

**Prof. Emeritus Zilla Sinuany-Stern**

February, 2017

**CURRICULUM VITAE AND LIST OF PUBLICATIONS****Personal Details**

Name: Zilla Sinuany-Stern

Marital status: Married +3

Work address: Department of Industrial Engineering and Management  
 Ben-Gurion University of the Negev  
 Beer Sheva, 84105, Israel  
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Home address: Max Born Street, Ramot  
 Beer Sheva, 84834, Israel  
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**Education**

1966 - 1969 B.A., Tel-Aviv University, Economics and Statistics  
 1969 - 1971 Teaching Certificate: Tel-Aviv University, Mathematics  
 1970 - 1973 M.A., Tel-Aviv University, Statistics  
 1974 - 1978 Ph.D., Case Western Reserve University, Dept. of Operations Research,  
 School of Management

**Employment History**

2016-present Visiting scholar, Cass Business School, City Univ. of London, UK  
 2016-present Professor Emeritus, Department of Industrial Engineering and  
 Management, Ben-Gurion University of the Negev (BGU)  
 1995 – 2016 Full Professor, tenured, Department of Industrial Engineering and  
 Management, Ben-Gurion University of the Negev (BGU)  
 2015 Visiting scholar, UADE, Buenos Aires (2 weeks)  
 2014-2015 Visiting scholar, NEU, Boston (4 months)  
 2011 Visiting scholar, University of Melbourne (2 months)  
 2009 - 2013 Visiting scholar, University of Vienna (5 months)  
 2009 Visiting scholar, University of Graz (1 month)  
 2008 – 2009 Visiting scholar, RUTCOR, Rutgers University (3 months)  
 2008 Visiting scholar at Kansas State University (3 months)  
 2000 – 2008 Rector (VP. for Academic Affairs), Ariel University Center (AUC)  
 1988 – 1994 Associate Professor, tenured, Dept. of Ind. Eng. & Mgmt., BGU  
 1988 – 1990 Adjunct Professor, Hebrew University, School of Business  
 1984 – 1988 Senior Lecturer, tenured, Dept. of Ind. Eng. & Mgmt., BGU  
 1984 – 1985 (Sabbatical) National Center for Higher Education Management

- Systems, Boulder, Colorado
- 1979 – 1980 Adjunct Lecturer, Bar-Ilan University, Department of Mathematics
- 1978 – 1984 Lecturer, BGU, Dept. of Ind. Eng. & Mgmt., BGU
- 1974 – 1978 Lecturer, Case Western Reserve University
- 1971 – 1974 Lecturer and Teaching Assistant, BGU, Statistics and OR,  
Departments of Economics, Statistics and Mathematics

### **Awards, Honors, Fellowships**

- 1969-1971 Fellowship and Teaching Assistant, Tel Aviv University, Statistics
- 1974 -1978 Fellowship and Graduate Assistant, Case Western Reserve University  
(CWRU), School of Management, and Travel Grant (1978)
- 1978 Prize Competition, Operations Research Society of America,  
Educational Science Section, one of the three finalists
- 1978 Omega Rho, the International Honorary Society of Operations Research
- 2010 ORSIS Prize on excellent paper with D. Alper
- 2015-2016 **Chair - Sir John and Lady Cohen Professor of Business and Industrial  
Management**

### Positions in academic administration at BGU

- 2010-13, 2015-6 Member, Promotion Committee, Dept. of Ind. Eng. & Mgmt
- 2012- 2013 Member, Promotion Committee, School of Engineering
- 2009-2012 Head of the Doctorate Program Committee, Dept. of Ind. Eng. & Mgmt
- 2009 Member of the Search Committee for the Dean of the School of Mgmt
- 2009 Member of the University Committee for Selecting Excellent Projects
- 2003-2007 Member, Promotion Committee, Faculty of Eng. Sci.
- 1998-2001 Member, promotion committee, School of Management
- 1996-2000 Head of Promotion committee, Dept. of Ind. Eng. & Mgmt
- 1996-2000 Member of the Univ. Board of Directors (elected by Senate)
- 1996-2000 Member of the Research Authority Council (elected by Senate)
- 1996-1998 Member of the Council of the Faculty of Social Sciences (elected by Senate)
- 1996-2000 Member of the Management committee, Ind. Eng. & Mgmt
- 1992-1994 Head, Department of Ind. Eng. and Mgmt
- 1989-1991 Head, Graduate Studies Committee, Ind. Eng. & Mgmt
- 1987-1988 Coordinator of the Departmental Seminar, Ind. Eng. & Mgmt
- 1986-1990 Acting Head (during the summers), Ind. Eng. & Mgmt
- 1982-1984 Head of the Graduate Studies Committee, Ind. Eng. & Mgmt
- 1979-1982 Advisor of the Industrial Management Graduate Program

### Positions and professional functions in the Council for higher Education

- 2012- Present Member of the Council for Higher Education in Israel (CHE)
- 2012- Present Chair of the Quality Assurance Committee, CHE
- 2012- Present Member of the Accreditation committee of Science & Engineering, CHE
- 2013-present Member of the Policy and development committee

- 2013-present Member of the Accreditation committee
- 1999-2000 Member of the Strategic Planning committee, CHE, headed by Grossman
- 1995-2007 Committee Member of the CHE for evaluating various Academic Programs in several institutions of HE.

Other professional functions in Israel

- 2005-2012 Member of the Board of Directors of the Haredi College in Jerusalem
- 2005-2012 Member of the Board of Directors of Ariel University Center (AUC)
- 1995-2000 Member of the Committee for Rethinking Higher Education in Israel: Academic Administration Excellency, Israel Council for Higher Education (CHE), headed by Nehemia Lev-Zion
- 1996-2000 **President** of ORSIS (Operations Research Society of Israel)
- 1992-1996 **Vice President** of ORSIS
- 1991-2005 Representative of ORSIS in EURO
- 1992-2005 Representative of ORSIS in IFORS (Intl. Fed. of Operations Research)
- 1983-1984 Council member of ORSIS
- 1980, 1995 Representative of BGU in the Sfaradic Fed. Ph.D. Grants' Committee

International professional functions

- 2008- 2012 Member of EDSM (EURO Distinguished Service Medal) Jury
- 2012-2013 Chair of EDSM Jury
- 2000-2004 **Vice President** of EURO (European Association of Operational Research)
- 1976-1978 President of the Israel Student Organization, Cleveland area
- 1975-1978 Co-chairperson of the ORSA/TIMS (Operations Research Society of America) student chapter in Cleveland, Ohio

Session chair at conferences

- 1983 Applications of Computers in Industry, Beer Sheva
- 1990 Fifth Conference of Industrial Engineering and Management, Hertzlia
- 1990 International Federation of Operations Research (IFORS), Athens
- 1991 ORSIS, Tel-Aviv
- 1992 TIMS/EURO, Helsinki
- 1993 IFORS, Lisbon (organized 1 session)
- 1994 EURO, Glasgow
- 1995 EURO, Jerusalem (organized 5 sessions)
- 1996 IFORS, Vancouver (organized 3 sessions)
- 1997 INFORMS/EURO, Barcelona (organized 2 sessions)
- 1998 INFORMS, Tel-Aviv
- 1998 EURO, Brussels
- 1999 IFORS, Beijing
- 2000 EURO, Budapest
- 2000 ORSIS, Eilat
- 2000 11th Conference of Industrial Engineering and Management, Beer Sheva

- 2001 EURO, Rotterdam
- 2001 ORSIS, Zicron Yaakov
- 2002 IFORS, Edinburgh
- 2002 ORSIS, Shefaim
- 2002 12th Conference of Industrial Engineering and Management, Tel Aviv
- 2003 The 1<sup>st</sup> Israeli Industrial Engineering Research Meeting, Tel-Aviv
- 2004 ORSIS, Ashkelon
- 2005 Israeli Industrial Engineering Research Meeting, Tel-Aviv
- 2008 15th Conference of Industrial Engineering and Management, Tel-Aviv
- 2009 EURO, Bonn (invited to organize a session)
- 2010 ORSIS, Nir Etzion
- 2010 EURO, Lisbon (invited to organize a session)
- 2011 Intercultural Ties in Higher Education and Academic Teaching, Ariel
- 2012 IE, Tel Aviv
- 2012 EURO, Vilnius (invited to organize a session)
- 2015 IE, Tel Aviv

Conference organizing/program committees

- 1984 Chair, ORSIS, Beer Sheva
- 1992 Chair, ORSIS, Ashkelon
- 1994 ORSIS, Mitzpe Ramon
- 1995 Chair, EURO, Jerusalem
- 1996 ORSIS, Tel-Aviv
- 1997 INFORMS/EURO, Barcelona
- 1998 10th Conference of Industrial Engineering and Management, Haifa
- 1998 INFORMS, Tel-Aviv
- 1999 ORSIS, Dead Sea
- 2000 ORSIS, Eilat
- 2000 EURO, Budapest
- 2001 EURO, Rotterdam
- 2002 IFORS, Edinburgh
- 2003 EURO/INFORMS, Istanbul
- 2004 EURO, Rhodes
- 2006 Contemporary Issues in Higher Education, Yekaterinburg
- 2007 Contemporary Issues in Higher Education, Ariel
- 2008 11th Conference of Industrial Engineering and Management, Tel-Aviv
- 2009 Contemporary Issues in Higher Education, Ariel
- 2010 ICIL 2010 Brazil-Logistics and Sustainability
- 2011 Intercultural Ties in Higher Education and Academic Teaching
- 2012 ICIL 2012 Croatia – International Conference on Industrial Logistics
- 2013 DEA Workshop on Productivity Regulation and Transportation, Research Workshop the Israel Science Foundation (ISF)
- 2014 ICIL Croatia – International Conference on Industrial Logistics

- 2016 ICIL Poland – International Conference on Industrial Logistics  
 2018 Chair of Organizing committee, ICIL Israel - International Conference on Industrial Logistics

Professional consulting

- 2008-2009 Police – Evaluating the project "City with no violence": using DEA  
 2000-2003 Public Utilities Authorities—Electricity, State of Israel, Efficiency of Electric companies via DEA, and benchmark analysis  
 1978-1979 Commission for Higher Education, Indiana, USA, planning and forecasting students' enrollment and constructing computerized cash-flow management system  
 1975-1978 Cuyahoga Community College, Cleveland, OH, planning and forecasting students' enrollment and budget planning

