

Curriculum Vitæ of S. Hedayat

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Education

Ph.D. (Statistics) 1969 Cornell University, Ithaca, New York,
M.S. (Biostatistics) 1966 Cornell University, Ithaca, New York,
B.S. (Bioengineering) 1962 (Honor), University of Tehran, Tehran

Employment

2003-present UIC Distinguished Professor, University of Illinois at Chicago

1974-2003 Professor, University of Illinois at Chicago

1989-90 Visiting Research Scientist, Center for Drug Evaluation and Research, U.S. Food and Drug Administration

1998-1999 Eirik Malmstens Visiting Göteborg University, Sweden Research Professor, Statistics

1981-82 Visiting Research Professor of Statistics, University of California at Berkeley

1973 Summer Visiting Associate Professor, Cornell University

1972-74 Associate Professor, Statistics, Florida State University

1969-72 Assistant Professor, Statistics, Cornell University

1969 Fall Visiting Assistant Professor, Statistics, Michigan State University

Professional Honors

Recipient of the UIC Graduate Colleges Inaugural Graduate Mentoring Awards, 2007

Recipient of the UIC Premier Award for Excellence in Teaching, 2003

UIC Distinguished Professor at University of Illinois, Chicago, appointed 2003

Honorary Member, Iranian Mathematical Society, selected 2003

Awarded Honorary Doctorate by the Universite de Neuchatel, Switzerland, 2002

STINT Swedish Foundation Scholar for international cooperation in research and higher education, 1998-1999

University of Illinois Foundation Senior Scholar, elected 1991

Fellow of The American Statistical Association, elected 1973

Fellow of The Institute of Mathematical Statistics, elected 1975

Member of the International Statistical Institute, elected 1976

Awarded gold medal by Tehran University and the Minister of Higher Education, 1962

Editorships

Annals of Statistics

Associate Editor 1973-1980

Communications in Statistics Series A and B

Editorial Board Member 1975-1993

Associate Editor 1993-2002

Journal of Statistical Planning and Inference

Editorial Board Member 1975-1983

Coordinating Editor 1983-1995

Advisory Editor 1995-2000

Journal of American Statistical Association

Associate Editor 1993-1996; 2000-2009

The American Statistician
Associate Editor 2008-2011

Journal of Linear Algebra and Its Applications
Coeditor with Wayne Barrett, Christian Krattenthaler and
Raphael Loewy the special issue on Determinants and the Legacy
of Sir Thomas Muir, Volume 411 (390 pages) Dec. 2005

Discrete Mathematics
Coeditor with R.A. Brualdi, H. Kharaghani, G.B. Khosrovshahi
and S. Shahriari. International Workshop on Combinatorics,
Linear Algebra, and Graph Coloring, Volume 306, Issue 23 Dec. 2006

Contemporary Mathematics
Coeditor with R.A. Brualdi, H. Kharaghani, G.B. Khosrovshahi
and S. Shahriari. Twentieth Anniversary Conference of IPM,
on Combinatorics, Volume 531 2010

Arab Journal of Mathematical Sciences
Advisory Board Member 1998-present
Student Editorial Board Member 1993-present

Journal of Statistical Theory and Applications
Associate Editor 2012-present

Bulletin of Iranian Mathematical Society
Associate Editor 2003-present

Panel Member

Has served on various NSF and NSA Panels. He is currently serving on Radiological Devices Panel of FDA -The purpose of this panel is to review and to evaluate data concerning the safety and effectiveness of marketed and investigational diagnostic or therapeutic radiological and nuclear medicine devices and makes appropriate recommendations to the Commissioner of Food and Drugs.

Research Funding

Research works of S. Hedayat have been continuously sponsored by one or more grants from NSF, NIH, AFOSR, and contracts from various US industrial and institutional organizations.

