

# DAVID M. STEINBERG

Curriculum Vitae  
June 2010

Department of Statistics and Operations Research  
School of Mathematical Sciences  
Tel-Aviv University  
email: dms@post.tau.ac.il  
Phone: 03-6408035  
Fax: 03-6409357

ID Number 01701876  
Home Address: Rav Ashi Street 7/41, Tel Aviv  
Phone: 03-6416715  
Date of birth: November 23, 1951  
Marital status: Married + 3

## EDUCATION

1975-1978 B.Sc. in Mathematics, Tel-Aviv University  
1979-1983 Ph.D. in Statistics, University of Wisconsin-Madison  
Title of Ph.D. Thesis: Bayesian models for response surfaces and their  
implications for experimental design  
Name of Supervisor: Professor George E.P. Box

## ACADEMIC AND PROFESSIONAL EXPERIENCE

1980-1982 Statistical consultant with the Statistical Laboratory,  
Department of Statistics, University of Wisconsin-Madison  
1982-1983 Research assistant to Professor George Box at the  
Mathematics Research Center, University of Wisconsin-  
Madison  
1982-1984 Post-doctoral fellow in Statistics at the Mathematics  
Research Center, University of Wisconsin-Madison; and  
lecturer in the Department of Statistics, University of  
Wisconsin-Madison.

- 1984-1986 National Science Foundation Post-doctoral fellow in Statistics at Stanford University (1984-1985) and Tel Aviv University (1985-1986).
- 1985-1989 Lecturer, Department of Statistics, Tel-Aviv University
- 1989-1998 Senior Lecturer, Department of Statistics and Operations Research, Tel-Aviv University
- 1984-1986 Visiting Professor, Department of Statistics and Center for Quality and Productivity Improvement, University of Wisconsin-Madison
- 1994- Senior Consultant, *KPA Ltd.*, The *KPA* Center for Robust Design and Industrial Statistics, Raanana, Israel
- 1998- 2005 Associate Professor, Department of Statistics and Operations Research, Tel-Aviv University
- 2005 - Full Professor, Department of Statistics and Operations Research, Tel-Aviv University
- 2007 Visiting Senior Researcher, SAMSI, Research Triangle Park, North Carolina

## **OTHER ACTIVITIES**

- June 1998 Representative of the State of Israel to the IDC Technical Experts Meeting on Seismic Monitoring of the Comprehensive Test Ban Treaty, Vienna.
- May 1999 Representative of the State of Israel to the IDC Technical Experts Meeting on Seismic and Hydroacoustic Monitoring of the Comprehensive Test Ban Treaty, Vienna.
- Nov 2000 Representative of the State of Israel to the IDC Technical Experts Meeting on Seismic and Hydroacoustic Monitoring of the Comprehensive Test Ban Treaty, Alice Springs, Australia.

Consultant to

- Israel Atomic Energy Commission,
- Serono Biotech
- Interpharm

- Israel National Study on Acute Lymphatic Leukemia
- Institute of Thrombosis and Hemostasis (Sheba Medical Center),
- Israel Ministry of Defense
- Lucy Cohen Center for Public Opinion Research
- Faculties of Medicine and Life Sciences (Tel Aviv University)

## **ACADEMIC AND PROFESSIONAL AWARDS**

- 1985 Awarded National Science Foundation Post-Doctoral Fellowship
- 1983 Awarded Allon Fellowship at Tel Aviv University
- 1986 Youden Award for best expository paper in *Technometrics* in 1984, for paper with W.G. Hunter
- 1987 Award for best contributed paper, Joint Meetings of the American Statistical Association, Section on Physical and Engineering Sciences
- 1988 Awarded Bat Sheva de Rothschild Fellowship
- 1994 Awarded research grant by the Israel Academy of Sciences
- 1996 Article with R.D. Meyer and G. Box presented at the *Technometrics* session at the Joint Meetings of the ASA and IMS.
- 1996 Article with S. Bisgaard presented at the *Technometrics* session at the Fall Technical Conference
- 1997 Awarded research grant by the Tel Aviv University research fund
- 1998 Awarded research grant by the Israel Cancer Association (joint with Prof. B. Stark and Prof. R. Zaizov (Renewed 1999-2006)
- 1998 Awarded research grant by the joint VATAT-Israel Atomic Energy Commission research fund (Renewed 1999-2004, 2006)
- 1999 Wilcoxon award for best practical application paper in *Technometrics* in 1997, for paper with S. Bisgaard
- 2005 Article with D. Bursztyn presented at the *Technometrics* session at the Joint Statistical Meetings
- 2006 Awarded research grant by the Israel Ministry of Construction and Housing

