), *Technovation*, Vol. 25, January 2005, pp.25-32.

“Privatization and Deregulation of Public Transport: Social and Economic Consequences”, in: *Regions, Land Consumption and Sustainable Growth*, O. Atzema, P. Rietveld and D. Shefer (eds.). UK: Edward Elgar Publishing, 2005, Chapter 7, pp. 125-135

“Public-Private Contributions to Regional Development and Land Use Planning”, in: *Regions, Land Consumption and Sustainable Growth*, O. Atzema, P. Rietveld and D. Shefer (eds.). UK: Edward Elgar Publishing, 2005, Chapter 1, pp. 1-13

“The Impact of Transportation Measures on the Location of Businesses in City Centers” (with Yoram Shiftan and Gali Abraham), *European Spatial Research Policy Journal*, Vol., 11, (2), 2004, pp. 119-132.

“Location, Agglomeration and Infrastructure” (with Philip McCann), *Papers in Regional Science: Golden Anniversary Issue*, Vol. 83 (1) (January 2004) pp. 177-196. Also published as a chapter in commemorative book: *Fifty Years of Regional Science*. J. G. M. Florax and D. A. Plane (eds). Germany: Springer. (Advances in Spatial Science series) Springer, Germany (2004).

“Alonso’s Location and Land Use (1964): Book Review”, *Papers in Regional Science: Golden Anniversary Issue*, Vol. 83 (1) (Jan 2004) pp. 66-68. Also published as a chapter in commemorative book: *Fifty Years of Regional Science*. J. G. M. Florax and D. A. Plane (eds). (Advances in Spatial Science series) Springer, Germany (2004).

“Economic Aspects of Multifunctional Land Use and Urban Regeneration”, published in *The Economic of Multifunctional Land Use*, P. Nijkamp, C. A. Rodenberg, R. Vreeker (eds.). The Netherlands: Shaker Publishing 2003.

“Public Policy, Locational Choice and Innovation Capability of High-Tech Firms: A Comparison Between Israel and Ireland” (with A. Frenkel and S. Roper), *Papers in Regional Science*, Vol. 82, (2) (2003), pp 203-221.

“Transportation Impact Statement (TIS) – A New Tool for Transportation and Land Use Planning”, (with E. Ben-Elia and Y. Shfitan), *Environment and Planning A* Vol. 35(2003), pp.2177 - 2190.

“The Role of Location and Regional Networks for Biotechnology Firms in Israel” (with others), *European Planning Studies, Special Issue on Biotechnology Clusters and Beyond*, Vol. 11 (7) (2003), pp. 823-840.

“Firm Characteristics, Location and Regional Innovation: A Comparison Between Israeli and German Industrial Firms” (with A. Frenkel, K. Koschatzky and G.H. Walter), *Regional Studies*, Vol. 35 (5) 2001, pp. 415-429.

“Innovation and Plant Characteristics of High Tech Firms in Israel and Ireland” (with A. Frenkel and S. Roper) Chapter 8, in: *Public Investment and Regional Economic Development*, D. Felsenstein, R. McQuaid, P. McCann and D. Shefer (eds.), UK: Edward Elgar Publisher (2001), pp.109-129.

“Targeting Industries for Regional Development in Israel and in Germany – A Comparative Study” (with A. Frenkel, K. Koschatzky and G.H. Walter), Chapter 13, in: *Regional Science Perspectives in Economic Analysis – A Festschrift in Memory of Benjamin H. Stevens*, M.L. Lahr and R.E. Miller (eds.). Amsterdam: Elsevier Science (2001), pp. 207-230.

“Regional Concentration and the Dynamics of Fast Growing Industries in Baden Wurttemberg and Israel” (with K. Koschatzky, A. Frenkel and G.H. Walter), *International Planning Study*, 2000, Vol. 5 (2), pp. 237-255.

“Structural Economic Change and Regional Development” (with P. Rietveld) Chapter 13 P. Rietveld and D. Shefer (eds.), *Regional Development in an Age of Structural Economic Change*, Aldershot UK: Ashgate Publishing Limited, 1999, pp. 255-267.