Ph.D. Dissertations Directed

1. Dr. John, A. Eccleston, “On the theory of connected designs”, (Cornell University), 1972.
Current position: Professor and Head, Department of Mathematics, The University of Queensland, Australia.
Email: j.eccleston@epsa.uq.edu.au.
2. Dr. Kasra Afsarinejad, “Some contributions to the theory of repeated measurements designs”, (Florida State University), 1973.
Current position: Professor, Principal Scientist, Clinical Science, Biostatistics, Astrazeneca R&D Molndal, S-43183 Molndal, Sweden.
Email: kasra.afsarinejad@astrazeneca.com.
3. Dr. Arlene Ash, “Construction of generalized Youden designs”, (University of Illinois at Chicago), 1977.
Current position: Research Professor, Boston Medical School, Boston, MA.
Email: aash@bu.edu.
4. Dr. Constantine Magda, (Now, Gregory M. Constantine) “On E-optimal block designs and Schur optimality”, (University of Illinois at Chicago), 1977.
Current position: Professor, Mathematics and Statistics Departments, University of Pittsburg, PA.
Email: gmc@vms.cis.pitt.edu.
5. Dr. Walter M. Foody, “Properties, construction, and application of BIB designs with repeated blocks”, (University of Illinois at Chicago), 1979.
Last position: Vice President, Amapa, Champion Papel e Celulose Ltda, Rodovia SP 340-KM171, 13840-970 Mogi Guacu SP, Brasil. Now retired and teaching mathematics in a junior high school in Texas.
Email: wfoody@swbell.net.
6. Dr. Bing-Ying Lang Lin, “On probabilities proportional to size sampling designs: Their construction, algebraic properties and application”, (University of Illinois at Chicago), 1981.
Current position: Professor, Department of Mathematics, National Cheng-Chi University, Taipei, Taiwan.
Email: bylin@math.nccu.edu.tw.
7. Dr. Huey-Luen Ma (Helen) Hwang, “On (k,t) trades and the construction of BIB designs with repeated blocks”, (University of Illinois at Chicago), 1982.
Current position: Principle Technical Staff Member, AT&T, Middletown, NJ.
Email: hwang0203@yahoo.com.
8. Dr. John Stufken, “On optimal and highly efficient designs for comparing test treatments with a control”, (University of Illinois at Chicago), 1986.

Current position: Charles Wexler Professor in Statistics, School of Mathematical and Statistical Sciences, Arizona State University, Tempe, AZ.

Email: John.Stufken@asu.edu.

9. Dr. Wenxun Zhao (Now, William Zhao), “On optimal repeated measurements designs”, (University of Illinois at Chicago), 1989.

Current position: Director, Biostatistics, Baxter Healthcare Corporation, 25212 W. IL Route 120, WG2-3S, Round Lake, IL 60073-0490.

Email: william.zhao@baxter.com.

10. Dr. Kewei Pu, “Contributions to fractional factorial designs”, (University of Illinois at Chicago), 1989.

Current position: Senior Director, Biostatistics and Data Management, Akros Pharma, Princeton, NJ 08540.

Email: kpu@akrospharma.com.

11. Dr. Hegang Chen, “Contributions to experimental designs”, (University of Illinois at Chicago), 1993.

Current position: Professor, Division of Biostatistics and Bioinformatics, School of Medicine, University of Maryland, Baltimore, MD.

Email: hchen@epi.umaryland.edu.

12. Dr. Weiguang Zhang, “Nearly and virtually balanced incomplete block designs”, (University of Illinois at Chicago), 1994.

Last position: Senior Software Engineer, SPSS, Inc. Chicago, IL. (Wei passed away on June 1st, 1998).

13. Dr. Bo Yan, “Modeling and identifying optimum designs for fitting dose-response curves and estimating ED₅₀ based on raw optical density data”, (University of Illinois at Chicago) 1995.

Current position: Director, Head of Biostatistics and Programming, Clinical Sciences and Operations, SANOFI, 5F, No.112, Jian Guo Lu, Chaoyang District, Beijing 100022, China

Email: Bob.Yan@sanofi.com.

14. Dr. Guoqin Su, “On the existence and construction of difference schemes and orthogonal arrays,” (University of Illinois at Chicago) 1996.

Current position: Associate Director of Biostatistics, Novartis Pharmaceutical Corporation, 59 Route 10, East Hanover, NJ 07936-1080.

Email: guoqin.su@novartis.com.

15. Dr. Hairong Crigler, “Distribution-free confidence intervals for finite population quantile intervals in two-stage cluster sampling and an application in waste management”, (University of Illinois at Chicago) 1996.

Current position: Director, Experian Decision Sciences, 4 Gatehall Drive Parsippany, NJ 07054.
Email: Hairong.Crigler@experian.com.

