



Ali S. Hadi
Vice Provost and
Director of Graduate Studies and Research
The American University in Cairo

Stephen H. Weiss Presidential Fellow
and Professor Emeritus
Cornell University

AUC Address (September to May):

Department of Mathematics
The American University in Cairo
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Cornell Address (June to August):

Department of Statistical Sciences
Cornell University
358 Ives Hall,
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Education

New York University:

Ph.D. (With Honors) Statistics, May 1984

Major: Statistics and Operations Research

Minor: Computer Applications and Information Systems

Master of Philosophy, Statistics, May 1982

Master of Science, Statistics, May 1980

Ain Shams University (Cairo, Egypt)

Bachelor of Science, May 1972

Scholastic Honors and Awards:

1. 2001: The paper "Some Applications of Functional Networks in Statistics and Engineering" received the "2001 Technometrics Invited Paper Award" and was presented as such at the 2001 Joint Annual Meetings of five statistical societies.
2. 2000: Who's Who Among America's Teachers.
3. 1998: Named the Stephen H. Weiss Presidential Fellow, Cornell University.
4. 1998: Elected Member of the International Statistical Institute.
5. 1997: Elected Fellow of the American Statistical Association.
6. 1997: The Schering-Plough Award for Exemplary Teaching, School of Industrial and labor Relations, Cornell University.
7. 1993: Outstanding Educator Award for having most influenced a Merrill Presidential Scholar, Cornell University.
8. 1992: One of two university-wide faculty who received the Amoco Foundation Faculty Award in recognition of demonstrated superior teaching skills over a period of several years, Cornell University

9. 1991: Elected as an honorary member of the Golden Key National Honors Society in recognition of dedication and commitment to teaching.
10. 1984: The Herman E. Krooss Award: Given to Ph.D. graduate who has completed the course of studies with distinction and has presented an outstanding doctoral dissertation.
11. 1983: The Institute of Management Sciences, Metropolitan New York Chapter's Outstanding Achievements Award.

Academic Appointments:

- 2000–present **Professor**
Department of Mathematics
The American University in Cairo
113 Kasr El-Aini Street
P. O. Box 2511,
Cairo 11511, Egypt
- 2002–present **Emeritus Professor**
1996–2002 **Professor**
1994–1998 **Department Chair**
1990–1996 **Associate Professor**
1984–1990 **Assistant Professor**
Department of Social Statistics,
Cornell University,
Ithaca, NY 14853-3901, USA
- 1983–1984 **Instructor**
1980–1983 **Research Assistant**
Department of Statistics and Operations Research
Stern School of Business
New York University,
44 West 4th Street
New York, NY 10012-1126

Short-Term Appointments:

- January 98–05 **Visiting Professor** (Every January since 1998)
Department of Statistics
University of Neuchâtel
Place de la Gare 10, Case Postale 1825.
Ch-2002, Neuchâtel,
Switzerland.
- Spring 1999 **Visiting Professor**
School of Engineering
University of Castilla La Mancha
Paseo Universidad s/n
13071 Ciudad Real,
Spain

- Fall 1998 **Distinguished Visiting Professor**
School of Sciences and Engineering
The American University in Cairo
113 Kasr El Aini Street, Box 2511
11511, Cairo, Egypt
- Spring 1994 **Visiting Professor**
Department of Statistics and Econometrics
Faculty of Social and Judicial Sciences
Carlos III University of Madrid
Calle Madrid, 126, 28903 Getafe, Spain
- 1993–1994 **Visiting Professor**
Department of Applied Mathematics and Computing Science
Faculty of Civil Engineering
University of Cantabria
39005 Santander, Spain
- Summer 1991 **Visiting Professor**
Department of Statistics
University of Umeå,
S-901 87 Umeå, Sweden
- March 1991 **Distinguished Visiting Professor**
Department of Mathematical Sciences
College of Sciences, Clemson University
Clemson, SC 29634-1907, USA
- Summer 1985 **Visiting Assistant Professor**
Statistics and Operations Research Department
Stern School of Business
New York University, 44 West 4th Street
New York, NY 10012-1126, USA

Administrative Experience:

- **Vice Provost and Director of Graduate Studies and Research** (2006–Present):
The American University in Cairo
- **Director, Actuarial Science Program** (2004–Present):
Department of mathematics, The American University in Cairo
- **Department Chair** (1994–1998): Department of Social Statistics, Cornell University
- **Committees:** Served on several departmental, school and university-wide ad hoc and standing committees at both Cornell University (1984–2002) and the American University in Cairo (2000–present).