“Agglomeration and Industrial Innovation in Space” (with A. Frenkel). Chapter 4, in: P. Rietveld and D. Shefer (eds.). *Regional Development in an Age of Structural Economic Change*, Aldershot UK: Ashgate Publishing Limited, 1999, pp. 53-71.

“Transport Infrastructure and Regional Development” (with David Shefer). Chapter 9, in: P. Rietveld and D. Shefer (eds.). *Regional Development in an Age of Structural Economic Change*, Aldershot UK: Ashgate Publishing Limited, 1999, pp. 151-179.

“Gender Differences in Travel-to-Work Patterns After a Move to the Suburbs: An Israeli Case Study” (with R. Degani) *European Spatial Research Policy*, Vol. 5 (2) (1998), pp. 67-80.

"Speed Choice, Speed Variance, and Speed Limits: A Second Best Instrument to Correct for Road Transport Externalities," (with P. Rietveld), *Journal of Transport Economics and Policy*, (1998), Vol. 32, part 2, pp. 187-202.

“Local Milieu and Innovations: Some Empirical Results” (with A. Frenkel) *Annals of Regional Science*, (1998), Vol. 32 (1), pp. 185-200.

“Urban Transport Externalities and Pigouvian Taxes: A Network Approach” (with P. Nijkamp). Chapter 8, in: K.J. Button and E.T. Verhoef (eds.) *Road Pricing, Traffic Congestion and the Environment: Issues of Efficiency and Social Feasibility*, Aldershot, UK: Edward Elgar Publishing Limited, (1998), pp. 171-189.

“Neural Networks for Social Science Modelling: A Look at Travel Behavior” (with D. Shmueli and I. Salomon). Chapter 7, in: *Artificial Neural Networks in Transport Applications*, Himanen, V., Nijkamp, P. and Reggiani A. (Eds.), Avebury, UK Ashgate Publishing Co. (1998), pp. 151-169.

“Congestion and Safety on Highways: Towards an Analytical Model” (with P. Rietveld) *Urban Studies*, (1997) Vol. 34 (4), pp. 679-692.

“Generating and Evaluating Alternative Regional Development Plans” (with S. Amir, A. Frenkel and H. Law-Yone) *Environment and Planning B*, (1997) Vol. 15, pp. 7-22.

“Integration of Environmental Assessment Into the Regional Development Planning Process of the Galilee” (with S. Amir, A. Frenkel and H. Law-Yone and T. Trop) *Environmental Management*, (1997) Vol. 21 (1), pp. 59-68.

"Technological Innovation and Diffusion Models: A Review" (with A. Frenkel), Chapter in a book, titled *Innovative Behaviour in Space and Time*, C.S. Bertugila, S. Lombardo, P. Nijkamp (eds.), Berlin: Springer-Verlag (1997) Series in Advances in Spatial Science. Chapter 3, pp. 41-63.

“Neural Network Analysis of Travel Behavior: Evaluating Tools for Prediction”. (with D. Shmueli and I. Salomon) *Transportation Research C*, (1996) Vol. 4 (3), pp. 151-166.

"Road Capacity Driven Land Use Model (CADLUM)" (with Y. Gur and D. Magid) *Environment and Planning A*, (1996) Vol. 28, pp. 2227-2240.

"Modelling Regional Innovativeness and Innovation" (with A. Frenkel), *Annals of Regional Science*, (1996) Vol. 30, pp. 31-54.

"Congestion, Air Pollution & Road Safety in Urban Areas" *Accident Analysis and Prevention* (1994), Vol. 26, No. 4, pp. 501-509.

"High Technology Industries As a Vehicle for Regional Growth - The Israel's Peripheral Regions" (with E. Lambert Bar-El) *Environment & Planning C*, (1993) Vol. 11, pp. 245-261.

"Rural-to-Urban and Urban-to-Urban Migration Patterns in Columbia"(with L. Steinvortz), *Habitat International Journal* (1993) Vol. 17, No. 1, pp. 133-150.

"Location of High Technology Industries and Regional Development - The Israeli Case" *Review of Urban and Regional Development Studies* (1993) Vol. 5, pp. 206-219.