16. Dr. Juhui Jiao, “Hypothesis testing in incomplete risks theory”, (University of Illinois at Chicago) 1997.

Current position: Associate Director, Johnson & Johnson PRD, Raritan, NJ, 08869.
Email: jjiao@its.jnj.com.

17. Dr. Weining Zhao Robieson, “On weighted kappa and concordance correlation coefficient,” (University of Illinois at Chicago), 1999.

Current position: Associate Director, Statistics, Global Pharmaceutical Research and Development, AbbVie Inc., North Chicago, IL.
Email: weining.z.robieson@abbvie.com.

18. Dr. Jinglin Zhong, “Optimal and efficient nonlinear designs and solutions with interpretations to individual bioequivalence”, 2000.

Current Position: Mathematical Statistician, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Silver Spring, MD.
Email: jinglin.zhong@fda.hhs.gov.

19. Dr. Min Yang, “Universal Optimality in Crossover Designs and Statistical Methods in Assessing Agreement”, 2002.

Current position: Professor, Department of Mathematics, Statistics and Computer Science, University of Illinois at Chicago, Chicago, IL 60607
Email: myang2@uic.edu.

20. Dr. Haiyuan Zhu, “Optimal augmented designs and fractional factorial designs”, 2002.

Current position: Director, Statistical Science, Allergan, Plc., Harborside Financial Center, Plaza V, Jersey City, NJ 07311
Email: haiyuan.zhu@allergan.com.

21. Dr. Xu Yan, “Optimal designs in stability studies”, 2004.

Current Position: Mathematical Statistician, Center for Devices and Radiological Health, U.S. Food and Drug Administration, 1350 Piccard Drive, HFZ-542, Rockville, MD 20850
Email: xu.yan@fda.hhs.gov.

22. Dr. Yunfan Deng, “Designs for crossover trials with binary outcomes”, 2005.

Current Position: Mathematical Statistician, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Silver Spring, MD
Email: Yunfan.Deng@fda.hhs.gov.

23. Dr. Wenting Wu, “A Unified Approach for Assessing Agreement”, 2006.

Current Position: Principal Statistician, Astra Zeneca, 1700 Rockville Pike, Rockville, MD 20852
Email: Wenting.Wu@astrazeneca.com.

24. Dr. Xin Fang, “D-optimal Designs for Pharmacokinetic and Combined Pharmacokinetic Pharmacodynamic Models”, 2006.

Current Position: Mathematical Statistician, U.S. Food and Drug Administration, 10903 New Hampshire Avenue, Silver Spring, MD 20903
Email: Xin.Fang@fda.hhs.gov.

25. Dr. Daniel Tancredi, “Design Insights for Epidemiological Studies of Prevalent and Incident Dementia”, 2006.

Current Position: Assistant Professor of Pediatrics, Center for Health Services Research in Primary Care, University of California at Davis
Email: djtancredi@ucdavis.edu.

26. Dr. Congrong (Helen) Lou, “Assessment of Agreement”, 2006

Current Position: Senior Manager, Marketing Information R&D, ACNielsen, Schaumburg, IL
Email: helen.lou@nielsen.com.

27. Dr. Zhiwu Yan, “Crossover Designs for a Self and Simple Mixed Carryover Effects Model with Correlated Errors”, 2006

Current Position: Associate Director, Biostatistics, Onyx Pharmaceuticals, 249 E. Grand Ave., South San Francisco, CA 94080
Email: zyan@amgen.com.

28. Dr. Li Wei, “Stochastic Curtailment Method Under Linear Models”, 2007

Current Position: Senior Research Biostatistician, Bristol-Myers Squibb, Hopewell, NJ
Email: li.wei1@bms.com.

29. Dr. Yuping Dong, “Surveillance Studies on Change Point in Incidence Rate”, 2007

Current Position: Senior Research Biostatistician, Bristol-Myers Squibb, 311 Pennington- Rocky Hill Road, Pennington, NJ, 08534
Email: yuping.dong@bms.com.

30. Dr. Weiya Zhang, “Designs for a Toxicity-Efficacy Model and Inference on a Normal Mean with Known Coefficient of Variation”, 2007

Current Position: Mathematical Statistician, Food and Drug Administration, 10903 New Hampshire Avenue, Silver Spring, MD
Email: weiya.zhang@fda.hhs.gov.