- 2007 Article with H.A. Dror presented at the *Technometrics* session at the Spring Research Conference
- 2009 Awarded research grant by the US-Israel Binational Science Foundation, together with Bradley Jones

### **AWARDS RECEIVED BY STUDENTS**

- 2004 M. Sc. Student Inna Zaslavsky-Paltiel awarded prize for best student paper in the annual student paper competition of the Section on Statisticians in Defense and National Security of the American Statistical Association.
- 2005 M. Sc. Student Einat Neumann-Ben Ari awarded Putter Prize of the Israel Statistical Association.
- 2007 Ph. D. Student Hovav Dror awarded Putter Prize of the Israel Statistical Association.
- 2008 Ph. D. Student Sigal Levy awarded Putter Prize of the Israel Statistical Association.

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Member: American Statistical Association  
Fellow: Royal Statistical Society  
Member: Israel Statistical Association (Treasurer 1987-1991, Vice President 2005-2007)  
Member: International Statistical Institute  
Member: American Society for Quality  
Member: European Network for Business and Industrial Statistics

### **REFEREEING AND EDITORIAL POSITIONS**

*Technometrics*, Editor 2008-2010, Editor Elect 2007  
*Applied Statistics*  
*Annals of Statistics*

*Journal of Statistical Planning and Inference*  
*Journal of the American Statistical Association*  
*Biometrics*  
*Metrika*  
*Statistica Sinica*  
*Journal of the Royal Statistical Society, Series B*  
*Geophysical Journal International*  
*Journal of Quality Technology*  
*Journal of Chemometrics*  
*Journal of Stochastic Models in Business and Industry*  
US-Israel Binational Science Foundation  
US National Science Foundation  
Israel Science Foundation  
American Mathematical Society  
Israel Cancer Association

## LIST OF PUBLICATIONS

### ARTICLES

1. D.M. Steinberg, W.G. Hunter, Experimental Design: Review and comment (with discussion). *Technometrics* 26 (1984), 71-130.
2. D.M. Steinberg, Model robust response surface designs: Scaling two-level factorials. *Biometrika* 72 (1985), 513-526.
3. R. Kenett, D.M. Steinberg, Some experiences teaching factorial design in introductory statistics courses. *Journal of Applied Statistics* 14 (1987), 219-227.
4. D.M. Steinberg, Factorial experiments with time trends. *Technometrics* 30 (1988), 259-269.
5. N. Rabinowitz, D.M. Steinberg, Effect of single arrival time on the hypocentral focal depth determination. *Geophysical Journal* 94 (1988), 567-570.
6. D.M. Steinberg, A Bayesian approach to flexible modeling of multivariable response functions. *Journal of Multivariate Analysis* 34 (1990), 157-172.
7. N. Rabinowitz, D.M. Steinberg, Optimal configuration of a seismographic network – a statistical approach. *Bulletin of the Seismological Society of America* 80 (1990), 187-196.