- **Chef/Manager:** French/Continental restaurants in New York, 1975–80.
- **Customs Officer:** Customs Administration, Cairo International Airport, Cairo, Egypt, 1972–1975.

Research Areas:

Linear and nonlinear models; Multivariate analysis; Parameter and quantile estimation; Robust statistics and outlier detection; Statistical computing and graphics; Expert systems; Uncertainty in artificial intelligence; Bayesian, Markov, and Neural network models; Environmetrics, Matrix algebra, and Simulation.

Courses Taught:

Introductory Statistics, Probability Theory, Mathematical Statistics, Regression Analysis, Advanced Topics in Regression, Multivariate Analysis, Graphical Methods for Data Analysis, Matrix Algebra, Calculus and Analytic Geometry, Operations Research, and Expert Systems and Probabilistic Network Models.

Students Supervised:

- Served as a Committee Chairman for the following graduate students: Ahmed Alzahrani, Emad El-Sebakhy, Sahar El-Sheneity, Brian Jersky, Hyeseon Joo, and Pascale Voldman.
- Served as a Committee member for the following graduate students: Hassan Abu-Libdeh, Richard Cleary, Mary Dowling, Jody Enk, Diane Johnson, Douglas Morrice, Patricia Moy, Jong Reem, Gad Saad, John Walker, and Yoshio Yanadori.
- Served as an external examiner for the following Ph.D. candidates:
Habshah Midi, University of Kebangsaan, Malaysia, 1995
Tarit Kanti Saha, McMaster University, Canada, 1995
J. M. Gutiérrez, University of Cantabria, Spain, 1994
- Served as an external advisor for the following Master of Science degree candidates:
Cédric Beguin, University of Neuchâtel, Switzerland, 2002

Professional Service Activities:

- Elected Fellow of the American Statistical Association, Elected Member of the International Statistical Institute, Fellow of the Royal Statistical Society, and Member of the Institute of Mathematical Statistics, the Egyptian Mathematical Society, the American Association for Artificial Intelligence, the International Association for Statistical Computing, the Association of Computing Machinery, and the International Environmetrics Society.
- Editor-In-Chief, A special issue of the International Journal of Statistical Sciences (2004-2006)

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- Associate Editor, *TEST: The Spanish Journal of Statistics*, 2002–2005.
 - Co-founding Editor, *Journal of Economic and Social Research*, 1998–present.
 - Editor, TIES Newsletter of *The International Environmetrics Society*, 1996–2000.
 - Associate Editor, *Journal of the International Environmetrics Society*, 1992–present.
 - Associate Editor, *Benchmarking for Quality Management and Technology*, 1993–2005.
 - Associate Editor, *Journal of Statistical Studies*, 1993–2004.
 - Elected member of the Board of Directors, the *International Environmetrics Society*, 1999–2000.
 - Elected member of the Board on the International Association for Statistical Computing, 1997–2000.
 - Advisory Editorial Board member for ERC Press, 1992–2000.
 - Panel member, the United States Environmental Protection Agency, 1996 and 1998.
 - Chair of the Statistical Computing Session on “*Desktop Computers and Data Analysis*” at the Joint Annual Statistical Meetings, Anaheim, CA, August 1990.
 - Prepublication book reviews for several publishers. Reviewed grant proposals for the National Science Foundation. Reviewed numerous manuscripts for the following professional journals: *Journal of the American Statistical Association*, *The Annals of Statistics*, *Journal of Business & Economic Statistics*, *Sankhya*, *Journal of Econometrics*, *Journal of Computational Statistics & Data Analysis*, *Biometrics*, *Technometrics*, *Communications in Statistics*, *Journal of Environmetrics*, *Journal of Official Statistics*, *Journal of Statistical Computation and Simulation*, *Journal of Applied Statistical Sciences*, *Mathematical Geology*.
 - Chair of the Statistical Computing Session on “*The Analysis of Variance*” at the Joint Annual Statistical Meetings, San Francisco, CA, August 1987.

