Joseph B. ("Jay") Kadane

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Birth Date: January 10, 1941

Education
B.A. Cum Laude in Mathematics, Harvard University, 1962
Ph.D. in Statistics, Stanford University, 1966

Experience
Carnegie-Mellon University, 1971-
      University Professor, 2000-
      Leonard J. Savage Professor of Statistics and Social Sciences, 1985-
      Head, Department of Statistics, 1972-1981 (on leave 1978-1979)
      GSIA/Statistics Professor of Statistics and Social Sciences, 1969-85
      Associate Professor of Statistics and Social Sciences, 1971-1972
Center for Naval Analyses 1968-1971
      Member of the Professional Staff
Yale University 1966-1968
      Assistant Professor of Statistics, 1966-1968
      Research Staff of Cowles Foundation for Research in Economics, 1966-1968
Alternative Learning Laboratory
      Member of the Board of Directors, 1976-78
      Chair, 1977-78
Citizens Advisory Committee to Children and Youth Services of Allegheny County
      Member, 1983-93, Vice-chair, 1984-85, Chair, 1986-90

Committee on McIntire Shelter, 1983-85, Chair, 1984-85.
Nominating Committee, Chair, 1991 - 1993
Futures Committee, 1991 - 1993
Center for the Assessment and Treatment of Youth (CATY)
Member of the Board of Directors, 1990 - 1997
Nominating Committee, Chair, 1992 - 1994
Chair, Board of Directors, 1995 - 1997

Editorships
Journal of the American Statistical Association
Applications and Coordinating Editor, 1983-1985
Acting Theory and Methods Editor, Nov. 1986; April 1987
Deputy Theory and Methods Editor, 1976-1978
Associate Editor, 1968-1973
Associate Editor for Special Section on Census Undercount Research, 1991-1992
Annals of Statistics
Associate Editor 1974-1976
North Holland Publishing Company
Co-editor of Series, Studies in Bayesian Econometrics and Statistics, 1980-1990
Journal of Complexity
Member, founding Board of Editors, 1985-1995
Journal of Business and Economic Statistics
Associate Editor 1987-1998
Encyclopedia of Physical Science and Technology
Advisory Editor, 1987 - 1992
John Wiley and Sons
Advisory Editor, Wiley Series in Probability and Mathematical Statistics, 1988 - 2006
International Encyclopedia of the Social and Behavioral Sciences
Joint Statistics Editor, 1997 - 2001
Law, Probability and Risk
Joined editorial board, 2017

Professional Service
American Association for the Advancement of Science
Member 1976 -
Elected Fellow, 1980
Elected Member of the Nominating Committee for Section U (Statistics), 1995-1998
American Statistical Association
Advisory Committee to the US Census Bureau, 1978-83, Chair, 1982
Technical Advisory Committee to the US Census Bureau on the Undercount, 1981-83
Advisory Committee on *Am. Stat. News*, 1974-1977
Standing Meetings Committee, 1971-1973

Standing Publications Committee, 1971-1973, 1983-1985
Task Force on Meetings 1970-1971
Board of Directors, 1983
Standby Committee on Appointments to Senior Federal Statistical Positions
  Ad-hoc member for Director, Bureau of the Census, 1983
  Regular member, 1984-86
Committee on COPSS Presidents' Award, 1985-1986
Section on Social Statistics, Publications officer, 1989-1990
Section on Bayesian Statistical Science, Publications officer, 1992 - 1993; Chair 2002
Member of Committee on Professional Ethics, 1995 - 1996
Committee on Scientific Freedom and Human Rights
  Member 2010-2015, Vice-chair 2012, Chair 2013-2015

Committee of Presidents of Statistical Societies
Committee to Revise the "Careers in Statistics" booklet, 1971-1973
Visiting Lecturer Program, 1980-1983

Columbia University
Ad Hoc Tenure Committee, May 15, 1998

Institute of Mathematical Statistics
Program Committees
  Eastern Regional Meeting, 1981
  Annual Meeting, 1975
Nominating Committee, 1980
Committee on Fellows, 1986-1988; Chair, 1987-1988

Institute of Statisticians
One of the Technical Convenors, Conference on "Practical Bayesian Statistics," Cambridge, England, 1982

International Society for Bayesian Analysis
Elected Member, International Council of Advisors, 1994-1996
Chair, Constitution and Bylaws Committee, 1994 -
Elected Member, Board of Directors 1996-2000

L.J. Savage Memorial Foundation, Inc.
Director, 1978-2000

National Center for State Courts
Task Force on Proportionality Review in Death Sentence Cases, 1982-84