Editor or member of editorial board of scientific or professional journals

- 1995-1999, 2009- 2014 Special volumes editor, Annals of Operations Research (with Sherman)  
 1997-1999 Guest Editor, European Journal of Operations Research (with Slovinski)  
 1991- Present Member of the International Advisory Board of the Journal of Operational Research Society

Referee for scientific journals

- Annals of Operations Research  
 European Journal of Operations Research  
 Transactions of Operations Research  
 International Journal of Productions Research  
 The Journal of Operational Research Society  
 OMEGA  
 Management Science  
 Operations Research  
 Journal of Advanced Transportation Models  
 Socio-Economic Planning Science  
 Computers and Operations Research  
 Central European Journal of Operations Research

Membership in professional/scientific societies

- 1975-1980 ORSA (Operations Research Society of America)  
 1975- INFORMS (The Institute of OR & MS previously TIMS)  
 1979- ORSIS (Operations Research Society of Israel)  
 1979 The Israel Society of Statistics  
 1982 Decision Sciences

### **Courses taught:**

Operations Research 1, 2 - undergraduate, BGU and AUC  
Linear Programming- undergraduate, BGU and Bar-Ilan  
Queuing Theory - undergraduate, Bar-Ilan  
Simulation 1-2 - undergraduate, BGU and Bar-Ilan  
Quantitative Methods 1-3 - graduate, BGU and CWRU  
Statistics 1-2 - undergraduate, BGU  
Applied Statistics - undergraduate, BGU  
Forecasting - graduate, BGU  
Quantitative Models in Academic Administration, graduate, BGU  
Final Project Seminar - undergraduate and graduate, BGU  
Production Planning and Control - undergraduate and graduate, Hebrew Univ.  
Optimization Models in Operations Research, graduate, BGU and AUC  
Decision Analysis, BGU, Ahva College, and Sapir College

### **Research students**

1980 - 1983 M. Abrahamzada, M.Sc. (with S. Barnoon)  
1982 - 1984 Y. Lugasi, M.Sc. (with A. Mehrez)  
1984 - 1987 M. Danino, M.Sc. (with E. Ben-Baruch)  
1987 - 1989 B. Keren, M.Sc. (with D. Golenko-Ginzburg)  
1990 - 1991 A. Baraboy, M.Sc. (with A. Mehrez)  
1992 - 1993 S. Biran, M.Sc. (with I. David)  
1993 - 1994 Z. Sfaradi, M.Sc. (with E. Stern)  
1995 - 2000 L. Gal, M.Sc. (with L. Friedman and A. Rosenfeld)  
1996 - 1997 Y. Hadad, M.Sc.(with A. Mehrez)  
1995 - 1998 V. Kats, Ph.D. (with D. Golenko-Ginzburg), Ph.D.  
1998 - 2000 Y. Hadad, Ph.D.(with A. Mehrez), Ph.D.  
1999 - 2000 A. Ben Yair, M.Sc. (with Y. Casuto)  
1999 - 2000 R. Strassberg Atad, M.Sc. (with L. Friedman)  
2000 - 2002 O. Sushard, Post. Doc. (with L. Friedman)  
2000 - 2004 Y. Maman, M.Sc. (with M. Balaban)  
2000 - 2001 H. Etinger, M.Sc., (with L. Friedman)  
2004 - 2006 V. Rivalkin M.Sc. (with L. Friedman and Y. Hadad)  
2002 - 2007 E. Braude, Ph.D. (with G. Oron)  
2009 - 2010 D. Alper, M.Sc. (with D. Shinar)  
2013- 2016 S. Cohen-Kadosh M.Sc.  
2016 - S. Cohen-Kadosh Ph.D. (with Y. Bitan)

**Areas of research:** Operations Research; Management Science; Decision Analysis; Industrial Engineering, Operations Management; Forecasting; Public Sector; Health Management; Higher Education.

## **SCIENTIFIC PUBLICATIONS**

### **Collective volumes**

1. Z. Sinuany-Stern, Proceedings of ORSIS annual conference, 1984.
2. R. Slowinski, and Sinuany-Stern Z. Guest editors, Special Issue of EURO 1995, European Journal of Operations Research, 1997.
3. Z. Sinuany-Stern (1999) Special Volume on Reliability and Maintenance in Production Control. Guest Editor, Annals of Operations Research.
3. A. Reichel, and Sinuany-Stern Z. (2002) Co-editors of a Special Issue, Journal of Management Sciences and Regional Development, Issue 4.
4. N. Davidovich, Sinuany-Stern Z., Starichenko B. E., and Zinigrad M. (2007) Proceedings of the 4th International Conference on Contemporary Issues in Higher Education: Pedagogical Aspects of Emerging Methodologies in Higher Education. Editors, AUC.
5. Z. Sinuany-Stern and Sherman D. (2014) Special Volume on: Operations Research in the Public Sector and Non Profit Organizations. Editors, Annals of Operations Research, Vol. 221.
6. Z. Sinuany-Stern (2018) Handbook on OR/MS in Higher Education, Springer (in preparation)

### **Articles in refereed journals**

1. Z. Sinuany-Stern, and A. Mehrez. Simulating an Integrated Energy System. Simulation, Vol. 42, pp. 131-139, 1982.
2. A. Mehrez, Sh. Mossery, and Z. Sinuany-Stern. Project Selection in a Small R&D Laboratory. R&D Management, Vol. 12, pp. 169-174, 1982.
3. A. Mehrez, and Z. Sinuany-Stern. Resource Allocation to Interrelated Projects”, Water Resources Research, Vol. 18, No. 3, p. 462, 1982.
4. Z. Sinuany-Stern. Break-even and equilibrium analyses in university financial planning. Computers Environment and Urban Systems, Vol. 8(2), p.109-119, 1983.
5. A. Mehrez, and Z. Sinuany-Stern. Resource Allocation to Interrelated Risky Projects Using a Multi-Attribute Utility Function. Management Science, Vol. 29, pp. 430-439, 1983.
6. A. Mehrez, and Z. Sinuany-Stern. An Interactive Approach for Project Selection. Journal of the Operational Research Society, Vol. 34, pp. 621-626, 1983.
7. A. Mehrez, and Z. Sinuany-Stern, “Resource Allocation to Interrelated Projects, Water Resources Research, Vol. 19, No. 4, pp. 876-880, 1983.
8. A. Mehrez, and Z. Sinuany-Stern. A Note on Multiplicative Utility. Journal of Operational Research Society, Vol. 34, pp. 1123-1124, 1983.
9. Z. Sinuany-Stern, “Cost Simulation Models for University Budgeting”, Computer Environment Urban Systems, Vol. 8, pp. 211-216, 1983.
10. A. Mehrez, A. Stulman, and Z. Sinuany-Stern. The One Dimensional Single Facility Maximin Distance Location Problem. Journal of Regional Science, Vol. 23, Vol. 2, pp. 233-239, 1983.

11. Z. Sinuany-Stern, "A Financial Planning Model for a Multi-Campus College", *Socio-Economic Planning*, Vol. 18, pp. 135-142, 1984.
12. Z. Sinuany-Stern. A Network Optimization Model for Budget Allocation in Multi-Campus University. *Journal of the Operational Research Society*, Vol. 35, pp. 749-757, 1984.
13. Z. Sinuany-Stern, A. Mehrez, and A. El Boher. A Comparative Economic Analysis of Closed Integrated Electric Power Systems. *International Journal of Production Research*, Vol. 22, pp. 95-107, 1984.
14. Z. Sinuany-Stern, A. Mehrez, D. Chi, and N. Cop. A Simulation Model of a Solar Energy System for Heating Water. *Computers and Industrial Engineering*, Vol. 8, pp. 181-191, 1984.
15. Y. Lugasi, A. Mehrez, and Z. Sinuany-Stern. Nuclear Power Plant Selection: A Case Study. *Nuclear Technology*, Vol. 69, No. 1, pp. 7-13, 1985.
16. Y. Elazari, D. Bar-Chi, and Z. Sinuany-Stern. Menu Planning Via Computer Simulation. *Computers Environment and Urban Systems*, Vol. 10, pp. 81-87, 1985.
17. A. Mehrez, Z. Sinuany-Stern, and A. Stulman. A Single Facility Location Problem with a Weighted Maximin-Minimax Rectilinear Distance. *Computers and Operations Research*, Vol. 12, pp. 51-60, 1985.
18. E. Busnach, A. Mehrez, and Z. Sinuany-Stern. A Production Problem in Phosphate Mining. *Journal of the Operational Research Society*, Vol. 36, p. 285-288, 1985.
19. Z. Sinuany-Stern, M. Ebrahimzada, and Sh. Bar-Noon. A Simulation of a Multi-Item Inventory System. *Simulation*, Vol. 45, Vol. 3, pp. 115-121, 1985.
20. Sh. Ladany, and Z. Sinuany-Stern. Curtailment of Artificial Attribute Sampling Plans. *International Journal of Production Research*, Vol. 23, pp. 847-856, 1985.
21. Z. Sinuany-Stern, and Y. Teomi. Multi-Objective Scheduling Plans for Security Guards", *Journal of the Operational Research Society*, Vol. 37, pp. 67-77, 1986.
22. M. Rosenblatt, and Z. Sinuany-Stern. A Discrete Efficient Frontier Approach to the Plant Layout Problem", *Material Flow*, Vol. 3, pp. 277-281, 1986.
23. A. Mehrez, Z. Sinuany-Stern, and A. Stulman. An Enhancement of the Deznar-Wesolowsky Algorithm for Single-Facility Location with Maximum of Rectilinear Distance. *Journal of the Operational Research Society*, Vol. 37, No. 10, pp. 971-977, 1986.
24. Z. Sinuany-Stern, N. Finger, and E. Kligler. An Optimal Forest Thinning Policy: A Simulation Approach. *Computer Environment Urban Systems*, Vol. 11, No. 4, pp. 181-189, 1986.
25. Z. Sinuany-Stern, and A. Mehrez. Discrete Multi-Attribute Utility Approach to Project Selection. *Journal of the Operational Research Society*, Vol. 38, No. 10, pp. 1133-1139, 1987.
26. Z. Sinuany-Stern, and M. Rosenblatt. Budgeting in Hierarchical Systems under Uncertainty. *IIE Transaction*, Vol. 19, pp. 2-12, 1987.
27. Z. Sinuany-Stern. Ranking of sport Teams via the AHP. *The Journal of Operational Research Society*, Vol. 39, No. 7, pp. 661-667, 1988.
28. D. Golenko-Ginzburg, and Z. Sinuany-Stern. Production Control with Variable