Invited Presentations

- March 2005 Presented an Invited Lecture, “Sensitivity Analysis in Estimation Problems” at the Seventeenth Annual Conference on Statistics and Computer Modeling in Human and Social Sciences, Cairo University.
- March 2004 Presented an Invited Lecture, “On the Specification of Very Large, Complex Probabilistic Models” at the Sixteenth Annual Conference on Statistics and Computer Modeling in Human and Social Sciences, Cairo University.

- December 2003 Presented an Invited Lecture on “Modeling Extreme Events Data” at the 38th Annual Conference on Statistics, Computer Science, and Operations Research, Cairo University.
- April 2003 Presented an Invited Lecture on “Recent Methods for the Detection of Unusual Observations in Statistical Data” at the Department of Applied Mathematics, School of Engineering, Cantabria University, Spain.
- March 2003 Presented an Invited Lecture on “Bayesian Network Models and Their Applications” at the Fifteenth Annual Conference on Statistics and Computer Modeling in Human and Social Sciences, Cairo University.
- November 2002 Presented an Invited Lecture on “Some Applications of Functional Networks in Statistics and Engineering” at the Fourteenth Annual Conference on Statistics and Computer Modeling in Human and Social Sciences, Cairo University.
- August 2001 Presented the “2001 Technometrics Invited Paper” at the 2001 Joint Annual Meetings of five statistical.
- August 2000 Presented an Invited Lecture at the Annual Meeting of The American Statistical Association, Indianapolis, Indiana.
- August 1999 Presented a Special Invited Lecture at the Annual Meeting of the International Environmetrics Society, Athens, Greece.
- March 1999 Presented four lectures on Robust Regression Diagnostics at the Department of Mathematics, Statistics, and Operations Research, La Laguna University, Tenerife, Canary Islands, Spain.
- February 1999 Presented three public lectures at the Department of Mathematics, Cukurova University, Adana, Turkey.
- Fall 1998 Presented three public lectures as a Distinguished Visiting Professor at the American University in Cairo.
- July 1996 Invited by the University of Cantabria, Laredo, Spain to teach a short courses on “Current Trends in Expert Systems and Network Models”
- February 1996 Presented five seminars at the Department of Statistics, La Laguna University, Tenerife , Canary Islands, Spain.
- November 1995 Presented two seminars at the Department of Statistics, Kuwait University.
- December 1994 A seminar on “Sensitivity Analysis in Statistics,” presented at the School of Engineering, University of Cantabria, Santander, Spain.
- April 1994 A seminar on “An Overview and Recent Developments in Regression Diagnostics,” presented at the University of Valencia, Valencia Spain.

- March 1994 A seminar on "Identification of Outliers in Multivariate Samples," presented at the Department of Statistics and Econometrics, Carlos III University of Madrid.
- March 1992 The main speaker in the Umeå University Winter Conference, Kittelfjall, Sweden.
- December 1991 Presented three seminars at the Department of Statistics, King Saud University, Riyadh, Saudi Arabia, December 1991.
- June 1991 Presented three seminars during at the Department of Statistics, University of Umeå, Sweden.
- May 1991 A seminar on "An Afternoon Full of Diagnostics for Regression and Multivariate Data," presented at the Department of Mathematical Sciences, University of Tampere, Tampere, Finland.
- May 1991 A seminar on "A Statistical Analysis of Employment Discrimination Data," presented at the School of Business Studies, University of Vaasa, Vaasa, Finland.
- March 1991 Presented one public lecture and two technical lectures as part of my Distinguished Visiting Professorship at the Department of Mathematical Sciences, Clemson University, Clemson, SC.