8. C.S. Cheng, D.M. Steinberg, Trend robust two-level factorial design". *Biometrika* 78 (1991), 325-336.
9. N. Rabinowitz, D.M. Steinberg, Seismic hazard sensitivity analysis: a multi-parameter approach. *Bulletin of the Seismological Society of America* 81 (1991), 796-817.
10. N. Rabinowitz, D.M. Steinberg, G. Leonard, When does seismic hazard jump? *Earthquake Spectra* 9 (1993), 877-883.
11. D.M. Steinberg, D. Bursztyn, Dispersion effects in robust-design experiments with noise factors. *Journal of Quality Technology* 26 (1994), 12-20.
12. N. Rabinowitz, D.M. Steinberg, G. Leonard, How important are "exact" fault dimensions in assessing seismic hazard at a near site? A case study for Shivta site, Israel. *Israel Journal of Earth Sciences* 43 (1994), 39-45.
13. G. Leonard, D.M. Steinberg, N. Rabinowitz, Assessment of seismic hazard near faults of uncertain type: inter-plate versus intra-plate. *Natural Hazards* 11 (1995), 111-121.
14. D.M. Steinberg, N. Rabinowitz, Y. Shimshoni, D. Mizrachi, Configuring a seismographic network for optimal monitoring of fault lines and multiple sources. *Bulletin of the Seismological Society of America* 85 (1995), 1847-1857.
15. B. Milman, I. Sirota, D.M. Steinberg, Improving the safety of a pyrotechnic igniter through a controlled experiment. *Propellants, Explosives, Pyrotechnics* 20 (1995), 294-299; (see also Proceedings of Conferences No 3).
16. F. Abramovich, D.M. Steinberg, Improved inference in nonparametric regression using  $L_k$  smoothing splines. *Journal of Statistical Planning and Inference* 49 (1996), 327-341.
17. R.D. Meyer, D.M. Steinberg, G.E.P. Box, Follow-up designs to resolve confounding in multifactor experiments. *Technometrics* 38 (1996), 303-313 (response to discussants 327-332).
18. S. Bisgaard, D.M. Steinberg, The design and analysis of  $2^{k-p} \times s$  prototype experiments. *Technometrics* 39 (1997), 52-62.
19. D.M. Steinberg, D. Bursztyn, Noise factors, dispersion effects and robust design. *Statistica Sinica* 8 (1998), 67-85.
20. N. Rabinowitz, D.M. Steinberg, G. Leonard, Logic trees, sensitivity analyses and data reduction in seismic hazard assessment. *Earthquake Spectra* 14 (1998), 189-201.

21. G. Leonard, D.M. Steinberg, N. Rabinowitz, An indication of time-dependent seismic behavior – an assessment of paleoseismic evidence from the Arava Fault, Israel. *Bulletin of the Seismological Society of America* 88 (1998), 767-776.
22. J.S. Ishay, S. Kirshboim, D.M. Steinberg, D. Kalicharan, W.L. Jongebloed, Hornet cuticle – a composite structure comprised of a series of duplex lamellae attenuating toward the interior of the body. *Comparative Biochemistry and Physiology*, 120 (1998), 661-670.
23. O. Salomon, J. Moisseiev, N. Rosenberg, O. Vidne, I. Yassur, A. Zivelin, G. Treister, D.M. Steinberg, U. Seligsohn, Analysis of gene polymorphisms related to thrombosis and other risk factors in patients with retinal vein occlusion. *Blood Coagulation and Fibrinolysis*, 9 (1998), 617-622.
24. N. Rabinowitz, D.M. Steinberg, Aftershock decay of three recent strong earthquakes in the Levant. *Bulletin of the Seismological Society of America*, 88 (1998), 1580-1587.
25. B. Kaplan, D. Rabinerson, O.M. Avrech, N. Carmi, D.M. Steinberg, P. Merlob, Fracture of the clavicle in the newborn following normal labor and delivery. *International Journal of Gynecology & Obstetrics*, 63 (1998), 15-20.
26. N. Rabinowitz, D.M. Steinberg, Short-term forecasting of strong aftershock activity of the  $M_w$  7.1 Gulf of Eilat earthquake of November 22, 1995. *Israel Journal of Earth Sciences* 46 (1998) 113-119.
27. C.-S. Cheng, D.M. Steinberg, D.X. Sun, Minimum aberration and model robustness for two-level fractional factorial designs. *Journal of the Royal Statistical Society, Series B*, 61 (1999), 85-93.
28. O. Salomon, D.M. Steinberg, A. Zivelin, S. Gitel, R. Dardik, N. Rosenberg, S. Berliner, A. Inbal, A. Many, A. Lubetzky, D. Varon, U. Martinowitz, U. Seligsohn, Single and combined prothrombotic factors in patients with idiopathic venous thrombo-embolism: prevalence and risk assessment. *Arteriosclerosis, Thrombosis and Vascular Biology*, 19 (1999), 511-518.
29. O. Salomon, R. Huna-Baron, D.M. Steinberg, S. Kurtz, U. Seligsohn, Role of aspirin in reducing the frequency of second eye involvement in patients with non arteritic anterior ischaemic optic neuropathy. *Eye*, 13 (1999), 357-359.
30. J.S. Ishay, L. Litinetsky, D.M. Steinberg, Architecture and composite structure of hornet cuticle (Insecta, Hymenoptera). *Composite Structures*, 46, (1999), 387-394.

