

## JOSEPH GLAZ

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University of Connecticut  
Storrs, CT 06269-4120  
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### CITIZENSHIP

U.S.A.

### EDUCATION

BS, 1972, Magnum Cum Laude in Mathematics, Tel Aviv University  
MS, 1974, Mathematics, Rutgers University, New Brunswick, New Jersey  
MS, 1976, Statistics, Rutgers University, New Brunswick, New Jersey  
Ph. D., 1978, Statistics, Rutgers University, New Brunswick, New Jersey

### APPOINTMENTS

Assistant Professor of Statistics, Case Western Reserve University, Cleveland, Ohio (1978-1980)  
Assistant Professor of Statistics, University of Connecticut, Storrs, Connecticut (1980-1985)  
Visiting Faculty of Statistics, Harvard University, Cambridge, Massachusetts (Fall 1987)  
Associate Professor of Statistics, University of Connecticut, Storrs, Connecticut (1985-1992)  
Visiting Research Professor, University of Marseille I, France (Spring 2003)  
Professor of Statistics, University of Connecticut, Storrs, Connecticut, 1992 –  
Associate Head, Department of Statistics, University of Connecticut, 2008-2011  
Director of Graduate Programs, Department of Statistics, University of Connecticut, 2008-2011  
Visiting Professor, LUISS University, Rome, Italy, May-July 2010  
Visiting Professor, University of Rome I, La Sapienza, Rome, Italy, May-July 2010  
Head, Department of Statistics, University of Connecticut, Storrs, Connecticut, 2011-2016

### ADMINISTRATIVE APPOINTMENTS

Graduate School Research Council (January 1, 2007 – December 31, 2009)  
Acting Department Head (August 15, 2007 – January 14, 2008)  
Associate Department Head, April 15, 2008 – June 30, 2011  
Director of Graduate Programs, Department of Statistics, University of Connecticut, 2008-2011  
Head, Department of Statistics, University of Connecticut, Storrs, Connecticut, 2011-2016

### PROFESSIONAL SOCIETIES

American Association for Advancement of Science  
American Statistical Association  
Institute of Mathematical Statistics  
International Statistical Institute  
International Indian Statistical Association

## **RESEARCH INTERESTS**

Applied Probability, Geometrical Probability, Probability Approximations, Probability Inequalities, Parametric Bootstrap, Sequential Analysis, Simultaneous Inference

## **HONORS AND AWARDS**

Full Member of Sigma Xi (1978)  
ASA National Speaker List (1990-1996)  
Elected Ordinary Member ISI (1996)  
Elected Fellow of ASA (2000)  
Abraham Wald Prize in Sequential Analysis (2006)  
AAUP Excellence in Research Award (2008)  
Elected Fellow of Institute of Mathematical Statistics (2009)  
Elected to the Connecticut Academy of Arts and Sciences (2011)  
Excellence in Editing Methodology and Computing in Applied Probability, Springer (2020)

## **EDITORIAL APPOINTMENTS**

Editor-in-Chief, Founding Editor, Methodology and Computing in Applied Probability 1997 –  
Associate Editor, Sequential Analysis, 2004 -  
Associate Editor, Naval Research Logistics, 1992-1997  
Associate Editor, Journal of Mathematical Analysis and Applications, 2004-2007

## **EXTERNAL GRANTS**

ONR Special Research Project Award (1986), \$ 5,000  
NSF team grant for a computer system (SCREM) (1990-1992, 1996-1998, and 1998-2000)  
ONR Research Grant 1993 – 1996, \$ 174,000  
NSA Grant 2001-2002, \$ 10,000 to support IWAP 2002  
IMS Award 2001-2002, \$ 3,000 to support IWAP 2002  
NSA Grant 2003-2004, \$ 10,000 to support IWAP 2004  
IMS Award 2003-2004, \$ 3,500 to support IWAP 2004  
NIH Subcontract from Harvard Medical School 2004-2005, \$ 69,637  
IBM Award 2006, \$ 1,000 to support IWAP 2006  
IMS Award 2005-2006, \$ 3,000 to Support IWAP 2006  
Taylor & Francis Publishers Award 2005-2006, \$ 2,000 to Support IWAP 2006  
ONR Grant 2006 to support IWAP 2006, \$ 10,000  
Taylor & Francis Publishers Award 2007-2008, \$ 2,000 to Support IWAP 2008  
NIH Grant (co-PI), with Quing Zhu, School of Engineering - PI, 2007-2011, \$ 1,481,809  
Visiting Professor Research Award, LUISS University, Rome, Italy, May 2010, 6,000 Euro