National Research Council/National Academy of Science
Committee on the Assessment of Demand for Outdoor Recreational Facilities, 1974-76
Committee on Research on Law Enforcement and The Administration of Justice, 1980-86
Panel on Sentencing Research, 1980-1983
Panel on Decennial Census Methodology, 1984-1989
Commission on Behavioral and Social Sciences and Education, 1986-1992
Board on Mathematical Sciences, 1988-1991

National Science Foundation
    Member, Advisory Committee for Ethics and Values in Science and Technology, 1984-1986
    Member, Advisory Committee for Ethics and Values Studies, 1986-1987
    Advisor, Joint Economics and Statistics Program in Econometrics, 1990.
    Member, Board of Visitors, Measurement Methods and Data Improvement Program, 1990.
    Member, Methodology, Measurement and Statistics Special Emphasis Panel, 1993-1994
Royal Statistical Society
    Member, Programme Committee for Practical Bayesian Statistics 4.
Seminar on Bayesian Inference in Econometrics,
    Participant 1970-1998
    Chairman, Computation Committee, 1974-1977
Yale University
    Member, Council for Social-Sciences-Policy, 1990-95.
American Academy of Forensic Sciences
    Forensic Science Board
    Voting member of the Friction Ridge Consensus Body, 2021 – 2022.
Racial Equity Partners, LLC
    20% partner

Grants and Contracts

National Science Foundation Grant GS-1721. "Econometric Methods And Application," co-principal investigator with Marc Nerlove and David Grether, 1967-1969.

National Science Foundation Grant GS-38609. "Studies in Econometric Method," co-principal investigator with Martin Geisel, John G. Ramage and George F. Brown, Jr., 1973-1975.

Office of Naval Research Contract, NR 042-309. "Applying Multi-dimensional Scaling to the Needs of the Ocean Allocation Project," principal investigator, 1973-1975.

Office of Naval Research Contract, NR 042-309. "Aspects of Statistics and Applied Probability," principal investigator, 1975.

National Science Foundation Grant. "Econometric Models for the Educational Process and Other Applications," co-principal investigator with Timothy McGuire and Richard Staelin, 1974-1976.

Office of Naval Research Contract, N00014-75-c-0516. "Applied Probability and Statistics Models," 1976, 1977, 1978.

National Science Foundation Grant SOC-76-03824. "Bayesian Prediction From Regression Models," 1976, 1977, 1978.

National Science Foundation Grant SOC-75-15137. "Studies in Econometric Methods," 1975-1978.

Contracts with U.S. Department of the Treasury and with the American Petroleum Institute, 1977-1978.

Further contract work with Department of Treasury, 1980-1981.

National Institute of Justice, "Longitudinal Methods for the Analysis of Victimization Data," with S.E. Fienberg and W. F. Eddy, 1981-1983.

National Science Foundation Grant ISP-8116810, "Ethical Issues in the Conduct of Medical Trials," 1982-1986.

Office of Naval Research, "Decisions in Conflict Environments," with P. Larkey and K. Laskey, NR 274-345, 1982-1985.

National Science Foundation, "Mathematical Sciences: Asymptotic Methods for Bayesian and Likelihood Analysis," with Luke Tierney and Rob Kass, 1985-89.

National Science Foundation, "Understanding Children's Developing Ability to Solve Arithmetic Word Problems," with Jill Larkin and Catherine Sophian, 1985-87.

Office of Naval Research, "Bayesian Inference," 1985-88.

Office of Naval Research, "Statistics and Oceanography," 1989-1995

National Science Foundation, "Comparing Divergent Views: The Sacco-Vanzetti Case," 1989-93.

National Science Foundation "Mathematical Sciences: Bayesian Inference in Computing," with Luke Tierney, Rob Kass and Larry Wasserman, 1990-92.

National Science Foundation "Mathematical Sciences: Bayesian Inference and Computing," with Luke Tierney, Rob Kass and Larry Wasserman, 1993-98.

National Science Foundation "A Training Program in Cross-Disciplinary Research and Training," 1997 - 1999.

Donner Foundation, "Sampling Methods in the 2000 Census," with Stephen Fienberg, 1998.

National Science Foundation "Studies on Foundations of Statistics," 1999-2001.

National Science Foundation "FRG: The Mathematics of Financial Risk Management" with Math Dept., Teddy Seidenfeld and Mark Schervish, 2002–2005.

National Science Foundation/National Institutes of Health "Improving Bayesian Phylogeny." 2003–2007.

Honors

- Elected Fellow of the American Statistical Association, 1973.

- Elected Fellow of the Institute of Mathematical Statistics, 1975.