31. Dr. Yuqing Tang, “A Comparison Model for Measuring Individual Agreement”, 2010

Current Position: Mathematical Statistician, U.S. Food and Drug Administration, White Oak cam-

pus, Silverspring, MD
Email: yuqing.tang@fda.hhs.gov.

32. Dr. Ying Zhou, “D-optimal Designs for Complex Nonlinear Models in Chemical Kinetics, PK/PD, and Environmental Science”, 2010
Current Position: Statistician(Research Scientist I), NorthShore University HealthSystem / Clinician Researcher, University of Chicago Pritzker School of Medicine, 2650 Ridge Avenue, Evanston, IL
Email: YZhou@northshore.org.

33. Dr. Wei Zheng, “Optimal and Efficient Crossover Designs for Test-Control Study When Subject Effects are Random”, 2011
Current Position: Assistant Professor of Statistics, Department of Mathematical Sciences, Indiana University-Purdue University, Indianapolis, IN 46202.
Email: weizheng@iupui.edu.

34. Dr. Yue Yu, “Assessment of Agreements in Linear and Generalized Linear Mixed Models”, 2012
Current Position: Quantitative Developer, Tradelink L.L.C., Chicago, IL.
Email: yuyue@trdlnk.com.

35. Dr. Jiewei Zeng, “Optimal Designs for Multi-Exponential Models with Covariance Structure”, 2013
Current Position: Senior Research Statistician, Abbvie Inc., 1 N Waukegan Rd, North Chicago, IL.
Email: jiewei.zeng@abbvie.com.

36. Dr. Tu Xu, “New Developments of Minimum Clinically Important Difference: Theory and Methodology”, 2013
Current Position: Senior Research Statistician, Abbvie, Inc., 1 N Waukegan Rd, North Chicago, IL.
Email: tu.xu@abbvie.com.

37. Dr. Jing Wang, “Adaptive Optimal Two Treatment Crossover Designs with Binary Endpoint”, 2014
Current Position: Independent Statistical Consultant, 268 Benton Lane, Bloomingdale, IL, 60108
Email: runningneptune@gmail.com.

38. Dr. Yan Sun, “A Subgroup Identification Method with Interaction Filtering and Quantitative Criteria”, 2015
Current Position: Senior Research Statistician, Abbvie, Inc., 1 N Waukegan Rd, North Chicago, IL.
Email: sun.yan@abbvie.com.

39. Dr. Ting Yuan, “On the Structured Manifold Optimization: Reduced-Rank and Positive Definite Matrix Estimation”, 2015

Email: tyuan3@uic.edu .

40. Dr. Ling Cheng, Optimal Biomarker-Stratified Design and Adaptive Design in Mixture Distributions , 2016

Current Position: Statistician, Abbvie, Inc., 1 N Waukegan Rd, North Chicago, IL.

Email: ling.cheng@abbvie.com .

41. Dr. Keyu Nie, Studies on Some Inferential Aspects of Graybill-Deal Estimators, 2016

Current Position: Data Scientist, EBay, Product and Retail Insight Team, 2025 Hamilton Avenue, San Jose, California 95125.

Email: knie@ebay.com .

Publications

Books

1. *Factorial Designs* (With W. T. Federer and B. L. Raktoc), Wiley, 1981.
2. *Design and Inference in Finite Population Sampling* (With B. K. Sinha), Wiley, 1991.
3. *Orthogonal Arrays- Theory and Applications* (With N. J. A. Sloane and J. Stufken), Springer-Verlag, 1999.
4. *Statistical Tools for Measuring Agreement* (With L. Lin and W. Wu), Springer- Verlag, 2012.

Articles

5. “An application of group theory to the existence and non-existence of orthogonal Latin squares ” (with W.T.Federer), *Biometrika* **56** (1969), 547-551.
6. “F-square and orthogonal F-square designs: A generalization of Latin square and orthogonal Latin square designs ” (with E. Seiden), *Annals of Mathematical Statistics* **41** (1970), 2035-2044.
7. “The existence and construction of two families of designs for two successive experiments ” (with E. T. Parker and W. T. Federer), *Biometrika* **57** (1970), 351-355.
8. “An easy method of constructing partially replicated Latin square designs of order n for all $n > 2$ ” (with W. T. Federer), *Biometrics* **26** (1970), 327-330.