Invited to teach a short courses on "*Sensitivity Analysis in Linear Regression*", "*Modern Data Analysis*", and "*Graphical Methods for Data Analysis*" by the following:

- The International Statistical Institute's 48th Session, Cairo, Egypt, 1991.
- The Energy Information Agency, Washington, DC, 1989.
- The Forty-Fourth Conference on Applied Statistics, American Society for Quality Control, Atlantic City, NJ, 1988.
- The Thirty-Fourth Conference on the Design of Experiments, Las Cruces, NM, 1988.

Seminars and Contributed Papers

- April 2005 "Local Sensitivity Analysis in Estimation Problems" presented at the Fourth International Symposium on Business and Industrial Statistics, in Palm Cove, Tropical North Queensland, Australia.
- June 2004 "Sensitivity Analysis in Reliability Based Optimization Design," presented at the Fourth International Conference on Mathematical Methods in Reliability, in Santa Fe, New Mexico.
- February 2001 "An Elemental Percentile Method for Estimating Parameters and Quantiles of Continuous Distributions of Random Variables" presented at the Department of Statistics, Faculty of Economics and Political Sciences, Cairo University.

- August 1997 "A More Robust Outlier Identifier for Regression Data," presented at the International Statistical Institute's 51st Session, Istanbul, Turkey.
- August 1997 "Frechet Distance as a Diagnostic Tool for Diagnosing Elliptically Symmetric Multivariate Data," presented at the Sixth International Workshop on "Matrix Methods for Statistics," Istanbul, Turkey.
- August 1997 "Improving Search-Based Inference in Bayesian Networks: Application to the MAP Problem," presented at the Eighth International Conference of The International Environmetrics Society, Innsbruck, Austria.
- August 1997 "A Tutorial Introduction to Expert Systems and Their Applications," presented at the Eighth International Conference of The International Environmetrics Society, Innsbruck, Austria.
- December 1996 "Expert Systems and Uncertainty in Artificial Intelligence", presented at the 31st Annual Conference on Statistics, Computer Science, and Operations Research, Cairo, Egypt.
- December 1996 Presented two seminars at the Faculty of Commerce, Ain Shams University, Cairo, Egypt.
- December 1996 "Outliers Detection in Multivariate and Regression Data" presented at the Department of Statistics, Faculty of Economics and Political Sciences, Cairo University.
- December 1996 Presented two seminars at the Department of Mathematics, Faculty of Science, Mansura University, Mansura, Egypt.
- September 1996 "Outlier Detection in Regression and Multivariate Data," presented at the First NIU Symposium on Statistical Science, DeKalb, IL.
- August 1996 "Some Cautionary Notes on the Use of Principal Components Regression," presented at the Joint Annual Statistical Meetings, Chicago, IL.
- December 1995 "Statistical Analysis of Extreme Wave Heights," presented at the Sixth International Conference on Environmetrics sponsored by The International Environmetrics Society, Kuala Lumpur, Malaysia.
- November 1995 "Point Estimation by Maximum Trimmed Likelihood," International Conference on Pure and Applied Mathematics, Bahrain.
- March 1995 "Propagation of Uncertainty in Expert Systems," presented at the Statistics Center, Cornell University.
- February 1995 "Modeling Fatigue Life-Time Data," a colloquium presented at the Operations Research and Industrial Engineering, Cornell University.