31. O. Salomon, R. Huna-Baron, S. Kurtz, D.M. Steinberg, J. Moisseiev, N. Rosenberg, A. Zivelin, I. Yassur, S. Gitel, J. Davidson, B. Ravid, U. Seligsohn, Analysis of prothrombotic and vascular risk factors in patients with nonarteritic ischemic optic neuropathy. *Ophthalmology*, 106 (1999), 739-742.
32. Y. Bartal, Z. Somer, G. Leonard, D.M. Steinberg, Y. Ben Horin, Optimal seismic networks in Israel in the context of the Comprehensive Test Ban Treaty. *Bulletin of the Seismological Society of America*, 90 (2000), 151-165.
33. J. Merrick, E. Ezra, B. Josef, D. Hendel, D.M. Steinberg, and S. Wientroub, Musculoskeletal problems in Down Syndrome – European Paediatric Orthopaedic Society survey: The Israeli sample. *Journal of Pediatric Orthopaedics, Part B*, 9 (2000), 185-192.
34. O. Salomon, R. Dardik, D.M. Steinberg, S. Kurtz, N. Rosenberg, J. Moisseiev, R. Huna-Baron, The role of angiotensin converting enzyme and angiotensin II type 1 receptor gene polymorphisms in patients with nonarteritic anterior ischemic optic neuropathy. *Ophthalmology*, 107 (2000), 1717-1720.
35. D.M. Steinberg, M. Bodor, Y. Bartal, Y. Ben Horin, G. Leonard, Modeling errors, bias and error regions in IMS seismic monitoring of Israel. *Physics of the Earth and Planetary Interiors*, 123 (2001), 267-281.
36. O. Salomon, N. Rosenberg, A. Zivelin, D.M. Steinberg, N. Kornbrot, R. Dardik, A. Inbal, U. Seligsohn, Methionine synthase A2756G and methylenetetrahydrofolate reductase A1298C are not risk factors for idiopathic venous thromboembolism. *The Hematology Journal*, 2, (2001), 38-41.
37. F. Glaser, D.M. Steinberg, I.A. Vakser, N. Ben-Tal, Residue frequencies and pairing preferences at protein-protein interfaces. *Proteins*, 43, (2001), 89-102.
38. Y. Parmet, D.M. Steinberg, Quality improvement from disassembly-reassembly experiments. *Communications in Statistics, Theory and Methods*, 30(5), (2001), 969-985.
39. D. Bursztyn, D.M. Steinberg, Rotation designs for experiments in high bias situations. *Journal of Statistical Planning and Inference* 97, (2001), 399-414.
40. O. Salomon, R. Huna-Baron, J. Moisseiev, N. Rosenberg, A. Rubovitz, D.M. Steinberg, J. Davidson, B.A. Sela, U. Seligsohn, Thrombophilia as a cause for central and branch retinal artery occlusion in patients without an apparent embolic source. *Eye*, 15 (2001), 511-514.
41. C. Peretz, D.M. Steinberg, Improved non-negative estimation of variance components for exposure assessment. *Journal of Exposure Analysis and Environmental Epidemiology*, 11 (2001), 414-421.