## **MAJOR INTERNAL RESEARCH AWARDS**

Interdisciplinary Seminar Series Faculty Research Award for 19<sup>th</sup> NESS, April 2005, \$ 2,000  
Interdisciplinary Seminar Series Faculty Research Award for IWAP 2006, May 2006, \$ 2,000  
College of Liberal Arts and Sciences Award for IWAP 2006, May 2006, \$ 5,000  
Interdisciplinary Seminar Series Faculty Research Award for 21<sup>st</sup> NESS, April 2007, \$ 2,000  
UCRF Summer and Travel Research Awards, University of Connecticut (1981-2008)  
UCRF Sabbatical Research Award (Spring 2003), \$ 1,000  
UCRF Sabbatical leave, small grant Award May 2010, \$ 1,500  
Large Faculty Grant, July 1, 2011 – June 30, 2012. Award amount: \$ 14,390.00

## **EXTERNAL TRAVEL AWARDS**

Nonparametric Statistics Section ASA Travel Award \$ 300 (2003)  
Caesarea Rothschild Inst. Travel Award \$ 1250: Internat. Workshop in Comp. Sci. & Stat. (2003)  
NSA Travel Award \$ 1,500 for IWAP 2004.  
University of Haifa Travel Award to attend a meeting \$ 1000 (2006)  
University of Jerusalem Travel Award to attend a conference \$ 750 (2006)  
University of Lille Travel Award to attend habilitation defense \$ 1,500 (2007)

## **INVITED LECTURES (since 1999)**

Technion, January 1999  
Tel-Aviv University, January 1999  
Temple University, March 1999  
International Conference in Probability and Statistics, University of Athens, Greece, June 1999  
Joint Statistical Meetings, Baltimore, MD, August 1999  
Haifa University, January 2000  
Jerusalem University, January 2000  
International Conference on Order Statistics, University of Mysore, India, December 2000  
International Conference on Statistical Inference, University of Madras, India, December 2000  
Tel-Aviv University, March 2001  
Plenary Lecture at ASMDA 2001, IX International Symposium on Applied Stochastic Models and Data Analysis, Compiègne, France, June 2001  
INFORMS Annual Meeting, New York, NY, July 2001  
IWAP 2002, University of Simon Bolivar, Caracas, Venezuela, January 2002  
Nonparametric Statistics Conference, Florida State University, January 2003  
University of Bern, Switzerland, April 2003  
Universite Libre de Bruxelles, Belgium, May 2003  
University of Marseille I, France, May 2003  
International Workshop in Computer Science and Statistics, Haifa University- December 2003  
IWAP 2004, University of Piraeus, Greece, March 2004