- Selected for Research Fellowship by Japan Society for Promotion of Science, 1978.

- Pittsburgh Statistician of the Year, 1980, chosen by the Pittsburgh Chapter of the American Statistical Association.

- Elected Fellow of the American Association for the Advancement of Science, 1980.

- Elected Member of the International Statistical Institute, 1981.

- Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, 1986-87.

- Co-winner, Frank Wilcoxon Award for the Best Applied Paper in Technometrics, 1993.

- Tamura/Lilly Lecture, Mathematics Department, Oberlin College, April 3, 2003, "Driving While Black: Differential Enforcement of the Traffic Laws on the New Jersey Turnpike."

- Alan T. Craig Lectures, University of Iowa, April 2005 "Driving While Black: Differential Enforcement of the Traffic Laws on the New Jersey Turnpike" and "Is Ignorance Bliss?"

- Fulbright Fellowship to Chile, 2004.

- Elected member of the American Academy of Arts and Science, 2010.

- Distinguished Lecture, University of Massachusetts at Amherst, October 27, 2011 "How does a Bayesian play games?"

- Chicago Chapter, ASA Statistician of the Year, October 23, 2012.

- DeGroot Prize for "Principles of Uncertainty," 2011.

- Elected Fellow of International Society for Bayesian Analysis, 2014.

- Appointed to the Editorial Board, *Law, Probability and Risk Journal*, 2019.

Graduate Students Supervised

Name   **Date**
Thesis Title

John G. Ramage   Yale '71
"A Perturbation Study of the k-class Estimators in the Presence of Specification Error"

Donald A. Berry   Yale, 2-71
(co-advisor with L.J. Savage)
"A Bernoulli Two-Armed Bandit"

Jon K. Peck   Yale 1-72
"A Comparison of Alternative Estimations for a Dynamic Relationship Estimated From A Time Series of Cross-Sections When the Disturbances are Small"

George F. Brown, Jr.   CMU - '72
"Structural Estimation by K-Class Methods and Reduced Form Forecasting"

Petros Hadjicostas   CMU 8-95
"Probabilistic Analysis of Association Reversal Phenomena"

David Algranati   CMU 12-2002
"Exploring Racial and Geographical Effects in the Decision to Seek the Federal Death Penalty, 1995 - 2000"

Sharad Borle (jointly supervised with Peter Boatwright at the Tepper School)   CMU-2003
"Empirical Applications in Marketing"

Michelle Dunn   CMU 2-2005
"Applying Particle Filter and Path Stack Methods to Detecting Anomalies in Network Traffic Volume"

Manuela Buzoianu   CMU 9-2005
"Bayesian Decision Making With Application to a Clinical Trial"

Xiting ("Cindy") Yang   CMU 8-2009
"Elicitation of Expert Knowledge of Phylogenics in the Form of Rooted Trees"

Rhiannon Weaver   CMU-5-2012
"Behavioral Modeling of Botnet Populations Viewed Through Protocol Address Space"

Rafael Stern   CMU-8-2015
"A Statistical Contribution to Historical Linguistics"

Publications

A. Economics and Econometrics

A-1   Maddala, G.S. and Kadane, J.B. (1966). "Notes on the Estimation on the CES Production Function," *Review of Economics and Statistics*, (August), **48**: 340-44.

A-2   Maddala, G.S. and Kadane, J.B. (1967). "Estimation of Returns to Scale and the Elasticity of Substitution," *Econometrica*, **34**: 419-23).

A-3   Kadane, J.B. (1970). "Testing Overidentifying Restrictions when the Disturbances are Small," *Journal of the American Statistical Association*, (March), **65**: 182-185.

A-4   Kadane, J.B. (1971). "Comparison of Estimators in Simultaneous Equation Econometric Models when the Residuals are Small," dissertation, June 1966, published under the title "Comparison of k-class Estimators When the Disturbances are Small." *Econometrica*, (September), **39**: 723-737.

A-5   Fisher, F.M. and Kadane, J.B. (1972). "The Covariance Matrix of the Limited Information Estimator and the Identification Test: Comments," *Econometrica*, (September), **40**: 901-3. (http://repository.cmu.edu/statistics/6)

A-6 Kadane, J.B., McGuire, T., Sanday, P. and Staelin, R. (1974). "An Econometric Model for Estimating IQ Scores and Environmental Influences on the Pattern of IQ Scores Over Time." Presented at the Annual Meeting of the American Statistical Association, (December 1973), **Proceedings of the Social Statistics Section**, 72-81, 1974.