42. D. Bursztyn, D.M. Steinberg, Rotation designs: Orthogonal first-order designs with higher order projectivity. *Journal of Applied Stochastic Models in Business and Industry*, **18** (2002), 197-206.
43. G. Leonard, D.M. Steinberg, Seismic hazard assessment: Simultaneous effect of earthquakes at close and distant sites. *Earthquake Spectra*, **18** (2002), 615-629.
44. O. Salomon, D.M. Steinberg, R. Dardik, N. Rosenberg, A. Zivelin, I. Tamarin, B. Ravid, S. Berliner, U. Seligsohn, Inherited factor XI deficiency confers no protection against acute myocardial infarction. *Journal of Thrombosis and Haemostasis*, **1** (2003), 658-661.
45. O. Salomon, A Zivelin, R. Dardik, R. Loewenthal, O. Avishai, D.M. Steinberg, M. Rosove, N. O'Connell, C. Lee, U. Seligsohn, Prevalence, causes and characterization of factor XI inhibitors in patients with inherited factor XI deficiency. *Blood*, **101**, (2003), 4783-4788.
46. D.M. Steinberg, N. Rabinowitz, Optimal seismic monitoring for event location with application to On Site Inspection of the Comprehensive Nuclear Test Ban Treaty. *Metrika*, **58**, (2003), 31-57.
47. O. Salomon, N. Rosenberg, D.M. Steinberg, R. Huna-Baron, J. Moisseiev, R. Dardik, O. Goldan, S. Kurtz, A. Ifrah, U. Seligsohn, Nonarteritic anterior ischemic optic neuropathy is associated with a specific platelet polymorphism located on the glycoprotein Iba gene. *Ophthalmology*, **111**, (2004), 184-188.
48. D.M. Steinberg, M. Kaplan, J. Merrick, S. Wientroub, Design and implementation of a multi-national computerized patient survey: The European Paediatric Orthopaedic Society Down syndrome survey. *The Scientific World Journal*, **4**, (2004), 256-263.
49. B. Stark, M. Jeison, L. Glazer Gabay, J. Mardoukh, D. Luria, I. Bar-Am, G. Avrahami, Y. Kapeliushnik, D. Sthoeger, G. Herzl, D.M. Steinberg, I.J. Cohen, Y. Goshen, J. Stein, R. Zaizov, I. Yaniv, Classical and molecular cytogenetic abnormalities and outcome of childhood acute myeloid leukaemia: report from a referral center in Israel. *British Journal of Haematology*, **126**, (2004), 320-337.
50. J.S. Ishay, A. Sverdlov, V. Pertsis, Y. Gavrilov, D.M. Steinberg, Light modulates electric phenomena in hornet cuticle. *Photochemistry and Photobiology*, **80**, (2004), 115-118.
51. D.M. Steinberg, D. Bursztyn, Data analytic tools for understanding random field regression models. *Technometrics*, **46**, (2004), 411-420.

52. O. Salomon, U. Seligsohn, D.M. Steinberg, Y. Zalel, A. Lerner, N. Rosenberg, M. Pshithizki, M. Oren, B. Ravid, J. Davidson, E. Schiff, R. Achiron, The common prothrombotic factors in nulliparous women do not compromise blood flow in the fetomaternal circulation and are not associated with preeclampsia or intrauterine growth restriction. *American Journal of Obstetrics and Gynecology*, **191**, (2004), 2002-2009.
53. O. Salomon, D.M. Steinberg, I. Tamarin, A. Zivelin, U. Seligsohn, Plasma replacement therapy during labor is not mandatory in women with severe factor XI deficiency. *Blood Coagulation and Fibrinolysis*, **16** (2005), 37-41.
54. Z.B. Begin, D.M. Steinberg, G.A. Ichinose, S. Marco, A 40,000 year unchanging seismic regime in the Dead Sea rift. *Geology*, **33**, (2005), 257-260.
55. G. Berger, D.M. Steinberg, A. Popovtzer, D. Ophir, Endoscopy versus radiography for the diagnosis of acute bacterial rhinosinusitis. *European Archives of Oto-Rhino-Laryngology*, **262**, (2005), 416-422.
56. O. Salomon, D.M. Steinberg, M. Pshithizki, Y. Zalel, A. Lerner, N. Rosenberg, R. Achiron, The influence of prothrombotic polymorphisms and obstetrical and medical variables on the length of secondary postpartum hemorrhage. *Journal of Womens Health*, **14**, (2005), 306-10.
57. D. Bursztyn, D.M. Steinberg, Comparison of designs for computer experiments. *Journal of Statistical Planning and Inference*, **136**, (2006), 1103-1119.
58. R.A. Bates, R.S. Kenett, D.M. Steinberg, H.P. Wynn, Achieving robust design from computer simulations. *Quality Technology and Quantitative Management*, **3**, (2006), 161-177.
59. D.M. Steinberg, D.K.J. Lin, A construction method for orthogonal Latin hypercube designs. *Biometrika*, **93**, (2006), 279-288. Correction, *Biometrika*, **93**, (2006), 1025.
60. R.S. Kenett, D.M. Steinberg, New frontiers in design of experiments. *Quality Progress*, August (2006), 61-65.
61. D.M. Dror, R. Koren, D.M. Steinberg, The equity impact of micro health insurance units in the Philippines. *Health Policy*, **77**, (2006), 304-317.
62. R.S. Kenett, E. Rahav, D.M. Steinberg, Bootstrap analysis of designed experiments. *Quality and Reliability Engineering International*, **22**, (2006), 659-667.
63. H.A. Dror, D.M. Steinberg, Robust experimental design for multivariate generalized linear models. *Technometrics*, **48**, (2006), 520-529.