"The Galilee Development Plan" in Golani, Eldor and Garon (eds). *Planning and Housing in Israel in the Wake of Rapid Changes*, Israel Ministers of the Interior and Construction and Housing in collaboration with IFHP-International Federation of Housing and Planning for the 41st World Congress, Jerusalem, Israel (1992) pp. 123-130.

"A Critical Review of Macro Models for Road Accidents." *Accident Analysis and Prevention*, (with others). Special Issue. Vol. 23, No. 5 1991, pp. 379-400.

"High Technology Industries -- A Panacea for Peripheral Regions? The Evidence from Israel", in *Prospect and Retrospect for Regional Science*, D.E. Boyce, P. Nijkamp, D. Shefer (eds.) Germany: Springer-Verlag GmbH & Co. 1991, pp. 171-190.

"Estimating Household's Welfare Change with Hedonic Price Method." Chapter 12 in *Location and Labour Considerations for Regional Development*, F.J. Dietz, W. Heijman, D. Shefer, (eds). London. England: Avebury, Gower Publishing Co., 1991, pp. 197-211.

"Plan Evaluation Method: An Essay in Memory of Morris (Moshe) Hill." (with V. Tzubari). *Journal of Planning, Education and Research*, Vol 10, No. 1, Fall 1990, pp. 5-14.

"Evaluation Methods in Urban and Regional Planning: Theory and Practice." (with L. Kaess). *Town Planning Review*, Vol, 61, No. 1, 1990, pp. 75-88.

"Innovation, Technical Change and Urban Development; An Israeli Example." Chapter 7 in *Sustainability of Urban Systems: A Cross National Evolutionary Analysis of Urban Innovation*, Peter Nijkamp (ed) England, Aldershot: Avebury, Urban Europe Series, Gower Publishing Company. 1990, pp. 167-181.

"The Demand for Housing and Permanent Income in Indonesia." *Urban Studies*, Vol. 27, no. 2, 1990, pp. 259-272.

"Transportation, Communication and Mobility in Israel: An Overview," (with others). Chapter 17 in *Euromobile: Transport, Communication and Mobility in Europe* . P. Nijkamp, S. Reichman, M. Wegener (eds), England: Gower Publishers, 1990, pp. 223-234.

"Evaluation Methods in Urban and Regional Planning Theory and Practice," (with L. Kaess), in: *Evaluation Methods of Urban and Regional Plans: Retrospects and Prospects*, D. Shefer and H. Voogd (eds), Pion, London, 1990, pp. 99-115.

"The Evolution of Evaluation Methodology in the Work of Morris Hill," (with V. Tzubari), in: *Evaluation Methods of Urban and Regional Plans: Retrospects and Prospects*, D. Shefer and H. Voogd (eds) Pion, London, 1990, pp. 31-42.

"The Effect of Various Means of Communication on the Operation and Location of High-Technology Industries." *Informatics, High-Tech and Regional Development*, M. Giaoutzi and P. Nijkamp (eds), Avebury, Aldershot, UK 1988,168-181.

"Land Requirement for Public Transport facilities in Urban Areas: A Statistical Approach." *Journal of Advanced Transportation*, September 1987, pp. 95-115. (with A. Ceder).

"The Effect of Price Support Policies on Inter-Regional and Rural to Urban Migration in Korea, 1967-1980." *Journal of Regional Science and Urban Economics*, No. 3, 1987, 333-344.

"The Demand for Housing and Permanent Income in Indonesia." *Urban Studies* , Vol. 27, No. 2, 1990, pp. 259-272.

"Utility Changes in Housing and Neighbourhood Services for Households Moving into and out of Distressed Neighbourhoods", *Journal of Urban Economics*, Vol. 19, 1986, pp107-124.

"The Determinants of Household Migration Into and Out of Distressed Neighbourhoods" (with N. Primo). *Urban Studies*, Vol. 22, 1985, 339-347.

"Evaluation of a Public Transportation Level of Service Concept." (with A. Polus). *Journal of Advanced Transportation*, Vol. 18, No. 2, 1984, 135-144.

*Air Quality Analysis for Urban Transportation Planning*, by J. Horowitz, MIT Press, 1982, Book Review published in: *Environment and Planning A*, 1983.