A-7 Kadane, J.B. (1974). "Testing A Subset of the Overidentifying Restrictions," *Econometrica*, (September), **42**:5: 853-67.

A-8 Brown, G.F., Kadane, J.B. and Ramage, J.G. (1974). "The Asymptotic Bias and Mean-Squared Error of Double K-Class Estimators When the Disturbances are Small," *International Economic Review*, (October), **15**: 667-79.

A-9 Kadane, J.B. and Anderson, T.W. (1977). "A Comment on the Test of Overidentifying Restrictions," *Econometrica*, (May), **45**: 1027-31. Reprinted in **The Collected Papers of T.W. Anderson: 1943-1985**, G. Styan, ed., Vol II, pp 1097-1101; J. Wiley & Sons, 1990. (`http://repository.cmu.edu/statistics/1`)

A-10 Kadane, J.B., McGuire, T.W., Sanday, P.R. and Staelin, R. (1977). "Estimation of Environmental Effects on the Pattern of IQ Scores Over Time," **Latent Variables in Socioeconomic Models**, Edited by D.J. Aigner and A.S. Goldberger, 327-48.

A-11 Kadane, J.B., McGuire, T.W., Sanday, P.R. and Staelin, R. (1976). "Models of Environmental Effects on the Development of IQ," *Journal of Educational Statistics*, (Autumn), **1**: 181-231.

A-12 Kadane, J.B. (1978). "Normalization in Point Estimation: A Comment," *Journal of Econometrics*, (January), **7**: 123-5 and "Rejoinder," p. 129.

A-13 Kadane, J.B. (1980). "Predictive and Structural Methods for Eliciting Prior Distributions," A. Zellner, Eds., "**Studies in Bayesian Econometrics and Statistics in Honor of Harold Jeffreys**," North Holland Publishing Company, 89-93.

A-14 Kadane, J.B. and Dickey, J. (1980). "Bayesian Decision Theory and the Simplification of Models," in J. Kmenta and J. Ramsey, Eds., **Evaluation of Econometric Models**, Academic Press, (1980), 245-268, reprinted in **Bayesian Inference**, ed. by G.C. Tiao and N. Polson, Edward Elgar Publishing Co.

A-15 Eddy, W. and Kadane, J.B. (1982). "The Cost of Drilling for Oil and Gas: An Application of Constrained Robust Regression," *Journal of the American Statistical Association*, (June), **77**: 262-269

A-16 Kadane, J.B. (1985, 1987) "Is Victimization Chronic? A Bayesian Analysis of Multinomial Missing Data," *Journal of Econometrics*, (1985), **29**: 47-67. "Corrigenda" *Journal of Econometrics*, **35**: 393.

A-17 Sanchez, J., Kadane, J.B. and Candel, A. (1996). "Multiagent Bayesian Theory and Economic Models of Duopoly, R. & D., and Bank Runs," in **Advances in Econometrics**, Volume II, Part A, T.B. Fomby and R.C. Hill, eds., JAI Press, pp 275-302.

A-18 Kadane, J.B., Chan, N.H. and Wolfson, L.J. (1996). "Priors for Unit Root Models" *Journal of Econometrics*, **75**, 99-111.

A-19 Kadane, J.B. (1975, 1978, 2001). "Some Statistical Problems in Merging Data Files," OTA Paper 6, December 12, 1975; Office of Tax Analysis, Department of Treasury, appeared in revised form in *1978 Compendium of Tax Research*, Department of the Treasury. *Journal of Official Statistics*, **17**, 423-433.

A-20 Kadane, J.B. and Woodworth, G. (2004)"Hierarchical Models for Employment Decisions," *Journal of Business and Economic Statistics*, Vol. 22, 2:182–193.

A-21 Schervish, M., Seidenfeld, T. and Kadane, J.B. (2008). "The Fundamental Theorems of Prevision and Asset Pricing," International Journal of Approximate Reasoning, **49**, 148–158.

A-22 Seidenfeld, T., Schervish, M.J. and Kadane, J.B. (2009). "Preference for equivalent random variables: A price for unbounded utilities," *Journal of Mathematical Economics*, **45:**, 329–340.

A-23 Kadane, J.B. and MacEachern, S. (2014). "Toward rational social decisions: A review and some results," *Bayesian Analysis*, 9(#3), 685–698.

A-24 Stuttgen, P., Boatwright, P. and Kadane, J.B. (2018). "Stockouts and restocking: Monitoring the retailer from the supplier's perspective." *Journal of Business and Economic Statistics*, posted online June 21, 2016, 36 (#3), 471–482. DOI 10.1080/07350015.2016.1200982

B. Sociology and Demography

B-1 Kadane, J.B., Lewis, G. and Ramage, J. (1969). "Horvath's Theory of Participation in Group Discussion," *Sociometry*, (September), **32**: 348-61.