- Speeds and Inspection Points. *International Journal of Production Research*, Vol. 27, No. 4, pp. 629-638, 1989.
29. D. Golenko-Ginzburg, Z. Sinuany-Stern, and L. Friedman. Feeding Parts with Random Production Speed to an Assembly Line. *Engineering Costs and Production Economics*, Vol. 16, pp. 91-96, 1989.
  30. M. Rosenblatt, and Z. Sinuany-Stern. Algorithms for Generating the Discrete Efficient Frontier to the Capital Budgeting Problem. *Operations Research*, Vol. 37, No. 3, pp. 384-394, 1989.
  31. E. Stern, and Z. Sinuany-Stern. A Behavioral-Based Simulation Model for Urban Evacuation. *Regional Science Association*, Vol. 66, No. 1, pp. 87-103, 1989.
  32. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern. Determining Control Points of a Production System under a Chance Constraint. *Engineering Costs and Production Economics*, Vol. 18, pp. 139-144, 1989.
  33. Z. Sinuany-Stern, and D. Golenko-Ginzburg. A Physical Simulation of a Two-Stage FMS. *Computer and Industrial Engineering*, Vol. 18 No.4 pp. 535-545, 1990.
  34. Z. Sinuany-Stern. The Need for Institutional Research. *Higher Education Policy*, Vol. 4, No. 4, pp. 57-60, 1991.
  35. A. Mehrez, Z. Sinuany-Stern, and A. Stulman. An Enhancement of the Drezner-Weslowsky Algorithm. *Journal of Operational Research society*, Vol. 43, No. 4, pp. 373-374, 1992.
  36. Z. Sinuany-Stern, D. Golenko-Ginzburg, and B. Keren. On-Line Production Control using the EVPI Approach. *European Journal of Operations Research*, Vol. 67, pp. 344-357, 1993.
  37. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern. Semiautomatic Production Systems under Disturbances. *Journal of Operational Research Society*, Vol. 44, No. 2, pp. 161-168, 1993.
  38. D. Golenko-Ginzburg, and Z. Sinuany-Stern. Hierarchical control of Semi-automated Production Systems. *Production Planning and Control*, Vol. 4, No. 4, pp. 361-370, 1993.
  39. Z. Sinuany-Stern. A Network Optimization Model for Budget Planning in Multi-objective Hierarchical Systems. *Journal of Operational Research Society*, Vol. 44, No. 3, pp. 297-308, 1993.
  40. Z. Sinuany-Stern, and E. Stern. The Role of Traffic Factors and Route Choice Behavior in Simulating Urban Evacuation. *Socio-Economic Planning*, Vol. 27, pp. 97-108, 1993.
  41. Z. Sinuany-Stern, and H. Yelin. Forecasting Computer Resources. *Computers & Operational Research*, Vol. 20, No. 5, pp. 477-484, 1993.
  42. Z. Sinuany-Stern. Replacement Policy under Partially Observed Markovian Deterioration. *International Journal of Production Economics*, Vol. 29, pp. 159-166, 1993.
  43. A. Mehrez, Z. Sinuany-Stern, and A. Stulman, "Response to a good enhancement with logical weaknesses", *Journal of Operational Research Society*, Vol. 44, pp. 106-106, 1993.

44. Z. Sinuany-Stern, and A. Amitai. Project Evaluation via AHP. *Production Planning and Control*, Vol. 5, No. 5, pp. 337-341, 1994.
45. Z. Sinuany-Stern, A. Mehrez, and A. Barboy. Academic Departments Efficiency Via DEA. *Computers and Operations Research*, Vol. 21, No. 5, pp. 543-556, 1994.
46. Z. Sinuany-Stern, and I. Weiner. The Cutting Problem using Two Objectives. *Journal of Operational Research Society*, Vol. 45, No. 2, pp. 231-236, 1994.
47. Z. Sinuany-Stern, A. Mehrez, T. Arad-Geva, and S. Binyamin. On the Location of a Hospital in a Rural Region: The Case of the Negev. *Location Science*, Vol. 3, No. 4, pp. 255-266, 1995.
48. Z. Sinuany-Stern, A. Mehrez, and A. Barboy. Corrigendum: *Computers and Operations Research* Vol. 23, No. 5, p. 513, 1996.
49. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern. Production Control: Comparison between Constant and Stochastic Speeds. *Production Planning and Control*, Vol. 7, No. 2, pp. 176-183, 1996.
50. D. Golenko-Ginzburg, Z. Sinuany-Stern, and V. Kats. A Multilevel Decision Making System with Multiple Resources for Controlling Cotton Harvesting. *International Journal of Production Economics*, Vol. 46-47, pp. 55-63, 1996.
51. A. Mehrez, Z. Sinuany-Stern, T. Arad-Geva, and S. Binyamin. On the Implementation of Quantitative Facility Location Models; the Case of a Hospital in a Rural Region. *Journal of Operational Research Society*, Vol. 47, pp. 612-625, 1996.
52. Z. Sinuany-Stern, E. Stern, Z. Sfaradi, and E. Holm. Effect of Commuters Behavior on Congested Network Performance: A Micro Simulation Approach. *European Journal of Operations Research*, Vol. 96, pp. 455-470, 1997.
53. A. Mehrez, Z. Sinuany-Stern, T. Arad-Geva, and S. Binyamin. Integrating Qualitative and Quantitative Approaches for Locating a Hospital in a Rural Area. *Journal of the Institute of Middle East Studies*, Vol. 1, pp. 1-13, 1996.
54. E. Stern, Z. Sinuany-Stern, Z. Spharadi, and E. Holm. Congestion-Related Information and Road Network Performances. *Journal of Transport Geography*, Vol. 4, No. 3, pp. 169-178, 1996.
55. Z. Sinuany-Stern, I. David, and S. Biran. An Efficient Heuristic for a Partially Observable Markov Decision Process of Machine Replacement. *Computers & Operational Research*, Vol. 24, pp. 117-126, 1997.
56. R. Slowinski, Z. Sinuany-Stern. Research reviews tutorials. *European Journal of Operations Research*, Vol. 99, pp. 1-2, 1997.
57. L. Friedman, and Z. Sinuany-Stern. Ranking the Decision Making Units via the DEA and the Canonical Correlation Analysis. *European Journal of Operations Research*, Vol. 100, No. 3, pp. 629-637, 1997.
58. Z. Sinuany-Stern, L. Friedman, Y. Asraf, and S. Isaac. Measuring Operational Efficiency Applied to Israeli Towns. *Industrial Management*, Vol. 40, pp. 38-41, 1998 (in Hebrew).
59. Z. Sinuany-Stern, and L. Friedman. Rank Scaling in the DEA Context. *Studies in Regional & Urban Planning*, Vol. 6, pp. 135-144, 1998.

60. Z. Sinuany-Stern, and L. Friedman. Rank Scaling Units: The DEA and Discriminant Analysis of Ratios. *European Journal of Operations Research*, Vol. 111, No. 3, pp. 470–477, 1998.
61. L. Friedman, and Z. Sinuany-Stern. Combining Ranking Scales and Selecting Variables in the DEA Context: The Case of Industrial Branches. *Computers & Operations Research*, Vol. 25, No. 9, pp. 781–791, 1998.
62. Z. Sinuany-Stern, E. Stern, and Z. Spharadi. Commuters' Behavior under Varying Network Patronage. *International Transactions of Operations Research*, Vol. 6, pp. 89–105, 1999.
63. Z. Sinuany-Stern. Reliability and Maintenance in Production Control. *Annals of Operations Research*, Vol. 91, pp. 1–10, 1999.
64. I. David, L. Friedman, and Z. Sinuany-Stern. A Simple Suboptimal Algorithm For System Maintenance under Partial Observability. *Annals of Operations Research*, Vol. 91, pp. 25–40, 1999.
65. Z. Sinuany-Stern, A. Mehrez, and Y. Hadad\*. An AHP/DEA Methodology for Ranking Decision Making Units. *International Transaction of Operations Research*, Vol. 7, pp. 109–124, 2000.
66. N. Adler, Z. Sinuany-Stern, and L. Friedman. Review of Ranking Methods in the Data Envelopment Analysis Context. *European Journal of Operation Research*, Vol. 140, No. 2, pp. 249-265, 2002.
67. L. Friedman, and Z. Sinuany-Stern. Measuring the Efficiency of Outpatient Clinics via DEA: A Case Study. *Journal of Management Science and Regional Development (MSRD) Issue 4*, pp. 37-46, 2002.
68. Y. Hadad, L. Friedman, Z. Sinuany-Stern, and A. Mehrez. DEA Super Efficiency Multistage Ranking. *Computer Modeling and New Technologies*, Vol. 7, No. 1, pp. 37-46, 2003.
69. A. Mehrez, Y. Hadad, and Z. Sinuany-Stern. Effect of Variations on Decision-Making Units with Respect to Output, Output Estimated by Production Function and Output Differences. *Central European Journal of Operations Research*, Vol. 11, No. 1, pp. 351-367, 2003.
70. Y. Hadad, Z. Sinuany-Stern, and A. Mehrez. DEA Efficiency in Relation to Production Functions: A Simulation Study. *Communications in Dependability and Quality Management*, Vol. 6, No. 3, pp. 91-103, 2003.
71. Z. Sinuany-Stern & Y. Hadad, "The Analytical Hierarchy Process: Selection of Optimal Alternative", *Machines and Industry*, Vol. 90 pp.84-86, 2004 (in Hebrew).
72. Z. Sinuany-Stern, M. Bar-Eli, and Y. Israeli. Application of the Analytic Hierarchy Process for the Evaluation of Basketball Teams. *International Journal Sport Management and Marketing*, Vol. 1, |No. 3, pp. 193-207, 2005.
73. A. Mehrez, L. Friedman, Z. Sinuany-Stern, and M. Bar-Eli. Optimal Threshold in Multi-Stage Competitions. *International Journal of Sport Management and Marketing*, Vol.1 No. 3, pp. 215-238, 2005.
74. L. Friedman, Z. Sinuany-Stern, and A. Mehrez. Optimal Threshold in Symmetric Multi-stage Multi-player Competitions. *International Journal of Sport Management*