"Neighborhood Deterioration: Causes, Consequences and Remedies." A chapter in: *Urban Development and Urban Renewal* , D. Soen (ed), UK 1982.

"Street Lighting Projects Selection: A Rational Decision-Making Approach." *SocioEconomic Planning Sciences* , VI. 16, 1982, 245-259. (with H. Stroumsa).

"Optimal Selection of Street-Lighting Projects in the City of Jerusalem." *Environment and Planning* , Vol. 9, 1982, 79-94. (with J. Stroumsa).

"Spatial Dynamic of Optimal Space-Time Development." Book Review by W. Isard and P. Liossatos. *European Journal of Operational Research*, Vol. 10, 1982, 215-216.

"The Delphi Method: A Decision-Making Tool for Street-Lighting Planning." *SocioEconomic Planning Sciences*, Vol. 15, No. 5, 1981, 263-276. (with J. Stroumsa).

"Air Quality Control, Industrial Location and Fuel Substitution." A chapter in *Advances in Environmental Science and Technology*, Vol. 10, J.N. Pitts, Jr. and R.1. Matcalf, (eds.), New York, NY., Wiley Interscience, Inc., 1980, 301-367. (with J. Guldmann).

"The Carmelit: Transit Characteristics and Mode Choice Determinants." *Traffic Quarterly*, Jan. 1978, 145-167. (with M. Buzi).

"Centralized Air Pollution Treatment and the Optimal Location of Industries." *Environment and Planning*, 1977, Vol. 9, 1121-1142. (with J. Guldmann).

"Optimal Plant Location and Air Quality Management under Indivisibilities and Economies of Scale." *Socio-Economic Planning Sciences Journal*, Vol. 11, 1977, 77-93. (with J. Guldmann).

"Stack Height as a Means for Air Quality Control: A Mathematical Programming Approach." *Journal of Environmental Management*, Vol. 4, No. 3, 1976, 241-249. (with J. Guldmann).

"Transport Investment Decisions with Bayesian Statistical Decision Theory." *Computers and Urban Society Journal*, Vol. 1, Nos. 2/3. 1975, 131-157.

"Mathematical Model of Plant Location in Developing Regions." *Environment and Planning*, Vol. 7, 1975, 251-262.

"Beit Shemesh as a Central Place, Its Sphere of Influence and Possible Means of Extending It." *Regional Studies*, Vol. 9, 1975, 193-202. (with J. Guldmann and H. Shear).

"The Optimal Use of Natural Resources - the Choice Between Preservation and Development." *The Journal of the Environment Systems*, Vol. 4, No. 4, 1975, 269-277.

"A Model of Air Quality Impact on Industrial Land Use Allocation." *London Papers in Regional Science*, Vol. 5, Pion Publications, London, 1975, 66-83. (with J. Guldmann).

"Has the Inter-Regional Gap in Israel Increased or Decreased?" *I.T.C.C. Review*, Vol. 4, No. 3, July 1975, 81-91.

"Mathematical Models of Industrial Plant Location and Pollution Abatement Strategies." *Environment and Planning*, Vol. 5, 1973, 577-588. (with J. Guldmann).

"Forecasting Industrial Air Pollution in the Haifa Bay Area with an Input-output Model." *Socio-Economic and Planning Sciences Journal*, Vol. 7, 1973, 397-406.

"Localization Economies and Urban Size - A Production Function Analysis." *Journal of Regional Science*, Vol. 13, No. 1, April 1973, 55-64.

"Comparable Living Costs and Urban Size - A Statistical Analysis." *Journal of the American Institute of Planners*, Vol. 36, No. 6, November 1970, 417-422.

## **RESEARCH PROJECTS AND REPORTS**

### **Completed with Reports (Selected)**

*Sustainable Development in Israeli Cities: The Case of the Joint Transportation-Land Use Planning* (with P. Plaut and G. Hazan) The Jerusalem Institute, 2008.

"*Estimating the Impact of Light Rail Transit on Land Values*" (with others) for NTA-Tel Aviv Metropolitan Mass Transit System, Center for Urban and Regional Studies, (Draft report of first stage 2007).

"*Sustainable Development in Israeli Cities: What is the Appropriate Policy? (the case of Transportation and Land- use Planning)*" (with others) The Jerusalem Institute for Israel Studies, Jerusalem (2007).