ASMDA 2005, XI International Symposium on Applied Stochastic Models and Data Analysis, Brest, France, May 2005  
AT&T Labs, Florham Park, NJ, July 2005  
Joint Statistical Meetings, Minneapolis, MN, August 2005  
International Workshop in Applied Probability, University of Connecticut, May 2006  
University of Haifa, May 2006  
Joint Statistical Meetings, Seattle, WA, August 2006  
The Book of Esther International Conference, University of Jerusalem, Israel, December 2006  
International Conference on Extreme Value Analysis, University of Bern, Switzerland, July 2007  
International Indian Statistical Association, University of Connecticut, May 2008  
IWAP 2008, University of Technology of Compiègne, Compiègne, France, July 2008  
University of Haifa, March 2009  
Quality and Productivity Research Conference, IBM T.J. Watson Research Center, Yorktown Heights, NY, June 2009  
IWSM 2009, University of Troyes, Troyes, France, June 2009  
LUISS University, Rome, Italy, May 2010  
University of Rome I, Mathematics Department, Rome, Italy, May 2010  
University of Rome I, Statistics Department, Rome, Italy, June 2010  
University of Naples, Naples, Italy, June 2010  
International Workshop in Applied Probability, Madrid, Spain, July 2010  
IMS Regional Conference, Xian, China, July 2011 (joint with Jie Chen)  
International Workshop in Applied Probability, Jerusalem, Israel, June 2012  
Plenary lecture at the ASMDA 2013, XV International Symposium on Applied Stochastic Models and Data Analysis, Barcelona, Spain, June 25 - June 28, 2013  
Columbia University, New York, NY, October 24, 2013  
IWAP 2016, Toronto, Canada, June 2016  
IWAP 2018, Budapest, Hungary, June 2018  
Plenary Lecture at IWAP 2023, Thessaloniki, Greece, June, 2023

## **MAJOR APPOINTMENTS AT INTERNATIONAL CONFERENCES**

Organizer of an Invited Session of Lectures at the Joint Statistical Meetings, Toronto, Canada, August 1994

Organizer of an Invited Session of Lectures at the International Conference on Combinatorial Methods, Hamilton, Ontario, Canada, June 1997

Organizer of an Invited Session of Lectures at the Joint Statistical Meetings, Baltimore, MD, August 1999

Scientific Program Committee of ASMDA 2001, IX International Symposium on Applied Stochastic Models and Data Analysis, Compiègne, France, June 2001

Co-founded and co-chaired an International Workshop in Applied Probability - IWAP 2002, co-sponsored by IMS, University of Simon Bolivar, Caracas, Venezuela, January 2002

Co-chair of an International Workshop in Applied Probability - IWAP 2004, University of Piraeus, Greece, March 2004

Organizer of an Invited Session of Lectures at the International Indian Statistical Association Meeting, University of Georgia, May 2004

Scientific Program Committee of ASMDA, XI International Symposium on Applied Stochastic Models and Data Analysis, Brest, France, May 2005

Organizer of an Invited Session of Lectures at ASMDA 2005, XI International Symposium on Applied Stochastic Models and Data Analysis, Brest, France, May 2005

Co-chair of an International Workshop in Applied Probability - IWAP 2006, University of Connecticut, May 2006

Scientific Program Committee of ASMDA, XII International Symposium on Applied Stochastic Models and Data Analysis, Crete, Greece, May 2007

Co-chair of an International Workshop in Applied Probability - IWAP 2008, University of Technology of Compiègne, Compiègne, France, July 2008

Organizer Invited Session, International Indian Statistical Association - IISA 2008, University of Connecticut, May 2008

Organizer of an Invited Session, 2009 Quality and Productivity Research Conference, IBM T.J. Watson Research Center, Yorktown Heights, NY, June 2009

Scientific Program Committee of ASMDA, XIII International Symposium on Applied Stochastic Models and Data Analysis, Vilnius, Lithuania, June 30 - July 3, 2009

Co-chair of the 5<sup>th</sup> International Workshop in Applied Probability - IWAP 2010, Universidad Carlos III de Madrid, Madrid, Spain, June 2010

Scientific Committee, Stochastic Modeling and Data Analysis International Conference – SMTDA 2010, Technical University of Crete, Chania, Greece, June 8-11, 2010

Organizer of a special invited session at the European Meeting of Statisticians 2010, EMS 2010, Piraeus, Greece, August, 2010

Scientific Program Committee, ASMDA, XIV International Symposium on Applied Stochastic Models and Data Analysis, University of Rome I, Rome, Italy, June 7 - June 10, 2011

Scientific Program Committee, Markov and Semi-Markov Processes and Related Fields International Conference, MSMPRF 2011, Aristotle University of Thessaloniki, Greece, September 20-23, 2011