- and Marketing Vol. 1, No. 3, pp. 239-254, 2005.
75. L. Friedman, Y. Hadad, and Z. Sinuany-Stern. Fitted Bounds on the Weights for Feasible Consistent CE Evaluations in the DEA. *Communication in Dependability and Quality Management*, Vol. 8, No. 1, 53-63, 2005.
  76. N. Davidovitch, M. Zinigrad, and Z. Sinuany-Stern. On Academic Teaching in Russian Universities. *Al Hagova Journal of Teaching in Higher Education*, Vol. 5, pp. 60-61, 2006 (in Hebrew).
  77. N. Davidovitch, and Z. Sinuany-Stern. The Quality of Academic Performance of Women and Men: the Case of the College of Judea and Samaria", *Social Issues in Israel* Vol. 3, pp. 21-44, 2007 (in Hebrew).
  78. Z. Sinuany-Stern, and N. Davidovitch. The Relationship between Teaching and Research Activities of Faculty: Case Study of College of Judea and Samaria. *Pedagogic Education, Information of Moscow State Lomonosov University*, Volume 21, No. 3, pp. 81-90, 2008 (in Russian).
  79. Y. Hadad, L. Friedman, Z. Sinuany-Stern, A. Ben-Yair. Ranking method based on the difference between weighted output and input. *Computer Modelling and New Technologies*, Vol.12, No.3, 55–65, 2008.
  80. D. Chernechovsky, L. Friedman, Z. Sinuany-Stern, and Y. Hadad. Hospitals Efficiency in Israel via Data Envelopment Analysis. *Economics Quarterly*, Vol. 56, No. 2, pp. 119-142, 2009 (in Hebrew).
  81. Z. Sinuany-Stern, V. Kushnir-Berdugo, and D. Alper. Testing Police efficiency via DEA", in *Collection on Police Subjects*, Ed. M. Sher, pp. 83-93, 2009 (in Hebrew).
  82. Z. Sinuany-Stern, and N. Davidovitch. Profile of Students from Judea and Samaria in Contrast to Students from Other Parts of Israel. *Judea and Samaria Research Studies*, Vol. 18, pp. 403-412, 2009.
  83. N. Davidovitch, Soen, D. and Z. Sinuany-Stern. The Race after Excellency in Academia: Between Research and Teaching. *New Directions - Journal of Judaism and Zionism*, Vol. 20, pp. 101-110, 2009 (in Hebrew).
  84. N. Davidovitch, Z. Sinuany-Stern, and D. Soen. Cultural Capital and the Riches of Manna: Integration of Immigrant Scientists in Israel Academia. *Problems of Education in the 21<sup>st</sup> Century*, Lithuania: Scientific Methodical Centre. ISSN 1822-7864. 20(20):118-134, 2010.
  85. N. Davidovitch, D. Soen, and Z. Sinuany-Stern. History of Success: Repatriation and Immigration of Scientists in world of Israel science (in Israel Universities) (1989-2009). *The International Higher Education Academy of Sciences*. vol. 1 (51). pp. 83–106, Information of Moscow State Lomonosov University. ISSN: 1815-0624, 2010 (in Russian).
  86. N. Davidovitch, D. Soen, and Z. Sinuany-Stern. Were Russian scientists immigrants absorbed in academia – A case study testifying a positive direction. *New Directions: Journal for Zionism, Judaism, Policy, Society, and Culture*, Vol. 23, pp.188-199, 2010 (in Hebrew).
  87. N. Davidovitch, D. Soen, and Z. Sinuany-Stern. Performance measures of academic faculty – a case study. *Journal of Further and Higher Education*, 35 (3), pp. 355-373, 2011.

88. N. Davidovitch, Z. Sinuani-Stern, and Y. Iram. The Cost of Success: Some Consequences of Increase in Availability to Higher Education in Israel. *Proceedings Of the international Higher Education Academy of Sciences*. Moscow State Lomonosov University, 1(59). 112-134. ISSN: 1815-0624, 2012 (in Russian).
89. N. Davidovitch, Z. Sinuany-Stern, D. Soen. Performance measures of scientists' immigration and integration in the academe 1989-2009. *Old roots in new soil – the adjustment of immigrants in Israel in the new millennium*, S. Lissitsa and Y. Bokek – Cohen. (Eds.)Tel Aviv: Alpha Publishing. ISBN 978-965-91944-0-7. (pp. 170-185), 2012 (in Hebrew).
90. N. Davidovitch, Z. Sinuany-Stern, and Y. Iram The price of success: Some consequences of increased access to higher education in Israel. *Cross-Cultural Communication* 8 (2), p. 101-111, ISSN: 1712-8358, 2012.
91. N. Davidovitch, Z. Sinuany-Stern, Y. Iram. Paradoxes in Higher Education: Universities versus Academic Colleges. Special journal issue: Community Colleges and Two-Year Post-Secondary Institutions Worldwide. *Research in Comparative and International Education*, 8(2). 132-148 ISSN: 1745-4999, (2013).
92. N. Davidovitch, M. Byalsky, D. Soen, and Z. Sinuany-Stern. The Cost Of More Accessible Higher Education: What Is The Monetary Value Of The Various Academic Degrees? A Case Study, *Contemporary Issues in Education Research Journal*, 6 (1), 37-58, (2013).
93. N. Davidovitch, Z. Sinuani-Stern. Access to higher education – the struggle over quality and resources and breaking the university monopoly. *Kivunim Hadashim: Journal of Issues of Zionism, Judaism, Policy, Society, and Culture* (in Hebrew), 28, 174-186, 2013.
94. Y. Hadad, L. Friedman, V. Rybalkin, and Z. Sinuany-Stern. The relationship between DEA efficiency and the type of production function, the degree of homogeneity, and error variability. *Central European journal of Operations Research*, Vol. 21, No. 3, pp. 595-607, 2013.
95. N. Davidovitch, and Sinuani-Stern, Z. Compensation criteria in higher education in Israel and elsewhere: Evaluation of research and teaching outcomes. *Journal of International Education Research*, 10 (4) 279-294, 2014.
96. Z. Sinuany-Stern, Quadratic Model for Allocating Operational Budget in Public and Nonprofit Organizations. *Annals of Operations Research*, Vol. 221, No. 1, pp. 357-376, 2014.
97. Z. Sinuany-Stern, D. H. Sherman, Operations Research in the public sector and nonprofit organizations. *Annals of Operations Research*, Vol. 221, No. 1, 1-8, 2014.
98. D. Alper, D. Shinar, Z. Sinuany-Stern. Evaluating the efficiency of local municipalities in providing traffic safety using data envelopment analysis. *Accident Analysis and Prevention*, Vol. 78, 39-50, 2015.
99. E. Braude, G. Oron, G. Hauser, Z. Sinuany-Stern, Water Allocation between the Agricultural and the Municipal Sectors under Scarcity: A Financial Approach Analysis. *Water Resources Management*, Vol. 29 (10) 3481-3501, 2015.
100. Z. Sinuany-Stern, S. Cohen-Kadosh, L. Friedman. The Relationship between the Efficiency of Orthopaedic Wards and the Socio-Economic Status of their Patients. *Central European Journal of Operations Research*, on-line, 2016, 24 (4):853-876.
101. Z. Sinuany-Stern, O. Cohen, N. Shahkoochi. Performance of hospitals operating departments: the effect of logistics parameters. *International Journal of Logistic Systems Management*, 2016, 25(1)3-19.

102. N. Davidovitch, Z. Sinuany-Stern, E. Druckman. Assessing Research and Teaching Performance in Israel's Higher Education System: The Case Study of Ariel University. *Creative Education*, 2016, 7, 1604-1614.

### **Papers in Conference Proceedings**

1. A. Mehrez, Sh. Mossery, and Z. Sinuany-Stern, "Project Selection in a Small University R & D Laboratory", in Eds. N. Finger, and M.J. Rosenblatt, *Selected Issue in Industrial Engineering, Proceedings of the Second Industrial Engineering Conference – 1981*, Unipress Academic Publications, pp. 109-E – 125-E, 1981.
2. Z. Sinuany-Stern, and Y. Teomi, "A Model for Workers Scheduling", in Eds. N. Finger and A. Mehrez, "Applications of Computers in Industry", Unipress Academic Publications (in Hebrew), pp. 131-144, 1983.
3. Z. Sinuany-Stern, and M. Rosenblatt, "Budgeting in Hierarchical Systems", *Selected Issues in Industrial Engineering, Proceedings of the Third IE Conference, 1984*, Eds. N. Finger, Unipress Academic Publications (in Hebrew), 1984.
4. Z. Sinuany-Stern, and D. Golenko-Ginzburg, "An Improved Algorithm for Production Control under Variable Speeds", *Proceedings of the International Symposium on Reliability and Quality Control, Paris, ACTA Press, Calgary*, pp. 227-230, 1987.
5. Z. Sinuany-Stern, D. Golenko-Ginzburg, A. Redlich, R. Lahat, and Moshe Dana, "The Control of a Flexible Manufacturing System with Variable Speeds and Inspection Points", in Ed. K. E. Wichmann, "Simulation in Computer Integrated Manufacturing", *Proceedings of the European Simulation Multi-conference, Vienna, 1987*.
6. D. Golenko-Ginzburg, J. Kreimer, and Z. Sinuany-Stern, "Using Simulation Modeling for Planning and Control of Multilevel Industrial Plants", in Ed. K. E. Wichmann, "Simulation in Computer Integrated Manufacturing", *Proceedings of the European Simulation Multi-conference, Vienna, Austria, 1987*.
7. Z. Sinuany-Stern, A. Redlich, Z. Shwartzman, and Sh. Amrani, "An Analytical Model for Selecting an Educational Robot", the Ninth Israel Convention On CAD/CAM and Robotics, pp. 2.1.1.1-6, Tel Aviv (in Hebrew) 1987.
8. D. Golenko-Ginzburg, Z. Sinuany-Stern, M. Gez., and R. Fimstein, "An Improved Algorithm for the Problem of Production Control under Variable Speeds and Inspection Points", *Abstracts of the First International Conference on Industrial and Applied Mathematics (ICIAM), Paris*, pp. 79-80, 1987.
9. D. Golenko-Ginzburg, and Z. Sinuany-Stern, "A Multilevel Production Control Model for FMS with Disturbances," *Proceedings of the International Conference on Computer Integrated Manufacturing, Troy, N.Y., the Computer Society of the IEEE*, pp. 81-84, 1988.
10. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern, "Production Control under Random Disturbances", *The Fifth Conference of Industrial Engineering and Management - Integrated Systems, the Plant of the Future, Conference Proceedings*, Ed. N. Finger, Beer Sheva, E-1.1.2, pp. 1-4, 1988.