"*Planning for Bicycles Riders*" (with others). Center for Urban and Regional Studies, Technion – Israel Institute of Technology (2005).

"*Technological Incubators in Israel: Technological Policies in an Age of Privatization*" (with A. Frenkel and M.Miler). Center for Urban and Regional Studies, Technion – Israel Institute of Technology (2005).

"*Technology Transfer from University to Industry*" (with A. Frenkel) Sponsored by the Israel Academy of Science and Humanities. S. Neaman Institute for Advanced Science and Technology, Technion (2003).

IFTSE (*Israeli Financing Innovation Schemes for Europe*) research project sponsored by the European Union, 5<sup>th</sup> Framework R&D Program (collaborator), Final Report (2003).

"*University Technology Transfer- An International Survey of Current Practices*" (with A. Frenkel). Sponsored by the Israel Ministry of Culture, Science and Sport. S. Neaman Institute for Advanced Science and Technology, Technion (2003).

"*Evaluation of the Israeli Incubators Program and Projects within Them*", (with Amnon Frenkel), S. Neaman Institute for Advanced Science and Technology, Technion (2002 in Hebrew; 2003 in English).

"*Formulating Policies for the Transfer of New Technologies From Universities to Industry*", (with Amnon Frenkel), S. Neaman Institute for Advanced Science and Technology, Technion. Final Report 2002.



*"Master Plan and Development Plan for the Upper Galilee Regional Council"* (with A. Frenkel and others) (1999) (two volumes).

*"Spatial Diffusion of Innovation and Region Development/Growth in Israel and Germany"* (with others). A Four-year Research Grant by the Germany Israel Foundation (GIF) in collaboration with the Fraunhofer Institute for System and Innovation, in Karlsruhe, Germany, S. Neaman Institute for Advanced Science and Technology, Technion (1998).

*"Master Plan and Development Plan for the Upper Galilee Regional Council"* (with A. Frenkel and others) 1994-1997.

*"The Ramification of Amalgamating Two Medium Sized Cities: The Case of Ramle-Lod in Israel"* (with O. Aaron). Center for Urban and Regional Studies, Technion (May, 1993).

*"The Effect of Spatial Job-Housing Mismatch on Travel Patterns in the Suburbs of the Tel-Aviv Metropolitan Area"* (with I. Efrat) Center for Urban and Regional Studies, Technion (June, 1993).

*"Development Plan for the Northern Region in Israel"*. Two Volumes - Volume I: Objectives, Policies and Alternative Spatial Development, 500 p. Volume II: Development Plan for the Years 1992-1995, 300 p. Principal Investigator (with others). Centre for Urban and Regional Studies, Technion , August 1992.

*"Identification and Analysis of the Factors Affecting the Patterns of Road Accidents in Israel, 1951-1987"*. Research Report No. 89-140, Transportation Research Institute, Technion, July 1989.

*"Safety Belt Use in Urban Area: Analysis of Usage Patterns and Safety Evaluation"* (with others). Research Report No. 89-145, Transportation Research Institute, Technion, August 1989.

*"Estimating Demand Functions for Housing, Neighbourhood and Environmental Characteristics in the Haifa Region"*, (with V. Tzubari), Research Report #45, Center for Urban and Regional Studies, Technion, July 1989.

*"The Availability of High Technology Industries for Israel's Peripheral Regions"*, (with E. Bar-El), Research Report #119, Center for Urban and Regional Studies, Technion, May 1989.

Evaluation Methods in Urban and Regional Planning, (with L. Kaess), Research Report #120, Center for urban and Regional Studies, Technion, May 1989.

Job Creation in Development Towns in Israel, (with A. Frenkel), the Samuel Neaman Institute for Advanced Studies in Science and Technology, Technion, May 1989.

Highway Network Capacity in Metropolitan Area as a Constraint on the Spatial Distribution of Activities, (with others), Research Report #89-134, Transportation Research Institute, Technion, January 1989.

Benefits of Morbidity Reduction from Air Pollution Control. Research Grant by the United States - Israel Bi-National Science Foundation (BSF), (with Prof. M. Shechter, Haifa University, Prof. E. Mills, Princeton University, Prof. L. Lave, Brookings Institute and Carnegie-Mellon University), 1988.