Scientific Program Committee, International Conference in Applied Probability and Statistics – ICAPS 2011, The Chinese University of Honk Kong, Honk Kong, China, December 28-31, 2011

Scientific Committee, 2<sup>nd</sup> Stochastic Modeling and Data Analysis International Conference – SMTDA 2012, Technical University of Crete, Chania, Crete, Greece, June 5-8, 2012

International Advisory Board, 6<sup>th</sup> International Workshop in Applied Probability - IWAP 2012, Tel Aviv, Israel, June 11-14 2012

International Advisory Board, 7<sup>th</sup> International Conference on Stereology, Spatial Statistics and Stochastic Geometry - S4G 2012, Prague, Czech Republic, June 25-28, 2012

Scientific Program Committee, XV International Symposium on Applied Stochastic Models and Data Analysis, ASMDA 2013, Barcelona, Spain, June 25 - June 28, 2013

Organizer of an invited session at the XV International Symposium on Applied Stochastic Models and Data Analysis, ASMDA 2013, Barcelona, Spain, June 25 - June 28, 2013

Scientific Committee, 3<sup>rd</sup> Stochastic Modeling and Data Analysis International Conference – SMTDA 2014, Lisbon, Portugal, June 11-14, 2014

International Advisory Board, 7<sup>th</sup> International Workshop in Applied Probability - IWAP 2014, Antalya, Turkey, 16-19, 2014

Scientific Program Committee, XVI International Symposium on Applied Stochastic Models and Data Analysis, ASMDA 2015, Piraeus, Greece, June 30 – July 4, 2015

Scientific Committee, 4<sup>th</sup> Stochastic Modeling and Data Analysis International Conference – SMTDA 2016, Valletta, Malta, June 1 - 4, 2016

International Advisory Board, 8<sup>th</sup> International Workshop in Applied Probability - IWAP 2016, Toronto, Canada, June 20 - 23, 2016

Program Committee, Quality and Productivity Research Conference QPRC 2017, University of Connecticut, Storrs, CT, USA, June 13-15, 2017

Scientific Program Committee, XVII International Symposium on Applied Stochastic Models and Data Analysis, ASMDA 2017, London, UK, June 6 - 9, 2017

Scientific Committee, Stochastic Modeling and Data Analysis International Conference–SMTDA 2018, Technical University of Crete, Chania, Greece, June 11-14, 2018

International Advisory Board and co-chair, 9<sup>th</sup> International Workshop in Applied Probability - IWAP 2018, Eötvös, Loránd University, Budapest, Hungary, June 18-21, 2018

Scientific Program Committee, XVIII International Symposium on Applied Stochastic Models and Data Analysis and Demographics Workshop, ASMDA 2019, Florence, Italy, June 11-14, 2019

Scientific Committee, Stochastic Modeling and Data Analysis International Conference–SMTDA 2020, Technical University of Crete, Barcelona, Spain,  
On-line virtual conference, June 11-14, 2020

Scientific Program Committee, XIX International Symposium on Applied Stochastic Models and Data Analysis and Demographics Workshop, ASMDA 2021, Athens, Greece,  
in person and on-line virtual conference, June 1-4, 2021

Scientific Committee, Stochastic Modeling and Data Analysis International Conference–SMTDA 2022 and Demographics 2022, Athens, Greece, in person and on-line virtual conference,  
June 7-10, 2022

International Advisory Board and co-chair, 10<sup>th</sup> International Workshop in Applied Probability - IWAP 2023, University of Thessaloniki, Thessaloniki, Greece, June 7-10, 2023

Scientific Program Committee, XIX International Symposium on Applied Stochastic Models and Data Analysis and Demographics Workshop, ASMDA 2023, Crete, Greece, June 5-8, 2023

Scientific Committee, Stochastic Modeling and Data Analysis International Conference–SMTDA 2022 and Demographics 2024, Crete, Greece, in person and on-line virtual conference,  
June 4-7, 2024

International Advisory Board, 11<sup>th</sup> International Workshop in Applied Probability 2025

## **OUTREACH**

Statistical Consultant on NIH Grants on Risk Analysis to Applied Biomathematics (1995- 1999).