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- January 1995 “Point Estimation by Maximum Trimmed Likelihood,” presented at the Statistics Center, Cornell University.
- August 1994 “A Method for Estimating Parameters and Quantiles of Continuous Distributions of Random Variables,” presented at the Joint Annual Statistical Meetings, Toronto.
- August 1994 “Parameter and Quantile Estimation for the Generalized Extreme-Value Distribution,” presented at the Fifth International Conference on Environmetrics sponsored by The International Environmetrics Society, Burlington, Ontario.
- June 1994 “Detection of Outliers in Biocybernetics and Biomedical Engineering Data,” presented at the Conference on Statistics and Clinical Practice, Warsaw, Poland.
- August 1993 “Empirical Evaluations of Viable Methods for the Identification of Outliers in Multivariate Data,” presented at the International Statistical Institute's 49th Session, Florence, Italy.
- August 1992 “Procedures for the Identification of Multiple Outliers in Linear Models,” presented at the Fourth International Conference on Environmetrics sponsored by The International Environmetrics Society, Ispoo, Finland. Also presented at the Department of Mathematical Sciences, University of Tampere, Tampere, Finland.
- February 1991 “Identifying Multiple Outliers in Multivariate Samples,” presented at the Statistics Center, Cornell University, Ithaca, NY. Also given at the Labor Economics Workshop, New York State School of Industrial and Labor Relations, Cornell University, Ithaca, NY, April 1991.
- September 1990 “A New Measure of Overall Potential Influence in Linear Regression with Applications to Environmental Data,” presented at the Second International Conference on Environmetrics sponsored by The International Environmetrics Society, Como, Italy.
- August 1990 “A Stepwise Procedure for Identifying Multiple Outliers and Influential Observations in Regression,” presented at the Joint Annual Statistical Meetings, Anaheim, CA.
- August 1990 “The Kodiak Island King Crab Fishery: A Graphical and Analytical Data Analysis,” presented at the Joint Annual Statistical Meetings, Anaheim, CA.
- September 1989 “Two Graphical Displays for the Detection of Potentially Influential Subsets in Regression,” presented at the 47th Session of the International Statistical Institute, Paris, France.
- August 1989 “Reconciling Different Concepts of Fairness in Employment Decisions,” presented at the Joint Annual Statistical Meetings, Washington, D.C.

- April 1989 “On Generalized Wald's Test,” a seminar given at the Department of Statistics, Operations Research, and Actuarial Science, Stern School of Business, New York University, New York, NY.
- November 1988 “How Fair Can Employers Be?,” a seminar given at the Labor Economics Workshop, New York State School of Industrial and Labor Relations, Cornell University, Ithaca, NY.
- August 1988 “Assessing the Effects of Multiple-Rows on the Condition Number of a Matrix,” presented at the Joint Annual Statistical Meetings, New Orleans, LA.
- August 1988 “Minimum Distance Method of Estimation and Testing When Statistics Have Limiting Singular Multivariate Normal Distribution,” presented at the Annual Meeting of the Institute of Mathematical Statistics, Fort Collins, CO.
- August 1987 “The Influence of a Single Row on the Eigenstructure of a Matrix,” presented at the Joint Annual Statistical Meetings, San Francisco, CA.
- April 1987 “Diagnosing Collinearity Influential Observations,” a seminar cosponsored by the Cornell Institute for Social and Economic Research, Ithaca, NY.
- August 1986 “The Prediction Matrix: Its Properties and Role in Data Analysis,” presented at the Joint Annual Statistical Meetings, Chicago. IL.
- April 1986 “Impact of Simultaneous Deletion of a Variable and an Observation on a Linear Regression Equation,” presented at the Fourth Sheffield Conference on Influential Data Analysis, University of Sheffield, Sheffield, England
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Publications

(a) Books:

- Castillo, E., Hadi, A. S., Balakrishnan, N., and Sarabia, J. M. (2005), *Extreme Value and Related Models with Applications in Engineering and Science*, John Wiley & Sons.
- Chatterjee, S., Hadi, A. S., and Price B. (2000), *Regression Analysis by Example*, (3rd Edition) New York: John Wiley & Sons. Translated into Chinese and published by China Statistics Press of The People's Republic of China.
- Castillo, E., Gutiérrez, J. M., and Hadi, A. S. (1997), *Expert Systems and Probabilistic Network Models*, New York: Springer-Verlag. Translated to Spanish and published by the Spanish Academy of Engineers.
- Hadi, A. S. (1996), *Matrix Algebra as a Tool*, Belmont, CA: Duxbury Press.

- Chatterjee, S. and Hadi, A. S. (1988), *Sensitivity Analysis in Linear Regression*, New York: John Wiley & Sons.