64. M. Yaniv, T. Becker, M. Goldwirt, S. Khamis, D.M. Steinberg, S. Wientroub, Prevalence of bowlegs among child and adolescent soccer players. *Clinical Journal of Sport Medicine*, 16, (2006), 392-396.
65. O. Salomon, J. Moisseiev, T. Vilganski, R. Dardik, S. Kurtz, E. Shpringer, D.M. Steinberg, N. Rosenberg, Role of five platelet membrane glycoprotein polymorphisms in branch retinal vein occlusion. *Blood Coagulation and Fibrinolysis*, 17, (2006), 485-488.
66. O. Salomon, D.M. Steinberg, U. Seligsohn, Variable bleeding manifestations characterize different types of surgery in patients with severe factor XI deficiency enabling parsimonious use of replacement therapy. *Haemophilia*, 12, (2006), 490-493.
67. E. Maman, D.M. Steinberg, B. Stark, S. Izraeli, S. Wientroub, Acute lymphoblastic leukemia in children: correlation of musculoskeletal manifestations and immunophenotypes. *Journal of Children's Orthopaedics*, 1 (2007), 63-68.
68. A. Herman, N. Notzer, Z. Libman, R. Braunstein, D.M. Steinberg, Statistical education for medical students – Concepts is what remains when the details are forgotten. *Statistics in Medicine*, 26, (2007), 4344-4351.
69. E. Neumann Ben-Ari, D.M. Steinberg, An empirical comparison of Kriging with MARS and projection pursuit regression in modeling data from computer experiments. *Quality Engineering*, 19, (2007), 327-338.
70. D.M. Steinberg, S. Bisgaard. *Technometrics*: How it all started. *Technometrics*, 50, (2008), 2-7.
71. M. Tripolski Kimel, Y. Benjamini, D.M. Steinberg. The false discovery rate for multiple testing in factorial experiments. *Technometrics*, 50, (2008), 32-39.
72. I. Zaslavsky-Paltiel, D.M. Steinberg. Comparison of methods for estimating station corrections for improved seismologic monitoring of the Comprehensive Nuclear-test-ban Treaty. *Bulletin of the Seismological Society of America*, 98, (2008), 1-17.
73. H.A. Dror, D.M. Steinberg. Sequential experimental designs for generalized linear models. *Journal of the American Statistical Association*, 103, (2008), 288-298.
74. O. Salomon, D.M. Steinberg, N. Koren-Morag, D. Tanne, U. Seligsohn. Reduced incidence of ischemic stroke in patients with severe factor XI deficiency. *Blood*. 111, (2008), 4113-4117.

75. D.M. Steinberg (ed.) The future of industrial statistics: A panel discussion, *Technometrics*, 50, (2008), 103-127.
76. G. Kenet, E. Ezra, S. Wientroub, D. M. Steinberg, N. Rosenberg, D. Waldman, S. Hayek. Perthes' disease and the search for genetic associations: collagen mutations, Gaucher's disease and thrombophilia, *Journal of Bone and Joint Surgery*, 90-B, (2008), 1507-1511.
77. T. Meirova, R. Hofstetter, Z. Ben-Avraham, D.M. Steinberg, L.Malagnini, A. Akinci. Weak-motion-based attenuation relationships for Israel, *Geophysical Journal International*, 175, (2008), 1127-1140.
78. G. Nimrod, M. Schushan, D.M. Steinberg, N. Ben-Tal. Systematic Detection of Functionally Important Regions in 'Hypothetical Proteins' of Known Structure, *Structure*, 16, (2008), 1755-1763.
79. E.Y. Birati, N. Malovc, Y. Kogan, Y. Yanay, M. Tamaric, M. Elizur, D.M. Steinberg, M. Golovnerc, A. Roth. Vigilance, awareness and a phone line: 20 years of expediting CPR for enhancing survival after out-of-hospital cardiac arrest: The 'SHL'-Telemedicine experience in Israel, *Resuscitation*, 79, (2008), 438-443.
80. O. Salomon, B.-Z. Katz, R. Dardik, T. Livnat, D.M. Steinberg, R. Achiron, U. Seligsohn. Plasma levels of microparticles at 24 weeks of gestation do not predict subsequent pregnancy complications, *Fertility and Sterility*, 92 (2), (2009) 682-687.
81. A. Roth, N. Malov, D.M. Steinberg, Y. Yanay, M. Elizur, M. Tamari, M. Golovner. Telemedicine for post-myocardial infarction patients: an observational study, *Telemed J E Health*, 1, (2009), 24-30.
82. D.M. Steinberg, R. Chappell, J. Fine, Sample size for positive and negative predictive value in diagnostic research, *Biostatistics*, 10, (2009), 94-105.
83. C.M. Gotwalt, B.A. Jones, D.M. Steinberg. Fast computation of designs robust to parameter uncertainty for nonlinear settings, *Technometrics*, 51, (2009), 88-95.
84. H. Grinberg-Rashi, E. Ofek, M. Perelman, J. Skarda, P. Yaron, M. Hajdúch , J. Jacob-Hirsch, N. Amariglio, M. Krupsky, D.A. Simansky, Z. Ram, R. Pfeffer, I. Galernter, D.M. Steinberg, I. Ben-Dov, G. Rechavi, S. Izraeli. Prediction of Brain Metastasis by the Expression of Three Genes in Primary Non Small Cell Lung Cancer, *Clinical Cancer Research*, 15 (5), (2009), 1755-1761.
85. A.D. Heymann, I. Hoch, L. Valinsky, E. Kokia, D.M. Steinberg. School closure may be effective in reducing transmission of respiratory viruses in the community, *Epidemiology and Infection*, 137 (10), (2009), 1369-1376.