Member of a Committee for Habilitation Thesis, University of Lille, France, December 2007.

Member of the oversight committee for a minor in computational biology.

Affiliated Faculty Member of Center for Environmental Sciences and Engineering

Affiliated Faculty Member of Booth Engineering Center for Advanced Technology

## **PUBLICATIONS – Books and Edited Volumes**

Glaz, J. and Balakrishnan, N. (Eds.) (1999). *Recent Advances on Scan Statistics*. Birkhauser Publishers, Boston.

Glaz, J., Naus, J., Wallenstein, S. (2001). *Scan Statistics*. Springer, New York.

Baeza-Yates, R., Glaz, J., Gzyl, J., Hüsler, J. and Palacios, J. L. (Eds.) (2005). *Recent Advances in Applied Probability*. Springer, New York.

Chiquet, J., Glaz, J., Limnios, N. and Moyal, P. (Eds.) (2008). *Book of Abstracts*. IWAP 2008, 4<sup>th</sup> International Workshop in Applied Probability, Université de Technologie de Compiègne, Compiègne, France.

Glaz, J., Pozdnyakov, V. and Wallenstein, S. (Eds.) (2009). *Scan Statistics: Methods and Applications*. Birkhauser, Boston.

Aribas, A., Glaz, J., Jiménez, R. and Romo, J. (2010). IWAP 2010 Book of Abstracts and Detailed Programme. 5<sup>th</sup> International Workshop in Applied Probability. Universidad Carlos III de Madrid, Colmenarejo, Madrid, Spain. Depósito Legal: M-28524-2010.

Glaz, J. and Koutras, M. V. (Eds.) (2024). *Handbook of Scan Statistics*. Springer Nature, New York

**PUBLICATION - Articles** (selected Publications 1978 -1990, all publications 1991 - current)

Glaz, J. and Naus, J. (1978). Multiple coverage on the line. *Ann. Probab.* **7**, 900-906.

Glaz, J. (1978). Expected waiting time for the visual response. *Biological Cybernetics* **35**, 39-41.

Glaz, J. (1978). Probabilities and moments for absorption in finite homogeneous birth-death processes. *Biometrics* **35**, 813-816.

Glaz, J. (1978). The number of dense arrangements. *J. Combin. Theory Sec. A.* **27**, 367-370.

Glaz, J. (1981). Clustering of events in a stochastic process. *J. Appl. Probab.* **18**, 268 - 275.

Glaz, J. (1983). Moving window detection for discrete data. *IEEE Trans. Info. Theory*, **IT-29**, 457-462.

Glaz, J. and Naus, J. (1983). Multiple clusters on the line. *Commun. Statist. - Theor. Meth. Sec. A* **12**, 1961-1986.

Glaz, J. and McK. Johnson. (1984). Probability inequalities for multivariate distributions with dependence structures. *J. Amer. Stat. Assoc.* **79**, 436-441.

Glaz, J. and McK. Johnson. (1986). Approximating boundary crossing probabilities with applications to sequential tests. *Sequential Analysis* **5**, 37-72.

Glaz, J. and Naus, J. (1986). Approximating probabilities of first passage in a particular Gaussian process. *Commun. Statist. - Theor. Meth. Sec. A* **15**, 1709-1722.

Glaz, J. and McK. Johnson. (1988). Boundary crossing for moving sums. *J. Appl. Probab.* **25**, 81-88.