(b) Book Chapters:

- Castillo, E., Castillo, C., Hadi, A. S., and Sarabia, J. M. (2005), “Some New Methods for Local Sensitivity Analysis in Statistics,” in *Advances on Distribution Theory, Order Statistics and Inference*, (N. Balakrishnan and E. Castillo, Eds.), Boston: Birkhäuser Boston, Inc., (in press).
- Castillo, E. and Hadi, A. S. (2000), “Some Probability Concepts for Engineers,” in *Handbook of Industrial Automations*, (E. L. Hall and R. L. Shell, Eds.), New York: Marcel Dekker, 1–32.
- Castillo, E., Gutiérrez, J. M., and Hadi, A. S. (1998), “Algunas Aplicaciones de las Redes Bayesianas en Ingeniería,” in *Sistemas Expertos Probabilísticos* (I. R. Salavert, ed.), Universidad de Castilla-La Mancha, Spain, 265–301.
- Hadi, A. S., and Son, M. S. (1997), “Detection of Unusual Observations in Regression and Multivariate Data,” Chapter 13 in *Handbook of Applied Economic Statistics*, (A. Ullah and D. E. A. Giles, Eds.), New York: Marcel Dekker, 441–463.
- Hadi, A. S. (1993), “Graphical Methods for Linear Models,” Chapter 23 in *Handbook of Statistics: Computational Statistics*, (C. R. Rao, Ed.), Vol. 9, North-Holland Publishing Company, 775–802.

(c) Book Reviews:

- Hadi, A. S. (2003), “A Review of *Building and Solving Mathematical Programming Models in Engineering and Science* by E. Castillo, A. J. Conejo, P. Pedrigal, R. Garcia, and N. Alguacil,” New York: John Wiley & Sons, *IIE Transactions*, **35**, 918–919.
- Hadi, A. S. (1992), “A Review of *Finding Groups in Data: An Introduction to Cluster Analysis* by L. Kaufman and P. J. Rousseeuw, New York: John Wiley & Sons,” *Technometrics*, **34**, 1, 111–112.

(d) Articles Published:

- Kondylis, A. and Hadi, A. S. (2006), “Derived Components Regression Using the BACON Algorithm,” *Computational Statistics and Data Analysis*, (in press).
- Billor, N., Chatterjee, S., and Hadi, A. S., (2006), “A Re-Weighted Least Squares Method for Robust Regression Estimation,” *American Journal of Mathematical and Management Sciences*, **26**, (in press).

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- Castillo, E. and Hadi, A. S. (2006), “Bayesian Networks,” in *Encyclopedia of Statistical Sciences*, Second Edition, (Samuel Kotz, N. Balakrishnan, Campbell B. Read and Brani Vidakovic, eds.), 1, 425–435.
 - Castillo, E. and Hadi, A. S. (2006), “Functional Networks,” in *Encyclopedia of Statistical Sciences*, Second Edition (Samuel Kotz, N. Balakrishnan, Campbell B. Read and Brani Vidakovic, eds.), 4, 2573–2583.
 - Castillo, E. and Hadi, A. S. (2006), “Markov Networks,” in *Encyclopedia of Statistical Sciences*, Second Edition (Samuel Kotz, N. Balakrishnan, Campbell B. Read and Brani Vidakovic, eds.), 7, 4535–4546.
 - Minguéz, R., Castillo, E., and Hadi, A. S., (2005), “Solving the Inverse Reliability Problem Using Decomposition Techniques,” *Structural Safety*, 27, 1–23
 - Castillo, E., Hadi, A. S., Conejo, A., and Fernández-Canteli, A., (2004), “A General Method for Local Sensitivity Analysis with Application to Regression Models and Other Optimization Problems,” *Technometrics*, 46, 430–444.
 - Minguéz, R., Castillo, E. and Hadi, A. S. (2004), “Sensitivity Analysis in Reliability Based Optimization,” in *Proceedings of the Fourth International Conference on Mathematical Methods in Reliability*, Santa Fe, New Mexico, World Scientific Publishing, *Series on Quality, Reliability and Engineering Statistics*, (in press).
 - Castillo, E. and Hadi, A. S. (2004), “On the Specification of Very Large, Complex Probabilistic Models,” *Proceedings of the Sixteenth Annual Conference on Statistics and Computer Modelling in Human and Social Sciences*, Cairo University (in press).
 - Castillo, E., Castillo, C., Hadi, A. S., and Sarabia, J. M., (2004), “Some New Methods for Local Sensitivity Analysis in Statistics,” *Proceedings of the International Conference on Distribution Theory, Order Statistics and Inference in Honor of Barry C. Arnold*, June 16–18, 2004, 1–15.
 - Castillo, E. and Hadi, A. S. (2003), “Modelling Extreme Events Data” *Proceedings of the 38th Annual Conference on Statistics, Computer Science, and Operations Research*, Cairo University, 1–14.
 - Castillo, E., Hadi, A. S., Lacruz and, B., and Pruneda, R. E. (2003), “Functional Network Models in Statistics,” *Monografías del Seminario Matemático García de Galdeano*, 27, 174–177.
 - Billor, N., Hadi, A. S., and Kiral, G. (2003), “A Comparison of Multiple Outlier Detection Methods for Regression Data,” *Proceedings of the Statistical Computing Section, American Statistical Association*, 1718–1723.