9. "On the equivalence of Mann's group automorphism method of constructing an $O(n, n - 1)$ set and Raktoe's collineation of constructing a balanced set of l -restrictional prime powered lattice designs " (with W. T. Federer), *Annals of Mathematical Statistics* **41** (1970), 1530-1540.
10. "Some techniques for constructing sets of mutually orthogonal Latin squares " (with W. T. Federer, E. T. Parker, B. L. Rakote, E. Seiden and R. J. Turyn), in *Proceedings of the Fifteenth Conference on Design of Experiments in Army Research Development and Testing, ARO-D Report* (1970), 673-796.
11. "On a method of sum composition of orthogonal Latin squares " (with E. Seiden), *Proceedings of the International Conference on Combinatorial Geometry with Its Applications, Prugia, Italy* (1970), 239-256.
12. "Independent step-wise residuals for testing homoscedasticity " (with D. S. Robson), *Journal of the American Statistical Association* **65** (1970), 1573-1581.
13. "Book Review: An introduction to Finite Projective Planes , by A. A. Albert amd R. Sandler " , *Biometrics* **26** (1970), 162-163.
14. "Book Review: Basic Concepts of Probability and Statistics , 2nd edition, by J. L. Hodges, Jr. and E. L. Lehman " , *Biometrics* **26** (1970), 589-590.
15. "Book Review: Experimental Design: Procedures for the Behavioral Sciences , by Roger and E. Kirk " , *Biometrics* **25** (1970), 590-593.
16. "Book Review: Survey of Applicable Mathematics , by K. Rektorys " , *Biometrics* **26** (1970), 594-596.
17. "Book Review: Patterns and Configurations in Finite Spaces, and The Mathematics of Experimental Design, by S. Vajda (combined review) " , *Annals of Mathematical Statistics* **241** (1970), 1780-1782.
18. "Experimental designs and combinatorial systems associated with Latin squares and sets of mutually orthogonal Latin squares " (with S. S. Shrikhande), *Sankhya, Series A* **33** (1971), 423-432.
19. "A set of three mutually orthogonal Latin squares of order 15 " , *Technometrics* **13** (1971), 696-698.
20. "On embedding and enumeration of orthogonal Latin squares " (with W. T. Federer), *Annals of Mathematical Statistics* **42** (1971), 509-516.
21. "Book Review: Sequences, Combinations, Limits , by S. I. Gelfand and others " , *Biometrics* **27** (1971), 237-238.

22. "An algebraic property of the totally symmetric loops associated with Kirkman-Steiner triple systems " , *Pacific Journal of Mathematics* **40** (1972), 305-309.
23. "Some families of designs for multi-stage experiments: Mutually balanced Youden designs when the number of treatments is prime power or twin primes, I. " (with W. T. Federer and E. Seiden), *Annals of Mathematical Statistics* **43** (1972), 1517-1527.
24. "Book Review: Preservation of Infinite Divisibility under Mixing and Related Topics, by R. W. Stentil, " *Biometrics* **28** (1972), 643-644.
25. "Self-orthogonal Latin square designs and their importance, " *Biometrics* **29** (1973), 393-396.
26. "An application of sum composition: A self-orthogonal Latin square of order ten " , *Journal of Combinatorial Theory, Series A* **14** (1973), 256-260.
27. "Resistant and susceptible BIB designs " (with P. W. M. John), *Annals of Statistics* **1** (1974), 148-158.
28. "On a measure of aliasing due to fitting an incomplete model " (with W. T. Federer and B. L. Raktoe), *Annals of Statistics* **2** (1974), 650-660.
29. " Pairwise and variance balanced incomplete block designs " (with W. T. Federer), *Annals of the Institute of Statistical Mathematics* **26** (1974), 331-338.
30. " On the theory of connected designs: Characterization and optimality " (with J. Eccleston), *Annals of Statistics* **2** (1974), 1238-1255.
31. " On the theory and application of sum composition of Latin squares and orthogonal Latin squares " (with E. Seiden), *Pacific Journal of Mathematics* **54** (1974), 85-113.
32. " On the non-existence of Knut Vik designs for all even orders " (with W. T. Federer), *Annals of Statistics* **3** (1975), 445-447.
33. " Three-way BIB designs " (with D. Raghavarao), *Journal of Combinatorial Theory, Series A* **18** (1975), 207-209 .
34. " Further contributions to the theory of F-squares design " (with D. Raghavarao and E. Seiden), *Annals of Statistics* **3** (1975), 712-716.
35. " Some contributions to the theory of multi-stage Youden designs " (with K. Afsarinejad), *Annals of Statistics* **3** (1975), 707-711.
36. " Self-orthogonal Latin square designs and their importance, II " , *Biometrics* **31** (1975), 755-759.