11. Z. Sinuany-Stern, and D. Golenko-Ginzburg, "An Application of a Two-Stage Algorithm to Control an FMS". The Fifth Conference of Industrial Engineering and Management - Integrated Systems, the Plant of the Future, Conference Proceedings Ed. N. Finger, Beer Sheva, pp. 1-3, 1988.
12. Z. Sinuany-Stern, D. Golenko-Ginzburg, and B. Keren, "A Static Adaptive Approach for Solving a Dynamic Problem of Production Control", ESC 89 Proceedings of the 3rd European Simulation Congress, Ed. Ph. Geril, Edinburgh, Scotland, pp. 508-511, 1989.
13. D. Golenko-Ginzburg, Z. Sinuany-Stern, and L. Friedman, "Upon One Control Problem for Semi-automated Production Systems", in Ed. E.A. Puente, INCOM '89, Reprints of IFAC/IFORS Symposium on Information Control Problems in Manufacturing Technology, Vol. 1, Madrid, Spain, pp. 207-211, 1989.
14. Z. Sinuany-Stern, and E. Stern, "A Simulation Model for Urban Evacuation", Ed. M. Barad, Proceedings of the 6th Conference of Industrial Engineering, pp. 1-3, (in Hebrew) 1990.
15. Z. Sinuany-Stern, and H. Yelin, "Analysis of the Consumption of Hardware Resources in a Computer System" in Proceedings of the Fifth Annual Conference of the MIS, Tel-Aviv, pp. 55-68, 1991(in Hebrew).
16. Z. Sinuany-Stern and A. Amitai, "The Post Evaluation of an Engineering Project via AHP", PICMT '91 Technology Management, pp. 275-277, 1991.
17. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern, "Random vs. Stochastic Speeds in Optimal Timing of Production Control", the Seventh Conference of Industrial Engineering and Management, Conference Proceedings, Haifa, 1992, (in Hebrew).
18. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern, "Upon One Production Control Problem under Chance Constraint", Society of Manufacturing Engineers (SME), Tel-Aviv, pp. 448-457, Tel-Aviv, 1994.
19. Z. Sinuany-Stern, and D. Golenko-Ginzburg, "A Heuristic Algorithm in Production Control under Variable Speeds", Society of Manufacturing Engineers (SME), Tel-Aviv pp. 81-89, 1994.
20. L. Friedman, Z. Sinuany-Stern, and A. Cohen, "The Evaluation of the Efficiency of Local Municipality in Israel: Application of the DEA", Ed. S. Ladany, the Eighth Conference of Industrial Engineering and Management, Proceedings, Beer Sheva, E 3.4.4., pp. 1-8, 1994.
21. D. Golenko-Ginzburg, Z. Sinuany-Stern, and V. Kats, "Hierarchical Production Control with Multiple Resources and Targets", Ed. S. Ladany, the Eighth Conference of Industrial Engineering and Management, Proceedings, Beer-Sheva, E 1.3.3, pp. 1-5, 1994.
22. D. Golenko-Ginzburg and Z. Sinuany-Stern, "A Multilevel Decision Making System for Controlling Cotton Harvesting on Large Areas", the 8-th International Working Seminar on Production Economics, Vol. 3, pp. 405-418, Innsbruck, Austria, 1994.
23. L. Friedman, and Z. Sinuany-Stern, "Measuring the Efficiency of the Industrial Branches in Israel", Ed. Y. Arazi, Proceedings of the 9th. Conference of Ind. Eng.

- and Mgmt, Herzliya, 2.2.1., pp. 1-3, 1996.
24. A. Mehrez, L. Friedman, Z. Sinuany-Stern, and M. Bar-Eli, "Programming in Elite Sport: Threshold Optimization in Multistage Sport Games", Ed. M. Bar-Eli, Int. Soc. of Sport Psych, Proceedings, Wingate, pp. 1-3, 1997.
  25. L. Friedman, Z. Sinuany-Stern, Y. Asraf, and I. Shimon, "Ranking Israeli Towns via DEA", Ed. I. Gilad, Proceedings, the 10th Conference of Ind. Eng., Haifa, pp. 188-192, 1998.
  26. Z. Sinuany Stern, N. Adler, and L. Friedman, "Summary Review of Ranking Methods in the DEA Context", Proceedings, EURO XVII, Budapest, Hungary, pp. 57-59, 2000.
  27. L. Friedman, and Z. Sinuany-Stern, "Measuring the Efficiency of Clinics", Ed. S. Ladany, Proceedings of the 11th Industrial Engineering and Management Conference, Ben-Gurion University, pp. 164-168, 2000.
  28. Z. Sinuany-Stern, L. Friedman, and R. Strassberg-Atad, "Benchmarking of Companies via DEA", Ed. S. Ladany, Proceedings of the 11th Industrial Engineering and Management Conference, Ben-Gurion University, pp. 280-284, 2000.
  29. Z. Sinuany-Stern, L. Friedman and A. Avishur, "DEA versus Economic Indicators", Ed. S. Ladany, Proceedings, the 11th Industrial Engineering and Management Conference, Ben-Gurion University, pp. 265-269, 2000.
  30. A. Ben Yair, Z. Sinuany-Stern, and L. Papis, "Reliability Cost-Optimization model", Ed. S. Ladany, Proceedings, the 11th Industrial Engineering and Management Conference, Ben-Gurion University, pp. 300-304, 2000.
  31. Z. Sinuany-Stern, L. Friedman, N. Moses, S. Sheftel, and A. Devir, "Measuring the Efficiency of Fish Farm via DEA", the 12th Conference of Industrial Engineering, Tel-Aviv, pp. 274-279, 2002.
  32. L. Friedman, Y. Hadad, and Z. Sinuany-Stern, "SDEA Method in the DEA Context", Ed. D. Sinreich, the 13th Industrial Engineering & Management Conference, ORTRA, Tel Aviv, pp. 42-45, 2004.
  33. Z. Sinuany-Stern and N. Davidovitch, "The Relationship between Teaching and Research Activities of Faculty: Case Study of College of Judea and Samaria", Aspects of Higher Education, Meeting organized by URSPU and USTU, Yekaterinburg, Russia, pp. 16-22, 2005.
  34. L. Friedman, D. Chernechovsky, Y. Hadad, and Z. Sinuany-Stern, "Case Mix Index in Hospitals' Efficiency by Size and Ownership", the 14th Conference of Industrial Engineering and Management, Tel-Aviv, 2006.
  35. Z. Sinuany-Stern, and N. Davidovitch, "Performance Quality of Males and Females in the Academia - A Case Study: The College of Judea and Samaria", the 3<sup>rd</sup> Research and Educational International Conference Contemporary Problems of Higher Education, Yekaterinburg, Russia, pp. 15-31, 2006.
  36. Y. Hadad, L. Friedman, and V. Rybalkin, Z. Sinuany-Stern, "The Relation Between Production Functions and DEA Efficiency", in Eds. I. Ben-Gal, E. Menipaz and D. Sinreich, The 3rd Israeli Industrial Engineering Research Meeting – Current

- Research Issues, ORTRA, Tel-Aviv, pp. 100-105, 2007.
37. N. Davidovitch and Z. Sinuany-Stern, "Male and Female Performance in Academia: The Case of the College of Judea and Samaria", Conference on Enhancing Teaching in Higher Education, Ort Braude College of Engineering, Poster, 2007.
  38. E. Braude, S. Houser, Z. Sinuany-Stern, and G. Oron, "Financial Model for the Assignment of Water between the Agricultural Environmental Sector and Municipal Industrial Sector", Eds. I. Ben-Gal, E. Menipaz and D. Sinreich (eds.), the 15th Industrial Engineering & Management Conference, ORTRA, Tel-Aviv, pp. 59-61, 2008.
  39. N. Davidovitch, and Z. Sinuany-Stern, "Performance Measures of Academic Faculty – Case Study", the 5th International Scientific Conference Innovation in Higher Education, Yekaterinburg, Russia, pp. 152-172, 2008.
  40. Z. Sinuany-Stern, N. Davidovitch, and D. Soen, "Integration of Immigrant Scientists in Israeli Academia", in Proceedings of the 6th International Conference on Excellence in Academia, Ariel, Israel, pp. 272-301, ISBN 978-965-7376-21-8, 2009.
  41. Z. Sinuany-Stern, Davidovitch, N. Attributes of students at the Ariel University Center – A comparison between students from Judea and Samaria and students from other parts of Israel. Proceedings of the 18<sup>th</sup> Conference on Judea and Samaria Studies (pp. 403-412), 2009.
  42. D. Alper, Z. Sinuany-Stern, and V. Berdugo-Kushnir, "Evaluating the efficiency of Police stations in Israel via DEA", Proceedings of the 16-th conference of Industrial Engineering and Management, Naveh, Ben-Gal, Menipaz, Dror, and Uri, Ortra Tel-Aviv, 2010.
  43. Z. Sinuany-Stern, and N. Davidovitch "Paradoxes in higher education: Universities versus academic college", intercultural Ties in Higher Education and Academic Teaching Conference, Ariel p. 21-53, 2011.
  44. Z. Sinuany-Stern, N. Kristal, H. Shachaf, D. Chernichovski, and L. Friedman, "Efficiency of hospitals in Israel during 1999-2009". Menipaz, IE conference, Ortra, Tel-Aviv, 2012.
  45. Z. Sinuany-Stern, and D. Alper, "Efficiency of cars vs. Manpower in police stations", Proceedings of International Conference of Industrial Logistics, 392-397, 2012 (peer reviewed).
  46. Z. Sinuany-Stern and N. Davidovitch, Training teachers for higher education, proceeding of the International Conference on Higher Education, Ortra, Tel-Aviv, 2014.
  47. Cohen-Kadosh, and Z. Sinuany-Stern, The relationship between the socio-economic index and efficiency of orthopedic wards via data envelopment analysis, 18th Industrial Engineering and Management Conference, Tel Aviv, 2014.
  48. Z. Sinuany-Stern, O. Cohen, and N. Shahkoohi, Measuring the Efficiency of Hospitals Operating Department. Proceedings of International Conference of Industrial Logistics, Brac, Croatia, 2014 (peer reviewed).
  49. Z. Sinuany-Stern, and L. Friedman, Statistical Analysis in the DEA context. In