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- Castillo, E. and Hadi, A. S. (2003), “Bayesian Network Models and Their Applications,” *Proceedings of the Fifteenth Annual Conference on Statistics and Computer Modeling in Human and Social Sciences*, Cairo University, 1–16.
 - Hadi, A. S. and Nyquist, H. (2002), “Sensitivity Analysis in Statistics,” *Journal of Statistical Studies: A Special Volume in Honor of Professor Mir Masoom. Ali's 65th Birthday*, 125–138.
 - Castillo, E., Hadi, A. S., Lacruz, B., and Sarabia, J. M. (2002), “Constrained Mixture Distributions,” *Metrika*, 55, 247–269.
 - Castillo, E. and Hadi, A. S. (2002), “Neural and Functional Networks and Their Applications,” *Proceedings of the Fourteenth Annual Conference on Statistics and Computer Modeling in Human and Social Sciences*, Cairo University, 1–12.
 - Castillo, E., Hadi, A. S., Lacruz, B., and Sarabia, J. M. (2001), “Regression Diagnostics for the Least Absolute Value and the Minimax Methods,” *Communications in Statistics: Theory and Methods*, 30, 6, 1197–1225.
 - Castillo, E., Gutiérrez, J. M., Hadi, A. S., and Lacruz, B. (2001), “Some Applications of Functional Networks in Statistics and Engineering,” *Technometrics*, 43, 10–24. This paper received the “**2001 Technometrics Invited Paper Award**” and was presented as such at the Joint Annual Meetings of five statistical societies in Atlanta, GA (August 7, 2001).
 - Castillo, E., Hadi, A., and Lacruz, B. (2001) “Optimal Transformations in Multiple Linear Regression Using Functional Networks,” *Proceedings of the International Work-Conference on Artificial and Natural Neural Networks. IWANN 2001*, in *Lecture Notes in Computer Science* 2084, Part I, 316–324.
 - Billor, N., Chatterjee, S., and Hadi, A. S. (2001), “Iteratively Re-weighted Least Squares Method for Outlier Detection in Linear Regression,” *Bulletin of the International Statistical Institute*, 1, 479–480.
 - Billor, N., Hadi, A. S., and Velleman, P. F. (2000), “BACON: Blocked Adaptive Computationally-Efficient Outlier Nominators,” *Computational Statistics and Data Analysis*, 34, 279–298.
 - Castillo, E., Cobo, A., Gómez-Nesterkín, and Hadi, A. S. (2000), “A General Framework for Functional Networks,” *Networks*, 35, 70–82.
 - Castillo, E., Hadi, A. S., and Sarabia, J. M. (1999), “A Constrained Optimization Method for Fitting Prediction Models,” *Journal of Economic and Social Research*, 1, 35–63.
 - Dodge, Y. and Hadi, A. S. (1999), “Simple Graphs and Bounds for the Elements of the Hat Matrix,” *Journal of Applied Statistics*, 26, 817–823.