37. “ Minimal unbiased designs for linear parametric functions ” (with W. T. Federer and B. L. Raktoe), in *A Survey of Statistical Design and Linear Models* , J. N. Srivastava, ed., North-Holland, Amsterdam, 1975, 145-153.
38. “ Repeated measurements designs, I. ” (with K. Afsarinejad), in *A Survey of Statistical Design and Linear Models* , J. N. Srivastava, ed., North-Holland, Amsterdam, 1975, 229-240.
39. “ An application of statistical design theory to crop estimation with special reference to legumes and mixture of cultivars ” (with W. T. Federer, C. C. Lowe and D. Raghavarao), *Agronomy Journal* **68** (1976), 914-919.
40. “ Optimal designs for two noninteractive treatments ” (with R. A. Bradley), *Technometrics* **19** (1977), 52-57.
41. “ A complete solution to the existence and nonexistence of Knut Vik designs and orthogonal Knut Vik designs, ” *Journal of Combinatorial Theory, Series A* **22** (1977), 331-337.
42. “ Examination and analysis of residuals: A test for detecting a monotonic relation between mean and variance in regression through the origin ” (with B. L. Raktoe and P.P. Talwar), *Communications in Statistics, Series A–Theory and Methods* **6** (1977), 497-506.
43. “ On theory and applications of BIB designs with repeated blocks ” (with W. Foody), *Annals of Statistics* **5** (1977), 932-935, Corridendum: *Ibid* **7** (1979), p. 925
44. “ Repeated measurements designs, II ” (with K. Afsarinejad), *Annals of Statistics* **6** (1978), 619-628.
45. “ A generalization of sum composition: Self-orthogonal Latin squares designs with sub-self-orthogonal Latin square designs, ” *Journal of Combinatorial Theory, Series A* **24** (1978), 202-210.
46. “ Hadamard matrices and their applications ” (with W. D. Wallis), *Annals of Statistics* **6** (1978), 1184-1238 .
47. “An introduction to design optimality with an overview of the literature ” (with A. Ash), *Communications in Statistics, Series A–Theory and Methods* **7** (1978), 1295-1325.
48. “ The trade off method in the construction of BIB designs with repeated blocks ” (with Shuo-Yen R. Li), *Annals of Statistics* **7** (1979), 1277-1287.
49. “ Sampling design with reduced support sizes, ” *Optimizing Methods in Statistics* , J. Rustagi , ed., Academic Press, 1979, 273-288.
50. “ An algebraic study of BIB designs: A complete solution for $v = 6$ and $k = 3$ ” (with G. B. Khosrovshahi), *Journal of Combinatorial Theory, Series A* **30** (1979), 43-52.

51. "The family of t-designs: Part I. " (with S. Kageyama), *Journal of Statistical Planning and Inference* **4** (1980), 173-212.
52. "Combinatorial topology and the trade off method in BIB designs " (with Shuo-Yen R. Li), *Annals of Discrete Mathematics* **6** (1980), 189-200.
53. "Study of optimality criteria in design of experiments, " *Statistics and Related Topics*, M. Csorgo, D. A. Dawson, J. N. K. Rao, and A. K. Md. E. Saleh, eds., North Holland Publishing Co., 1981, 39-56.
54. "Repeated measurements designs, IV: Recent advances " , *Proceedings of the 43rd Session of the International Statistical Institute*, vol. XLIX, Bulletin of the International Statistical Insititute, 1981, 591-610.
55. "A construction of repeated measurements designs with balance for residual effects " (with G. M. Constantine), *Journal of Statistical Planning and Inference* **6** (1982), 153-164.
56. "Complete designs with blocks of maximal multiplicity " (with G. M. Constantine), *Journal of Statistical Planning and Inference* **7** (1983), 289-294, *Corrigendum: Ibid* **7** (1983), 417.
57. "The family of t-designs: Part II " (with S. Kageyama), *Journal of Statistical Planning and Inference* **7** (1983), 257-287.
58. "An algorithm for generating a basis of the trades on t-designs " (with H. Hwang), *Communications in Statistics, Series B—Simulation and Computation* **12** (1983), 109-125.
59. "BIB(8, 56, 21, 3, 6) and BIB(10, 30, 9, 3, 2) designs with repeated blocks " (with H. L. Hwang), *Journal of Combinatorial Theory, Series A* **36** (1984), 73-91.
60. "Construction of BIB designs with various support sizes—with special emphasis for $v = 8$ and $k = 4$ " (with H. L. Hwang), *Journal of Combinatorial Theory, Series A* **36** (1984), 163-173.
61. "A unified method for constructing PBIB designs based on triangular and L2 schemes " (with C. S. Cheng and G. M. Constantine), *Journal of the Royal Statistical Society: Series B* **46** (1984), 31-37.
62. "A characterization of a universally optimal design within a class of block designs ," *Journal of Statistical Planning and Inference* **9** (1984), 143-145.
63. "Pairwise orthogonal F-rectangle designs " (with W.T. Federer and J.P. Mandili), *Journal of Statistical Planning and Inference* **10** (1984), 365-374.
64. "Orthogonal F-rectangles for all even v " (with W.T. Federer), *Calcutta Statistical Association Bulletin* **33** (1984), 85-92.