- Glaz, J. (1989). Approximations and bounds for the distribution of the scan statistics. *J. Amer. Stat. Assoc.* **84**, 560-566.
- Glaz, J. (1990). A comparison of product-type and Bonferroni-type inequalities in presence of dependence. In: *Symposium on Dependence in Probability and Statistics*. Block, Sampson and Savits (Eds.), IMS Lecture Notes-Monograph Series Vol. 16, 223-235.
- Glaz, J. and Naus, J. (1991). Tight bounds for scan statistics probabilities for discrete data. *Ann. Appl. Probab.* **1**, 306-318.
- Glaz, J. and Ravishanker, N. (1991). Simultaneous prediction intervals for multiple forecasts in time series models. *Probab. Statist. Lett.* **12**, 57-63.
- Ravishanker, N., Wu, S.Y.L., and Glaz, J. (1991). Simultaneous prediction in seasonal time series models. *J. Forecasting* **10**, 445-463.
- Gelfand, A., Glaz, J., Kuo, L., and Lee, T.M. (1992). Point estimation and confidence intervals for the largest proportion in multinomial tables. *Naval Res. Logist.* **39**, 97-114.
- Glaz, J. (1992). Approximations for tail probabilities and moments of the scan statistics. *Comput. Stat. Data Analys.* **14**, 213-227.
- Glaz, J. (1992). Approximate simultaneous confidence intervals. In: *Multiple Comparisons, Selection, and Applications in Biometry*. Fred M. Hoppe (ed.), 149-166. Marcel Dekker, NY.
- Glaz, J. (1993). Extreme order statistics for a sequence of dependent random variables. In: *Stochastic Inequalities*. M. Shaked and Y.L. Tong (Eds), 100-115. IMS Lecture Notes 22, CA
- Glaz, J. (1993). Approximations for scan statistics. *Statist. Medicine* **12**, 1844-1851.
- Wallenstein, S., Naus, J., and Glaz, J. (1993). Approximations for the power of scan statistics. *Statist. Medicine* **12**, 1829-1843.
- Glaz, J., Naus, J., Roos, M., and Wallenstein, S. (1994). Poisson approximations for the distribution and moments of ordered m-spacings. *J. Appl. Probab.* **31A**, 271-281.
- Wallenstein, S., Naus, J., and Glaz, J. (1994). Power of the scan statistic in detecting a changed segment in a Bernoulli sequence. *Biometrika* **81**, 595-601.
- Sison, C., and Glaz, J. (1994). Simultaneous confidence intervals and sample size determination for multinomial proportions. *J. Amer. Statist. Assoc.* **90**, 366-369.
- Wallenstein, S., Naus, J., and Glaz, J. (1995). Power of the scan statistics. In: *Proceedings of the Section on Epidemiology*. 1994 Annual Meeting ASA, 70-74, Alexandria, VA

- Glaz, J. (1995). Testing procedures for detecting multiple clusters. In: *Proceedings of the Section on Epidemiology*. 1994 Annual Meeting ASA, 59-63, Alexandria, VA
- Glaz, J. and Kenyon, J. (1995). Approximation characteristics of sequential tests. *Probab. Math. Statist.* **15**, 311-325.
- Glaz, J. and Kenyon, J. (1996). Probability approximations and inequalities for sequential tests. In: *Lifetime Data: Models in Reliability Theory and Survival Analysis*. N. P. Jewell, A. C. Kimball, M. T. Ting Lee, and G. A. Whitmore (Eds.), 99-106, Kluwer Academic Publishers, Boston
- Chen, J. and Glaz, J. (1996). Two-dimensional discrete scan statistics. *Statist. Probab. Lett.* **31**, 59-68.
- Glaz, J. (1996). Discrete scan statistics with applications to minefield detection. In: *Detection and Remediation Technologies for Mines and Mine-Like Targets*. (Eds. A. C. Dubey, R. L. Barnard, C. J. Lowe and J. E. McFee), 420 - 429. Proceedings SPIE, 10th Annual International Aero Sense Symposium, Orlando, Florida.
- Chen, J. and Glaz, J. (1997). Approximations and inequalities for the distribution of a scan statistics for 0-1 Bernoulli trials. In: *Advances in the Theory and Practice of Statistics - A Volume in Honor of Samuel Katz*. N. L. Johnson and N. Balakrishnan (Eds.), Chapter 16, 285 - 298. Wiley & Sons, NY.
- Glaz, J. and Balakrishnan, N. (1999). Introduction to scan statistics. In: *Recent Advances on Scan Statistics*. J. Glaz and N. Balakrishnan (Eds.), p. 3 - 24. Birkhauser Publishers, Boston.
- Chen, J. and Glaz, J. (1999). Approximations for discrete scan statistics. In: *Recent Advances on Scan Statistics*. J. Glaz and N. Balakrishnan (Eds.), p. 27- 66. Birkhauser Publishers, Boston.
- Chen, J. and Glaz, J. (1999). Approximations for discrete scan statistics on the circle. *Stat. Probab. Lett.* **44**, 167 - 176.
- Glaz, J. and Sison, C. (1999). Simultaneous inference for functions of multinomial proportions. *J. Stat. Plan. Infer.* **82**, 251-262.
- Chen, J. and Glaz, J. (2000). Approximations for consecutive k-within-m-out-of-n: F-systems. In: *Proceedings of MMR' 2000, 2nd International Conference on Mathematical Methods in Reliability: Methodology, Practice and Inference*. Universite Victor Segalen - Bordeaux 2, Bordeaux, France, Volume 1, 285-288.
- Glaz, J. (2001). Probability Inequalities for Multivariate Distributions with Applications to Statistics. In: *Probability and Statistical Models with Applications*. Ch. A. Charalambides M.V. Koutras and N. Balakrishnan, Eds., 15-40. Chapman & Hall/CRC, New York.