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- Hadi, A. S. and Nyquist, H. (1999), “Frechet Distance as a Tool for Diagnosing Elliptically Symmetric Multivariate Data,” *Linear Algebra and Its Applications*, 289, 183–201.
 - Castillo, E., Fernández-Canteli, A., and Hadi, A. S. (1999), “On Fitting a Fatigue Model to Data,” *International Journal of Fatigue*, 21, 97–106.
 - Castillo, E., Hadi, A. S., Jubete, F., and Solares, C. (1999), “An Expert System for Coherent Assessment of Probabilities in Multigraph Models,” *Networks*, 33, 193–206.
 - Castillo, E., Hadi, A. S., and Sarabia, J. M. (1998), “A Method for Estimating Lorenz Curves,” *Communications in Statistics, Theory and Methods*, 27, 2037–2063.
 - Hadi, A. S. (1999), “An Interesting Property of Mahalanobis Distances,” *Econometric Theory*, Problem 99.1.2, 15, 151–152.
 - Castillo, E., Gutiérrez, J. M., and Hadi, A. S. (1998), “Improving Search-Based Inference in Bayesian Networks with Application to the MAP Problem,” *Proceedings of the Eleventh International Florida Artificial Intelligence Research Symposium*, 405–409.
 - Hadi, A. S. and Ling, R. F. (1998), “Response to Cuadras’ LTE,” *The American Statistician*, 52, 371.
 - Hadi, A. S. and Ling, R. F. (1998), “Some Cautionary Notes on the Use of Principal Components Regression,” *The American Statistician*, 52, 15–19.
 - Castillo, E., Gutiérrez, J. M., and Hadi, A. S. (1998), “Modeling Probabilistic Networks of Discrete and Continuous Variables,” *Journal of Multivariate Analysis*, 64, 48–65.
 - Hadi, A. S. and Velleman, P. F. (1997), “Computationally Efficient Adaptive Methods for the Identification of Outliers and Homogeneous Groups in Large Data Sets,” *Proceedings of the Statistical Computing Section, American Statistical Association*, 124–129.
 - Castillo, E. and Hadi, A. S. (1997), “Fitting the Generalized Pareto Distribution to Data,” *Journal of the American Statistical Association*, 92, 1609–1620.
 - Hadi, A. S. and Luceño, A. (1997), “Maximum Trimmed Likelihood Estimators: A Unified Approach, Examples, and Algorithms,” *Journal of Computational Statistics & Data Analysis*, 25, 251–272.
 - Castillo, E., Gutiérrez, J. M., and Hadi, A. S. (1997), “Combining Multiple Directed Graphical Representations into a Single Probabilistic Model,” *Proceedings of the Seventh Conference of the Spanish Association for Artificial Intelligence*, 97, 645–652.
 - Hadi, A. S. and Simonoff, J. S. (1997), “A More Robust Outlier Identifier for Regression Data,” *Bulletin of the International Statistical Institute*, 281–282.

- Castillo, E., Gutiérrez, J. M., and Hadi, A. S. (1997), "Sensitivity Analysis in Discrete Bayesian Networks," *IEEE Transactions on Systems, Man and Cybernetics*, 27, 412–423.
- Castillo, E., Gutiérrez, J. M., Hadi, A. S., and Solares, C. (1997), "Symbolic Propagation and Sensitivity Analysis in Gaussian Bayesian Networks with Application to Damage Assessment," *The International Journal for Artificial Intelligence in Engineering*, 11, 173–181.
- Castillo, E., Hadi, A. S., and Sarabia, J. M. (1997), "Fitting Continuous Bivariate Distributions to Data," *The Statistician*, 46, 355–369.
- Castillo, E., Hadi, A. S., and Solares, C. (1997), "Learning and Updating of Uncertainty in Dirichlet Models," *Machine Learning*, 26, 43–63.
- Castillo, E., Gutiérrez, J. M., and Hadi, A. S. (1996), "Goal Oriented Symbolic Propagation in Bayesian Networks," *Proceedings of the AAI*, 96, 1263–1268.
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