- P. Lein, I. Frenkel and L. Khvatskin (eds.), Beer Sheva, Israel, February 15-18, 2016, pp. 365 - 374, IEEE CPS, 978-1-4673-9941-8/16, DOI 10.1109/SMRLO.2016.65
50. Davidovitch, N. Sinuany-Stern, Z. Druckman, E. (2016). Assessing Research and Teaching Performance in Israel's Higher Education System. In. Davidovitch, N. Gross, Z. Slobodianiuk, A., & Ribakov Y. (Eds.). *Quality, Mobility and Globalization in the Higher Education System: A Comparative Look at the Challenges of Academic Teaching*. Chapter 1. (pp. 3–10). New York, NY: Nova Science. ISBN: 978-1-63484-986-9.
51. Z. Sinuany-Stern, V. Kushnir-Berdugob, and D. Alper (2016) *Logistics Factors Effecting Police Station Efficiency*. ICIL International Conference on Industrial Logistics, Poland.

## Reports

1. Z. Sinuany, "Check Clearing Department: Summary Report", Cleveland Trust Bank, Cleveland, Ohio, 1975.
2. Z. Sinuany, "Student Survey Analysis", Office of Educational Research, Cuyahoga Community College, Cleveland, Ohio, 1976.
3. Z. Sinuany, "Enrollment Projections", Office of Educational Research, Cuyahoga Community College, Cleveland, Ohio, 1976.
4. Z. Sinuany, "Faculty Workload Model", Office of Educational Research, Cuyahoga Community College, Cleveland, Ohio, 1976.
5. Z. Sinuany and Catherine Cameron, "A Mathematical Model for Estimating Priorities of Goals and Programs", Office of Management and Budget, Cuyahoga Community College, Cleveland, Ohio, 1977.
6. Z. Sinuany, "Indiana Participation in Post-Secondary Education" – National Comparison, State of Indiana Commission for Higher Education, 1978.
7. I. Ben Efraim and Z. Sinuany, "Optimal Layout of Storage Units of Phosphates in Oron", Report submitted to the Management of the Phosphates Plant in Oron, 1979.
8. Z. Sinuany, "Indiana Higher Education Enrollment Projections," 1979-1990, State of Indiana Commission for Higher Education, 1979.
9. J. Pliskin, E. Stern, S. Moses, Z. Sinuany-Stern, J. Kasten and H. Reuven, "Potential for Developing Health Industries in the Negev", Report submitted to Negev Development Committee, Ministry of Finance, Israel, (in Hebrew) 1991.
10. M. Tzur, Z. Sinuany-Stern, L. Friedman, R. Shtrassberg-Atad, Y. Baumer and N. Ben-Aderet, "International Benchmarking Survey", Public Utilities Authorities, Electricity, State of Israel, 2000.
11. Z. Sinuany-Stern and N. Ben-Aderet, "Electric Companies' Efficiency: International comparison", The Israeli Electric Authorities, 2004.
12. D. Chernechovsky, Z. Sinuany-Stern, and L. Friedman, "Hospital Efficiency in Israel using DEA", The Institution of Public Health Policy, 2006.
13. Z. Sinuany-Stern, and D. Alper, "Police Stations Efficiency via Data Envelopment Analysis", Report for the Police Headquarters, 2008.

14. N. Davidovitch, Z. Sinuany-Stern, and D. Soen (2009). "Immigration and Absorption of Scientists in Israeli Academia (1989-2009)", pp. 1-76 Alpha Publishing, 76 pages (in Hebrew and Russian).

### **Present Research**

1. Emergency services utilization (with Y. Bitan)
2. Hospitals efficiency
3. Higher Education planning (with N. Davidovitz)
4. Water Planning (with G. Oron)
5. Handbook: OR/MS in Higher Education, Springer publication, 2018

### **Meetings, Invited Lectures and Abstracts**

1. Z. Sinuany, "Enrollment Forecasting Models for a Multi-Campus Community College", ORSA/TIMS Meeting, Miami Beach, FL, 1976
2. Z. Sinuany, "Forecasting Student Enrollment", School of Business, Columbia University, NY, 1977
3. Z. Sinuany, "Financing Planning Models for Universities", School of Business, University of Pittsburgh, PA, 1977
4. Z. Sinuany, "Dynamic Planning Model for Multi-Campus Community College", ORSA/TIMS Meeting, San Francisco, CA, 1977
5. Z. Sinuany, "A Mathematical Model for Estimating Priorities of Goals and Programs", American Educational Research Association, Special Interest Group for Community College Research, Annual Meeting, Columbus, OH, 1977
6. Z. Sinuany, "A Network Operation Model for Multi-Year Budget Allocation in a Multi-Campus Institution Using Multiple Goals", **Prize Competition of the Educational Science Section of ORSA (was one of the three finalists)**, New York, N.Y., 1978
7. Z. Sinuany, "Management Science Models in Higher Education Planning", Department of Operations Research, Case Western Reserve University, Cleveland, OH, 1979
8. Mehrez, Sh. Mossery, and Z. Sinuany-Stern, "Project Selection in a Small University R & D Laboratory", in eds. N. Finger, and M.J. Rosenblatt, Selected Issue in Industrial Engineering, Proceedings of the Second Industrial Engineering Conference – 1981, Unipress Academic Publications, 1981.
9. Z. Sinuany-Stern, and Yehuda Teomi, "A Model for Workers Scheduling", in eds. N. Finger and A. Mehrez, "Applications of Computers in Industry", Unipress Academic Publications (in Hebrew), 1983.
10. Z. Sinuany-Stern, and M. Rosenblatt, "Budgeting in Hierarchical Systems", Selected Issues in Industrial Engineering, Proceedings of the Third IE

- Conference, 1984, Eds. N. Finger, Unipress Academic Publications (in Hebrew), 1984.
11. Z. Sinuany-Stern, and D. Golenko-Ginzburg, "An Improved Algorithm for Production Control under Variable Speeds", Proceedings of the International Symposium on Reliability and Quality Control, Paris, ACTA Press, Calgary, pp. 227- 230, 1987.
  12. Z. Sinuany-Stern, D. Golenko-Ginzburg, A. Redlich, R. Lahat, and Moshe Dana, "The Control of a Flexible Manufacturing System with Variable Speeds and Inspection Points", in Ed. K. E. Wichmann, "Simulation in Computer Integrated Manufacturing", Proceedings of the European Simulation Multi-conference, Vienna, 1987.
  13. D. Golenko-Ginzburg, J. Kreimer, and Z. Sinuany-Stern, "Using Simulation Modeling for Planning and Control of Multilevel Industrial Plants", in ed. K. E. Wichmann, "Simulation in Computer Integrated Manufacturing", Proceedings of the European Simulation Multiconference, Vienna, Austria, 1987.
  14. Z. Sinuany-Stern, A. Redlich, Z Shwartzman, and Sh. Amrani, "An Analytical Model for Selecting Educational Robot", the Ninth Israel Convention on CAD/CAM and Robotics, pp. 2.1.1.1-6, Tel Aviv, (in Hebrew) 1987.
  15. D. Golenko-Ginzburg, Z. Sinuany-Stern, M. Gez., and R. Fimstein, "An Improved Algorithm for the Problem of Production Control under Variable Speeds and Inspection Points", Abstracts of the First International Conference on Industrial and Applied Mathematics (ICIAM), Paris, pp. 79-80, 1987.
  16. D. Golenko-Ginzburg, and Z. Sinuany-Stern, "A Multilevel Production Control Model for FMS with Disturbances," Proceedings of the International Conference on Computer Integrated Manufacturing, Troy, N.Y., the Computer Society of the IEEE, pp. 81-84, 1988.
  17. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern, "Production Control under Random Disturbances", the Fifth Conference of Industrial Engineering and Management - Integrated Systems, the Plant of the Future, Conference Proceedings, Ed. N. Finger, Beer Sheva, E-1.1.2, pp. 1-4, 1988.
  18. Z. Sinuany-Stern, and D. Golenko-Ginzburg, "An Application of a Two Stage Algorithm to Control an FMS", the Fifth Conference of Industrial Engineering and Management - Integrated Systems, the Plant of the Future, Conference Proceedings Ed. N. Finger, Beer Sheva, pp. 1-3, 1988.
  19. Z. Sinuany-Stern, D. Golenko-Ginzburg, and B. Keren, "A Static Adaptive Approach for Solving a Dynamic Problem of Production Control", ESC 89 Proceedings of the 3rd European Simulation Congress Ed. Ph. Geril, Edinburgh, Scotland, pp. 508-511, 1989.
  20. D. Golenko-Ginzburg, Z. Sinuany-Stern, and L. Friedman, "Upon One Control Problem for Semi-automated Production Systems", ed. E.A. Puente, INCOM '89, Reprints of IFAC/IFORS Symposium on Information Control Problems in Manufacturing Technology, Vol. 1, Madrid, Spain, p. 207-211, 1989.