86. N. Zayats, D.M. Steinberg. Optimal design of experiments when factors affect detection capability, *Pakistan Journal of Statistics*, 26, (2010), 15-37.
87. D.M. Steinberg, D. Bursztyn. Response surface methodology in biotechnology. *Quality Engineering*, 22, (2010), 78-87.

### **Accepted for Publication**

1. C. Fuchs, D.M. Steinberg, M. Poyurovsky. On the estimation of lifetime morbid risks, *Journal of Data Science*.
2. D. Luria, E. Rosenthal, D. Steinberg, Y. Kodman, M. Safanaiev, N. Amariglio, S. Avigad, B. Stark, S. Izraeli. Prospective Comparison of Two Flow Cytometry Methodologies for Monitoring Minimal Residual Disease in a Multicenter Treatment Protocol of Childhood Acute Lymphoblastic Leukemia. *Clinical Cytometry*.
3. Y. Gerber, V. Myers, D.M Broday, S. Koton, D.M Steinberg, Y. Drory. Cumulative exposure to air pollution and long term outcomes after first acute myocardial infarction: A population-based cohort study. Objectives and methodology. *BMC Public Health*.

### **Submitted for Publication**

1. A. Herman, B. Stark, D.M. Steinberg. Remission status in the analysis of event free survival and disease free survival. *Communications in Statistics – Theory and Methods*.

### **MONOGRAPHS**

1. R. Kenett, D.M. Steinberg, Advanced Methods in Quality Engineering, 2nd Edition (in Hebrew). KPA Ltd. (1995).
2. D.M Steinberg, Introduction to Statistics for Medical Students (in Hebrew). (2002).

### **CHAPTERS IN BOOKS**

1. D.M. Steinberg, Robust design: Experiments for improving quality. in *Handbook of Statistics*, Vol. 13, ed. By S. Ghosh and C.R. Rao, Elsevier Science, (1996), 199-240.

2. D.M. Steinberg, S. Bisgaard, Statistical methods for product development: Prototype experiments. in *Statistical Process Monitoring and Optimization*, ed. by S.H. Park and G.G. Vining, Marcel Dekker, (2000), 321-338.
3. N. Rabinowitz, D.M. Steinberg, A statistical outlook on the problem of seismic network configuration. in *Advances in Seismic Event Location*, ed. by C.H. Thurber and N. Rabinowitz, Kluwer, (2000), 51-69.
4. D. Bursztyn, D.M. Steinberg, Screening experiments for dispersion effects. in *Screening: Methods for Experimentation in Industry, Drug Discovery, and Genetics*, ed. by A. Dean and S. Lewis, Springer-Verlag (2006), 21-47.
5. D.M. Steinberg, R.S. Kenett, Response surface methods. In *Encyclopedia of Statistics for Quality and Reliability*, Wiley, 2, (2007), 647-656.
6. R.S. Kenett, D.M. Steinberg, Factorial designs. In *Encyclopedia of Statistics for Quality and Reliability*, Wiley, 4, (2007), 1657-1663.

#### **BOOK REVIEWS**

- 1 D.M. Steinberg, Review of *The Design and Analysis of Computer Experiments* by Santner, Williams and Notz, *Biometrics*, **61**, (2005), 319-320.