Economic Impacts of Regional Irrigation Development Projects in LDCS: The Narayani Zone Irrigation Development Project in Nepal (with S.K. Shrestha), Research Report #118, Center for Urban and Regional Studies, Technion, June 1988.

Estimating Willingness-to-Pay for Housing Qualities in the Metropolitan fringe (with R. Degani), Research Report #40 Center for Urban and Regional Studies. Technion, June 1988.

Determinants of Inter-Regional Migration in Columbia, (with L. Steinvortz), Center for Urban and Regional Studies, Technion, November 1987.

Generating Alternatives Socio-Economic Development Policies for the Development Towns in Israel. (First Stage: current state), March 1987, (with A. Frenkel). The Samuel Neaman Institute for Advanced Studies in Science and Technology, Technion, March 1987.

Estimating the Potential Demand for Commuter Train Service in the Haifa Northern Region, (with others), Research Report #87-109, Transportation Research Institute, Technion, December 1986.

The Effect of Advanced Means of Communication on the Operation and Location of High-Technology Industries in Israel, (with A. Frenkel). The Samuel Neaman Institute for Advanced Studies in Science and Technology, Technion, January 1986.

The Impact of Agricultural Price Support Policies on Inter-Regional and Rural-to~ Urban Migration in South Korea: 1976-1980. Center for Urban and Regional Studies, Technion, 1985.

Five-Year Shelter Program for the madras Metropolitan Area - India. Urban and Regional Economics Division, Development Economics Dept., The world Bank, Washington, DC, January, 1982.

Land Allocation for Public Transport Facilities in Urban Areas, (with A. Ceder and Y. Barovsky), Transportation Research Institute, Technion, 1981.

Factors Affecting Urban Mode Choice: The Carmelit in Haifa - A Case Study, (with M. Blecher), Transportation Research Institute, Technion, 1981.

Reasons and Causes Affecting Household Decision to Migrate From and Into Distressed Neighbourhoods, (with N. Primo), Research Report #4, The Samuel Neaman Institute for Advanced Studies in Science and Technology, Technion, 1981.

Level of Service in Public Transport, (with A. Polus and M. Komov), Transportation Research Institute, Technion, 1981.

Mobility and Stability of Households in Four Rehabilitated Neighbourhoods in Tel Aviv, (with E. Borukhov), Research Report #2 The Samuel Neaman Institute for Advanced Studies in Science and Technology, Technion, 1981.

A Proposal to Augment Disposable Income of Large families (with 4 or More Children Through Income Tax Reduction (Tax Rebates), (with A. Danino). A proposal submitted to the Ministry of Finance, Jerusalem, Israel, 1981.

Neighbourhood Rehabilitation in Israel, (with others), Research Report #1, The Samuel Neaman Institute for Advanced Studies in Science and Technology, Technion, 1979.

Siting a New Industrial Park, (preliminary study with others), Research Project conducted for "Rafael" Israel Defense Industries, 1979.

Office location for the Small Business Administration, Final Report submitted to the US Small Business Administration, SBA, Washington, DC, May 1978.

Participation of jurisdictions in the Section 8 Housing Program. Report submitted to the US Department of Housing and Urban Development, HUD, Office of Policy Development & Research, Washington, DC 1977-

The Impact of Governmental Regulations on Industrial Location and Regional Growth: A Methodological Approach. Report submitted to the Regional Economic Analysis Division, BEA Dept. of Commerce, Washington, DC August 1977.

Forecasting the Demand for Land in the Proposed Large-Scale Shoreline Development Project. Report submitted to the Economic Development Corp, Ltd., Haifa, Israel, September 1976.

Large Families in Overcrowded Homes: Retrospect and Prospect. (Suggested Alternative Solutions), Israel, August 1976, (with A. Danino).

Economic Costs of Environmental Control: The Optimal Spatial Configuration of Industrial Plant Location in a Growing Urban Region. Final Report submitted to the Ford Foundation (Grant No. 8, 1976. (with J. Guldmann).

**SUPERVISED OVER 80 MASTERS AND PhD THESES**