21. Z. Sinuany-Stern, and E. Stern, "A Simulation Model for Urban Evacuation", Ed. M. Barad Proceedings of the 6th Conference of Industrial Engineering, pp. 1-3, (in Hebrew) 1990.
22. Z. Sinuany-Stern, and H. Yelin, "Analysis of the consumption of hardware resources in a computer system" in Proceedings of the Fifth Annual Conference of the MIS, Tel-Aviv, pp. 55-68, 1991(in Hebrew).
23. Z. Sinuany-Stern and A. Amitai, "The post evaluation of an engineering project via AHP", PICMT '91 Technology Management, pp. 275-277, 1991.
24. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern, "Random vs. Stochastic Speeds in Optimal Timing of Production Control", the seventh Conference of Industrial Engineering and Management, Conference Proceedings, Haifa, (in Hebrew) 1992.
25. L. Friedman, D. Golenko-Ginzburg, and Z. Sinuany-Stern, "Upon One Production Control Problem under Chance Constraint", Society of Manufacturing Engineers (SME), Tel-Aviv, pp. 448-57, Tel-Aviv, 1994.
26. Z. Sinuany-Stern, and D. Golenko-Ginzburg, "A Heuristic Algorithm in Production Control under Variable Speeds", Society of Manufacturing Engineers (SME), Tel-Aviv pp. 81-89, 1994.
27. L. Friedman, Z. Sinuany-Stern, and A. Cohen, "The Evaluation of the Efficiency of Local Municipality in Israel: Application of the DEA", Ed. S. Ladany, the Eighth Conference of Industrial Engineering and Management, Proceedings, Beer-Sheva, E 3.4.4., pp. 1-8, 1994.
28. D. Golenko-Ginzburg, Z. Sinuany-Stern, and V. Kats, "Hierarchical Production Control with Multiple Resources and Targets", Ed. S. Ladany, the Eighth Conference of Industrial Engineering and Management, Proceedings, Beer-Sheva, E 1.3.3, pp. 1-5, 1994.
30. D. Golenko-Ginzburg and Z. Sinuany-Stern, "A Multilevel Decision Making System for Controlling Cotton Harvesting on Large Areas", the 8-th International Working Seminar on Production Economics, Vol. 3, pp. 405-418, Innsbruck, Austria, 1994.
31. L. Friedman, and Z. Sinuany-Stern, "Measuring the Efficiency of the Industrial Branches in Israel", Ed. Y. Arazi, Proceedings of the 9-th. Conference of Ind. Eng. and Mgmt, Herzliya, 2.2.1., pp. 1-3, 1996.
32. A. Mehrez, L. Friedman, Z. Sinuany-Stern, and M. Bar-Eli, "Programming in Elite Sport: Threshold Optimization in Multistage Sport Games", ed. M. Bar-Eli, Int. Soc. of Sport Psych, Proceedings, Wingate, pp. 1-3, 1997.
33. L. Friedman, Z. Sinuany-Stern, Y. Asraf, and I. Shimon, "Ranking Israeli Towns via DEA", Ed. I. Gilad, Proceedings, the 10th Conference of Ind. Eng., Haifa, pp. 188-192, 1998.
34. Z. Sinuany-Stern, and L. Friedman "Intertemporal Efficiency in the DEA Context", IFORS Conference, Beijing, 1999 (invited).
35. Z. Sinuany-Stern, L. Friedman, and Y. Hadad, "Multi-stage Ranking of Organizational Units in DEA", ORSIS Conference, Eilat, 2000.

36. Z. Sinuany-Stern, N. Adler and L. Friedman, "Summary Review of Ranking Methods in the DEA Context", invited for semi-plenary, EURO XVII Conference, Budapest, 2000.
37. L. Friedman, and Z. Sinuany-Stern, "Efficiency and Benchmarking: The Case of Israel's Electricity Company", EURO XVII, Budapest, Hungary, 2000.
38. L. Friedman, and Z. Sinuany-Stern, "A Multi-stage Process for Ranking Units in the DEA Context", EURO XVII, Budapest, Hungary, 2000.
39. Z. Sinuany-Stern and L. Friedman, "The Temporal DEA: The Case of Industrial Branches", EURO XVII, Budapest, Hungary, 2000.
40. Z. Sinuany-Stern, and L. Friedman, "Benchmarking of Electric Companies via DEA", EURO XVIII Conference, Rotterdam, 2001.
41. Z. Sinuany-Stern, and L. Friedman, "Comparison of DEA Softwares", IFORS, Conference, Edinburgh, Scotland, 2002.
42. Z. Sinuany-Stern, and L. Friedman, "Comparison of DEA Softwares", ORSIS, Shefaim, 2002.
43. L. Friedman, Z. Sinuany-Stern and Y. Hadad, "Ranking Hotels via the DEA", ORSIS conference, Maale Hahamisha, 2003.
44. L. Friedman, Z. Sinuany-Stern and Y. Hadad, "Ranking Hotels in Israel via the DEA", EURO/INFORMS Conference, Istanbul, Turkey, 2003.
45. Z. Sinuany-Stern, L. Friedman, and Y. Hadad, "Efficiency Based on the Difference between Weighted Outputs and Weighted Inputs with Bounds on the Weights", EURO XX Conference, Rhodes, Greece, 2004.
46. L. Friedman, Y. Hadad, and Z. Sinuany-Stern "Efficiency Based on the Difference between Weighted Outputs and Weighted Inputs", ORSIS Conference, Ashkelon, 2004.
47. Z. Sinuany-Stern, L. Friedman, D. Chernichovsky and Y. Hadad, "Efficiency of Hospitals by Ownership and Size", the 8th Spring Conference of the Israeli Research Center of the Third Sector, Tel Aviv, 2005.
48. L. Friedman, D. Chernichovsky, Y. Hadad, and Z. Sinuany-Stern, "Hospitals Efficiency by Size and Ownership", ORSIS Conference, Keisaria, 2005.
49. Z. Sinuany-Stern L. Friedman, D. Chernichovsky, and Y. Hadad, "Hospitals' Efficiency by Size and Ownership." IFORS, Hawaii, 2005.
50. Z. Sinuany-Stern and N. Davidovitch, "The Relationship between Teaching and Research Activities of Faculty: Case Study of College of Judea and Samaria", Aspects of Higher Education, Meeting organized by URSPU and USTU, Yekaterinburg, Russia, pp. 16-22, 2005.
51. L. Friedman, D. Chernichovsky, Y. Hadad and Z. Sinuany-Stern "Efficiency of Hospitals' wards via DEA: The Israeli Case", ORSIS Conference, Naharia, 2006
52. Z. Sinuany-Stern, L. Friedman, D. Chernichovsky, and Y. Hadad, "Efficiency of Hospitals' wards via DEA: The Israeli Case", EURO XXI Conference, Iceland, 2006.
53. Z. Sinuany-Stern, and N. Davidovitch, "Performance Quality of Males and Females in the Academia - A Case Study: The College of Judea and Samaria",

- the 3<sup>rd</sup> Research and Educational International Conference Contemporary Problems of Higher Education, Yekaterinburg, Russia, 2006.
54. D. Chernichovsky, Z. Sinuany-Stern, L. Friedman, A. Shemsh, Y. Hadad, and I. Graw, "The Relationship Between Hospital Efficiency and Size and Ownership", Fourth Conference of the Eastern Mediterranean Region of the Intel Biometric Society Jan, 2007, Eilat (invited).
  55. Z. Sinuany-Stern, "Educational Programs at Ariel University Center", Euro Education, Rectors Forum, 2007, Barcelona (invited).
  56. N. Davidovitz and Z. Sinuany-Stern, "Academic Achievements of Women", Israel conference on Sderot to Society, Sapir College, 2007 (invited).
  57. L. Friedman, and Z. Sinuany-Stern, "Assessing Efficiency of Hospital Functioning", Conference on Efficiency, Quality and Perfection in Industry, Sapir Academic College, Sderot, 2007.
  58. Z. Sinuany-Stern, L. Friedman, Y. Hadad and V. Rybalkin, "The Effect of Distribution of Production Functions on the DEA Efficiency", EURO XXII Conference, Prague, 2007.
  59. Z. Sinuany-Stern and N. Davidovitz, "Criteria for Measuring Faculty Outputs: A Case Study", the 39th conference of the Israeli Society of Sociology, 2008.
  60. E. Braude, G. Oron and Z. Sinuany-Stern, "Water Insurance for Mitigation of Conflicting Interests of Competing Water Sectors", International Conference On Logistics, Tel-Aviv, 2008.
  61. Z. Sinuany-Stern, "Measuring Hospitals Efficiency by type of ownership", Israel Knesset (Parliament), Ariel Health Conference: Private vs. Public Health, Jerusalem, 2008.
  62. N. Davidovitz, and Z. Sinuany-Stern, "Quality Measures in Operations Research of Academic Faculty – A Case Study", Galilee Quality Conferences, Carmiel, 2008.
  63. E. Braude, Z. Sinuany-Stern, Sh. Hauser, and G. Oron, "A Financial Model for Water Allocation between the Municipal-Industrial and the Agricultural – environmental sectors", ORSIS Conference, Kibbutz Shefaim, 2008.
  64. Z. Sinuany-Stern, E. Braude, S. Hauser, and G. Oron, "A Financial Model to Efficient Water Allocation between the Municipal and Agricultural Sectors", IFORS Conference, Sandton, South Africa, 2008.
  65. N. Davidovitch, and Z. Sinuany-Stern, "Performance Measures of Academic Faculty - Case Study", The V-th International Scientific Conference on Innovation Technologies in The Higher Education Pedagogics, Yekaterinburg, Russia, 2008.
  66. Z. Sinuany-Stern, and N. Davidovitch, "Profile of Students from Judea and Samaria in Contrast to Students from Other Parts of Israel", Conference of Judea and Samaria Research Studies, Ariel, 2008.
  67. N. Davidovitch, Z. Sinuany-Stern, "Absorption of immigrants scientists in Israel" College of Management, Rishon Le Zion, 2009.