- Chen, J., Glaz, J., Naus, J. and Wallenstein, S. (2001). Bonferroni-type inequalities for conditional scan statistics. *Stat. Prob. Lett.* **53**, 67-77.
- Glaz, J. (2001). Approximations for the Multivariate Normal Distribution with Applications in Finance and Economics. In: *Applied Stochastic Models and Data Analysis*. G. Govaert, J. Janssen and N. Limnios, eds., Volume 1, 37-43, Universite de Technologie de Compiègne, Compiègne, France.
- Chen, J. and Glaz, J. (2002). Approximations for a conditional two-dimensional scan statistic. *Stat. Prob. Lett.* **58**, 287-296.
- Chen, J. and Glaz, J. (2004). Approximations and Bounds for Moving Sums of Discrete Random Variables. *Applied Sequential Methodologies*. N. Mukhopadhyay, S. Datta and S. Chattopadhyay, eds., 105-122. STATISTICS: Textbooks and Monographs Vol. 173, Marcel Dekker, NY.
- Glaz, J. and Zhang, Z. (2004). Multiple window discrete scan statistics. *J. Applied Statistics*, **31**, 979-992.
- Chen, J. and Glaz, J. (2005). Approximations for Discrete Multiple Scan Statistics. *Recent Advances in Applied Probability*. R. Baeza-Yates, J. Glaz, H. Gzyl, J. Huesler, and J. L. Palacios, eds., 97-114, Springer, Boston, MA.
- Glaz, J. and V. Pozdnyakov (2005). A repeated significance test for distributions with heavy tails. *Sequential Analysis*, **24**, 77-98.
- Pozdnyakov, V., Glaz, J., Kulldorff, M. and Steele, M. (2005). A martingale approach to scan Statistics, *Annals of the Institute of Statistical Mathematics*, **57**, 21-37.
- Glaz, J. and Pozdnyakov, V. (2005). Repeated significance tests for distributions with heavy tails. Proceedings of the XI th International Symposium on Applied Stochastic Models and Data Analysis, J. Janssen and P. Lenca (eds.), 838-845. ENST, Brest, France.
- Glaz, J. and Naus, J. (2005). Scan Statistics and Applications. *Encyclopedia of Statistical Sciences*, 2<sup>nd</sup> Edition, S. Kotz, N. Balakrishnan, C. B. Read and B. Vidacovic, eds., 7463-7471. Wiley, NY.
- Glaz, J., Kulldorff, M., Pozdnyakov, V., and Steele, M. (2006). Gambling teams and waiting times for patterns in two-state Markov chains. *J. Appl. Probab.*, **43**, no. 1, 127-140.
- Glaz, J. and Zhang, Z. (2006). Maximum scan score-type statistics, *Statistics & Probability Letters*, **76**, 1316-1322.
- Pozdnyakov, V. and Glaz, J. (2007). A nonparametric sequential test for distributions with heavy tails. *Journal of Statistical Planning and Inference*, **137**, 869-878.