65. "A-optimal incomplete block designs for control-test treatment comparisons " (with D. Majumdar), *Technometrics* **26** (1984), 363-370.
66. "Redesigning experiments " (with D. Majumdar), in *Developments in Statistics and Its Applications* Proceedings of the First Saudi Symposium on Statistics and Its Applications, A.M. Abouammoh, E. El-Neweihi, E. Aly and M. A. Alish, eds., King Saud Univ. Library, Riyadh, Saudi Arabia, 1984, 113-140.
67. "A study of BIB designs through support matrices, (H. Pesotan) " *Journal of Statistical Planning and Inference* **11** (1985), 363-372.
68. "Families of A-optimal block designs for comparing test treatments with a control " (with D. Majumdar), *Annals of Statistics* **13** (1985), 757-767.
69. "Combining experiments under Gauss-Markov models " (with D. Majumdar), *Journal of The American Statistical Association* **80** (1985), 698-703.
70. "Characterization of triply balanced matrices with applications to survey sampling " (with H. Pesotan), *Journal of Statistical Planning and Inference* **15** (1986), 11-17.
71. "Fractional factorial designs in the form of incomplete orthogonal arrays " (with J. Stufken), in *Statistical Design: Theory and Practice*, C. E. McCulloch, S. J. Schwager, G. Casella and S. R. Searle, eds., Cornell University Press, 1986, 101-115.
72. "On a statistical optimality of magic squares, " *Statistics & Probability Letters* **5** (1987), 191-192.
73. "Model robust optimal designs for comparing test treatments with a control " (with D. Majumdar), *Journal of Statistical Planning and Inference* **18** (1987), 25-33.
74. "Designs for survey sampling avoiding contiguous units " (with C. R. Rao and J. Stufken), in *Handbook of Statistics*, P. R. Krishnaiah and C. R. Rao, eds., vol. 6, North-Holland, Amsterdam, 1988, 575-583.
75. "Sampling plans excluding contiguous units " (with C.R. Rao and J. Stufken), *Journal of Statistical Planning and Inference* **19** (1988), 159-170.
76. "Two-symbol orthogonal arrays " (with J. Stufken), in *Optimal Design and Analysis of Experiments*, Y. Dodge, V. V. Fedorov and H. P. Wynn, eds., Elsevier Science Publishers, B. V, North-Holland, 1988, 47-58.
77. "A graphical proof of the nonexistence of BIB $(7, b, r, 3, \lambda | 16)$ designs " (with W. Foody), *Journal of Statistical Planning and Inference* **20** (1988), 77-90.
78. "Optimal designs for comparing test treatments with controls, [with discussions] " (with M. Jacroux and D. Majumdar), *Statistical Science* **3** (1988), 462-491.

79. "Block designs—a review on combinatorics " (with S. Kageyama), in *Proceedings of International Conference on Population Mathematics*, Rasch, Pirchner and Adams, ed., Rostock, D. D. R, 1988, 88-118.
80. "On the maximum number of constraints in orthogonal arrays " (with J. Stufken), *Annals of Statistics* **17** (1989), 448-451.
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