68. Z. Sinuany-Stern, N. Davidovitch, and D. Soen, "Integration of Immigrant Scientists in Israeli Academia- A Case Study", the Second International Conference on Initiatives to Promote Learning in Institutions of Higher Education, Carmiel, 2009.
69. N. Davidovitch, D. Soen, and Z. Sinuany-Stern, "The Connection between Students' Assessments of Faculty and Course Grades - A Case Study", the Second International Conference on Initiatives to Promote Learning in Institutions of Higher Education, Ort Braude, Carmiel, Israel, 2009.
70. Z. Sinuany-Stern, "Quadratic Budget Allocation Model", 23rd European Conference on Operational Research, Bonn, Germany, 2009.
71. E. Braude, G. Oron, and Z. Sinuany-Stern, "Maximizing Water Wealth in the Israeli Water Sector: Simulating Water Sector with a Leveraged Firm", Israeli Water Association, Ramat-Gan, 2009.
72. E. Braude, G. Oron, and Z. Sinuany-Stern, "Maximizing the Water Wealth in a National Water Sector: Simulating a Firm with Debt", the 2nd International Conference on Water Economics, Statistics, and Finance, Alexandroupolis, Thrace, Greece, 2009.
73. Z. Sinuany-Stern, "Operations research in the public sector", International Conference on Industrial Logistics, Rio de Janeiro, 2010, **invited, plenary session**
74. D. Alper, D. Shinar, Z. Sinuany-Stern, "Measuring efficiency of local municipalities in Israel from the road safety viewpoint via DEA", Conference on Ergonomics Human Factors' and Road Safety, 2010, Beer-Sheva, Israel.
75. D. Alper, Z. Sinuany-Stern, and V. Berdugo-Kushnir, "Evaluating the efficiency of police stations in Israel via DEA", the 16-th conference of Industrial Engineering and Management, Tel-Aviv, Israel, 2010.
76. Z. Sinuany-Stern, "Quadratic model for budget allocation", ORSIS conference , Nir Etzion, Israel, 2010.
77. D. Alper, and Z. Sinuany-Stern, "Evaluating Israeli police stations performance using DEA", ORSIS conference , Nir Etzion, Israel, 2010, **Won the ORSIS prize.**
78. D. Alper, D. Shinar, and Z. Sinuany-Stern, "Evaluating Israeli local authorities' performance in traffic safety using DEA", International Conference on safety and mobility of vulnerable road users: pedestrians, motorcyclists, bicyclists, Jerusalem, 2010.
79. Z. Sinuany-Stern, and D. Alper, and V. Berdugo-Kushnir, "Evaluating Israeli police stations performance using DEA", EURO conference, Lisbon, Portugal, 2010.
80. Z. Sinuany D. Alper, and V. Berdugo-Kushnir, "Evaluating the efficiency of police stations in Israel via DEA", the 7-th International Conference on Computational Management Science, Vienna, Austria, 2010.
81. Z. Sinuany-Stern, "Hospitals' Efficiency by Size and Ownership", **invited plenary lecture**, for the Health Group of the Austrian OR Society, 2010.

82. N. Davidovitch, Sinuany-Stern Z., Soen D, "Integration of Immigrant Scientists in Israeli Academia", Seventh Conference of the Israeli Forum for Social Policy Research and the First ESPANET Israel Conference, Bar Ilan University, Israel, 2010.
83. N. Davidovitch, D. Soen, Z. Sinuany-Stern, Positioning centers promoting academic learning: A case study on teaching in higher education institutions. Paper presented at the Conference on Learning and Teaching in Higher Education: Gaps and Bridges, Open University, Raanana, Israel 2010.
84. D. Alper, D. Shinar, Z. Sinuany-Stern, "Towns efficiency in road accidents prevention", ORSIS 2011.
85. Z. Sinuany-Stern, D. Alper, D. Shinar, "Towns efficiency in road accidents prevention", IFORS 2011.
86. Z. Sinuany-Stern, "Hospitals' Efficiency by Size and Ownership", Seminar Lecture, University of Queensland, Australia, 2011.
87. Z. Sinuany-Stern, Seminar Lecture, "Data Envelopment Analysis and ranking methods", University of Tasmania, Australia, 2011.
88. Z. Sinuany-Stern, "Hospitals' Efficiency by Size and Ownership", Seminar Lecture, University of Melbourne, Australia, 2011.
89. Z. Sinuany-Stern, D. Chernichovsky, and Z. Simon, "The Israeli Health system; An Overview", Seminar Lecture, University of Vienna, Austria, 2011.
90. Z. Sinuany-Stern, and N. Davidovitch, "Paradoxes in higher education: Universities versus academic college", Intercultural Ties in Higher Education and Academic Teaching, in Ariel, Sept. 2011.
91. Z. Sinuany-Stern, " Higher education as a key for economic success: The case of Israel" , Pedagogic, Odessa, Ukrain, December, 2011.
92. Z. Sinuany-Stern, N. Kristal, H. Shachaf, D. Chernichovski, and L. Friedman, "Efficiency of hospitals in Israel during 1999-2009", Ind. Eng. Conference, Tel Aviv, 2012.
93. Z. Sinuany-Stern, N. Kristal, H. Shachaf, D. Chernichovski, and L. Friedman, "Efficiency of hospitals in Israel during 1999-2009", ORSIS, in Male Hchamisha, June, 2012.
94. Z. Sinuany-Stern, and D. Alper, "Efficiency of cars vs. Manpower in police stations", Proceedings of International Conference of Industrial Logistics, Zadar, Croatia 2012.
95. Z. Sinuany-Stern, N. Kristal, H. Shachaf, D. Chernichovski, and L. Friedman, "Efficiency of hospitals in Israel during 1999-2009", EURO conference , in Vilnius, Lituania, July, 2012.
96. Z. Sinuany-Stern, "Efficiency of Hospitals Operating Departments", ORSIS conference, Beer-Sheva, 2013.
97. Z. Sinuany-Stern, "Efficiency of Hospitals Operating Departments", EURO/INFORMS conference in Rome, July, 2013.

98. Z. Sinuany-Stern, L. Friedman, and D. Chernechovsky, "Macro and micro analyses of hospitals efficiency", Israel Science Foundation, DEA Workshop on Productivity Regulation and Transportation, Jerusalem, 2013.
99. Z. Sinuany-Stern and N. Davidovitch, "Training teachers for higher education", Tel Aviv, International Conference on Higher Education, 2014.
100. S. Cohen-Kadosh, and Z. Sinuany-Stern, "The relationship between the socio-economic index and efficiency of orthopedic wards via data envelopment analysis", The 18th Industrial Engineering and Management Conference, Tel Aviv, 2014.
101. S. Cohen-Kadosh, and Z. Sinuany-Stern, "The effect of socio-economic index on the efficiency of orthopedic wards via data envelopment analysis", Annual Meeting of Operations Research Society of Israel, Tel Aviv, 2014.
102. N. Davidovitch, and Z. Sinuany-Stern, "Academic outputs and excellence measures of academic faculty: A case study", Conference on Excellency in Teaching, Ramat-Gan, 2014.
103. Z. Sinuany-Stern, O. Cohen, and N. Shakuhi, "Measuring the Efficiency of Hospitals' Operating Departments", International Conference of Industrial Logistics, Brac, Croatia, 2014.
104. Z. Sinuany-Stern, S. Cohen-Kadosh, and L. Friedman, "The relationship between the efficiency of orthopedic wards and the socio-economic status of their patients: a national case study", IFORS, Barcelona, 2014.
105. Z. Sinuany-Stern, Y. Haviv, and D. Ifrah, "Measuring the differentiability of faculty in Israel's higher education institutions", 19th Industrial Engineering and Management Conference, Tel Aviv, 2015.
106. Z. Sinuany-Stern, "OR/MS in Higher Education", Annual Meeting of Operations Research Society of Israel, Haifa, 2015.
107. Z. Sinuany-Stern, "Operations Research in Higher Education Complex Systems", EURO conference, Glasgow, 2015.
108. Z. Sinuany-Stern, "Two Stage Data Envelopment Analyses", GOR conference, Vienna, 2015.
109. Z. Sinuany-Stern, "On Research, Teaching and Gender: Assessing Products in Israel's Higher Education System – A Case Study", 10<sup>th</sup> international Conference on Quality, Mobility, and Globalization in Higher Education Systems o A Comparative Look at the Challenges of Academic Teaching. Ariel, 2015.
110. Z. Sinuany-Stern, Types of periphery in higher education and solutions for its accessibility. Dahan center, Bar Ilan University, Israel, 2016.
111. Z. Sinuany-Stern, and L. Friedman, Statistical Analysis in the DEA context. The Second International Symposium on Stochastic Models in Reliability Engineering, Life Science and Operations Management (SMRLO'16), 2016
112. S. Cohen Kadosh and Z. Sinuany-Stern. The relationship between the efficiency of hip fracture surgeries and patients socio-economic index using two stage

- network DEA: The case of Israel. ORSIS conference, Male H-Chamisha, Israel. 2016.
113. Z. Sinuany-Stern, S. Cohen-Kadosh. The relationship between the efficiency of hip fracture surgeries and patients socio-economic index using two stage network DEA: The case of Israel. EURO Conference in Poland July 2016
114. Z. Sinuany-Stern, V. Kushnir-Berdugob, and D. Alper  
Logistics Factors Effecting Police Station Efficiency. ICIL International Conference on Industrial Logistics, Poland, 2016. **Keynote speaker.**
- Z. Sinuany-Stern, Higher Education in Israel and the Diaspora, in conference on Modern Jewish Existence in a World of Threats and Hostility, Ariel, Israel, 2016.

### **Research Grants**

- 1986-1989 Israel Foundation Trustees, “An Emergency Model for Urban Areas” (with E. Stern).
- 1992–1994 Basic Research Foundation, the Israel Academy of Sciences, “Choice Behavior in Congested Situations: The Effects of Information” (with E. Stern).
- 1991- 2000 Paul Ivanier Center for Robotics and Production Management.
- 2002-2006 The Israel Institute for Health Policy and Health Services, “Hospitals Efficiency” (with D. Chernichovsky and L. Friedman).
- 2007-2008 Regional Samaria and Jordan Rift R&D Center, “The Profile of Students Living in the Judean & Samaritan Region Compared to Students from other Regions of the Country who Study in Judea & Samaria” (with N. Davidovitch).
- 2008-2009 Regional Samaria and Jordan Rift R&D Center, “The Absorption of Immigrant Scientists in Academia” (with N. Davidovitch).
- 2008 Israeli Police Headquarters, “Efficiency of Police Stations”.
- 2013 DEA Workshop on Productivity regulation and Transportation, Research Workshop of ISF, \$10,000 (with N. Adler, and B. Golany).
- 2017 Improving emergency services dispatchers’ decision making for emergency calls that require resuscitation. The Israel National Institute for Health Policy Research, 101,000 NIS (with Y. Bitan, and E. Yaffe).

### **Submitted Grant Proposals**

- 2017 Static VS. Dynamic Emergency Medical Services Deployment to a Mass Casualty Nature Disasters in Israel