#### **PUBLICATIONS IN PROCEEDINGS OF CONFERENCES**

1. D.M. Steinberg, Experimental design in off-line quality control. *Proceedings of the 6th International Conference of the Israel Society for Quality Assurance*, Section 6.5.2, 1-7 (1986).
2. D.M. Steinberg, D. Bursztyn, Quality by design using statistically planned experiments. *Proceedings of the 7th International Conference of the Israel Society for Quality Assurance* 2.6.3 1 -- 2.6.3 3 (1988).
3. B. Milman, I. Sirota, D.M. Steinberg, Improving the safety of a pyrotechnic ignitor through a controlled experiment. *Proceedings of the Ninth International Conference of the Israel Society of Quality Assurance* 637-646 (1992).
4. D.M. Steinberg, Quality by design: a review of Taguchi's parameter design experiments. *Proceedings of the Tenth International conference of the Israel Society of Quality Assurance* 931-936 (1994).

5. B. Yoskovich, D.M. Steinberg, Y. Borkowski, Tolerance computations – A statistical approach (in Hebrew). *Proceedings of the 26<sup>th</sup> Israeli Conference on Mechanical Engineering*, 553-555 (1996).
6. J.S. Ishay, L. Litinetsky, E. Rosenzweig, S. Kirshboim, D.M. Steinberg, A. Ben-Shalom, Y. Shabtai, The Oriental hornet: one of nature's solar cells; the thermophotovoltaic (TPV) properties of its cuticle and silk. *Proceedings of the 9<sup>th</sup> Sede Boqer Symposium on Solar Electricity Production*, 13-49 (1999).
7. D.M. Steinberg, R. Kenett, B. Yoskovich, Robust design – quick progress from training to application (in Hebrew). *Proceedings of the 5<sup>th</sup> National Conference of the Israel Society of Quality*, (1999).
8. R.S. Kenett, D.M. Steinberg, Reducing time to market via statistical information management. *Proceedings of the Millenium International Conference of the Israel Society for Quality*, Vol. 1 46-53 (2000).
9. D.M. Steinberg, D. Bursztyn, Rotation designs: Orthogonal first-order designs with higher order projectivity. *Proceedings of the International Symposium on Business and Industrial Statistics*, Yokohama, Japan, 143-150, (2001).
10. R.S. Kenett, D.M. Steinberg, Bootstrapping: A modern approach to analyze designed experiments in six sigma projects. *Proceedings of the 6<sup>th</sup> National Conference of the Israel Society of Quality*, 39-43 (2001).
11. N. Sapiens, D.M. Steinberg, Probabilistic risk assessment for laser safety. *Proceedings of the International Laser Safety Conference*, Marina del Rey, USA 235-242 (2005).
12. G. Nimrod, F. Glaser, D. Steinberg, N. Ben-Tal, T. Pupko, In silico identification of functional regions in proteins. *Proceedings of the 13<sup>th</sup> International Conference on Intelligent Systems for Molecular Biology (ISMB 05)*, *Bioinformatics* vol. **21** Supplement 1 i328-i337 (2005).
13. R.S. Kenett, E. Rahav and D.M. Steinberg, Bootstrap analysis of designed experiments: Part II. *Proceedings of the 5<sup>th</sup> Annual ENBIS Conference*, Newcastle upon Tyne, UK (2005).
14. M. Tripolski, Y. Benjamini and D.M. Steinberg, The false discovery rate for multiple testing in large factorial experiments. *Proceedings of the 5<sup>th</sup> Annual ENBIS Conference*, Newcastle upon Tyne, UK (2005).

## NOTES AND LETTERS

1. G.E.P. Box, D.M. Steinberg, W.J. Hill, Comments on "A maximum likelihood approach to treating error variance instability in Hougen-Watson rate models". *I & EC Fundamentals* **23**, 267 (1984).
2. D.M. Steinberg, G. Leonard, Comment on "Evaluating point concentrations on a map: Earthquakes in the Colorado Lineament". *Geology* **14**, 971-972 (1986).
3. D.M. Steinberg, D. Bursztyn, Comment on "Factor screening and response surface exploration". *Statistica Sinica* **11**, 596-599 (2001).
4. D.M. Steinberg, Discussion of "Design and analysis for the Gaussian process model". *Quality and Reliability Engineering International* **25**, 541-543 (2009).