- Glaz, J. (2007). Scan statistics, in *Encyclopedia of Statistics in Quality and Reliability*, Ruggeri, F., Kenett, R. and Faltin, F. W. (Eds). John Wiley & Sons Ltd, Chichester, UK, pp 1761-1766.
- Zhang, Z. and Glaz, J. (2008). Bayesian variable window scan statistics, *Journal of Statistical Planning and Inference*, 138, no. 11, 3561-3567.
- Chen, J. and Glaz, J. (2008). Conditional variable window scan statistics. Proceedings of *International Workshop on Applied Probability 2008*. Université de Technologie Compiègne, France, July 7-10, 2008, pp. 1-6.
- Guerriero, M., Willett, P. and Glaz, J. (2008). Target detection in sensor network using scan Statistics. in: *Acoustics, Speech and Signal Processing, 2008, ICASSP 2008 IEEE International Conference, Las Vegas, Nevada, 2425-2428*.
- Guerriero, M., Willett, P. and Glaz, J. (2009). Distributed target detection in a sensor network using scan statistics. *IEEE Transactions on Signal Processing*, 57, no. 7, 2629-2639.
- Glaz, J. (2009). Nonparametric repeated significance tests with random target sample size. *Proceedings of a Conference IWSM 2009*, University of Technology of Troyes, France, June 15-17, 2009, pp. 1-6
- Chen, J. and Glaz, J. (2009). Approximations for two-dimensional variable window scan Statistics, in *Scan Statistics: Methods and Applications*, Glaz, J, Pozdnyakov, V. and Wallenstein, S. (eds.), 109-130, Birkhauser Publishers, Boston.
- Glaz, J. and Naus, J. (2009). Scan statistics, in *Methods and Applications of Statistics in the Life and Health Sciences*. N. Balakrishnan (ed.), John Wiley & Sons Ltd, Chichester, UK, 733-748.
- Guerriero, M., Pozdnyakov, V., Glaz, J. and Willett, P. (2010). Randomly Truncated Repeated Significance Tests with Applications to Sensor Networks. *IEEE Trans. on Signal Processing*, 58, no. 7, 3426-3435.
- Glaz, J., Guerriero, M. and Sen, R. (2010). Approximations for the distribution of a scan statistic for 0-1 iid Bernoulli trials in a three-dimensional cube. *Methodology and Computing in Applied Probability*, 12, 731-748.
- Song, X., Willett, P., Glaz, J. and Zhou, S. (2012). Active detection with a barrier sensor network using a scan statistic. *IEEE Journal of Oceanic Engineering*, 37, No. 1, 66-74.
- Glaz, J., Naus, J. and Wang, X. (2012). Approximations and bounds for distribution of moving sums of normal random variables. *Methodology and Computing in Applied Probability* 14, 597-616.
- Song, X., Willett, P., Glaz, J., and Zhou, S. (2012). Distributed detection with a scan statistic: Global to local inference. *Proceedings of the 2012 IEEE Sensor Array and Multichannel Signal Processing Workshop*, 485-488.

- Song, X, Willett, P., Zhou, S., and Glaz, J. (2012). MIMO radar detection with heterogeneous propagation losses. Conference publication SSP2012, 2012 IEEE Statistical Signal Processing Workshop, August 5-8, 2012, Ann Arbor, MI, USA, 776-779.
- Wu, T.-L., Glaz, J. and Fu, J. C. (2013). Discrete, Continuous and Conditional Variable Window Scan Statistics. *Journal of Applied Probability*, **50**, Issue 4, 1089-1101.
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