B-2 Kadane, J.B., Lewis, G. and Ramage, J. (1969). "Rejoinder to Horvath," (December), *Sociometry*: 505-6.

B-3 Kadane, J.B. and Lewis, G. (1969). "The Distribution of Participation in Group Discussions: An Empirical and Theoretical Reappraisal," *American Sociological Review*, (October), **34**: 710-23.

B-4 Kadane, J.B. and Lewis, G. (1970). "Reply to Leik," *American Sociological Review*, (August), **35**: 760.

B-5 Ericksen, E. and Kadane, J.B. (1986). "Using Administrative Lists to Estimate Census Omissions" *Journal of Official Statistics* **2**: 397-414 (1986); an earlier version is in **An Administrative Record Approach to Censuses and Surveys**, W. Alvey, editor, Department of the Treasury, 1983, 3-8, and in **1983 Proceedings of the Section on Survey Research Methods**, 361-365. (`http://repository.cmu.edu/statistics/10`)

B-6 Ericksen, E. and Kadane, J.B. (1983). "Using the 1980 Census as a Population Standard," **1983 Proceedings of the Social Statistics Section**, ASA, 474-479.

B-7 Ericksen, E.P. and Kadane, J.B. (1985). "Estimating the Population in a Census Year: 1980 and Beyond" (with discussion), *Journal of the American Statistical Association*, **80**, 98-131. Excerpts appear in **Statistical Uses of Administrative Records : Recent Research and Present Prospects, Vol. 1** Internal Revenue Service, Dept. of the Treasury, pp. 283- 290. An early version appears in **Federal Statistics and National Needs**, prepared by the Congressional Research Service for the Senate Committee on Governmental Affairs, 1984, 233-279.

B-8 Kadane, J.B. and Ericksen, E. (1984). "Revised Estimates of State and Central City Populations on Census Day, 1980" the **1984 ASA Proceedings of the Social Statistics Section**, 208-210.

B-9 Ericksen, E. and Kadane, J.B. (1987). "Sensitivity Analysis of Local Estimates of Undercounts in the 1980 U.S. Census" **Small Area Statistics**, edited by J.N.K. Rao, Richard Platek, C.E. Sarndal, and M.P. Singh, pp. 23-45, J. Wiley and Sons: NY.

B-10 Ericksen, E., Kadane, J.B. and Tukey, J. (1989). "Adjusting the 1980 Census of Housing and Population." A version published by the House of Representatives, Committee on Post Office and Civil Service, Subcommittee on Census and Population, Record of Hearing of August 17, 1987. *Journal of the American Statistical Association*, **84**, 927-44.

B-11 Meyer, M.M. and Kadane, J.B. (1992). "Reconstructing the Adjusted Census for Florida: A Case Study in Data Examination," *Journal of Computational and Graphical Statistics*, **1**, 287-300.

B-12 Kadane, J.B. (1996). "A Bayesian Approach to Designing U.S. Census Sampling for Reapportionment," *Journal of Official Statistics*, **12**, 85-106 (with discussion).

B-13 Meyer, M.M. and Kadane, J.B. (1995). "Evaluation of a Reconstruction of the Adjusted 1990 Census for Florida," *Journal of Official Statistics*, **13**, 103–112.

B-14 Daponte, B.O., Kadane, J.B., and Wolfson, L.J. (1997). "Bayesian Demography: Projecting the Iraqi Kurdish Population, 1977-1990," *Journal of the American Statistical Association*, **92**, 1256–1267.

B-15 Anderson, M., Daponte, B.O., Fienberg, S.E., Kadane, J.B., Spencer, B.D. and Steffey, D.L. (2000). "Sampling-Based Adjustment of the 2000 Census – A Balanced Perspective," *Jurimetrics*, **40**, 341–356.

B-16 Daponte, B.O., Haviland, A. and Kadane, J.B. (2004). "To What Degree Does Food Assistance Help Poor Households Acquire Enough Food?," *Journal of Poverty*, **8**: 2 63–87.

B-17 Dunn, M., Kadane, J.B. and Garrow, J. (2003). "Comparing Harm Done by Mobility and Class Absence: Missing Students and Missing Data," *Journal of Educational and Behavioral Statistics*, Vol. 28, No. 3, pp. 269–288.

B-18 Kadane, J.B. and Næshagen, F.L. (2013). "The number of killings in southern rural Norway, 1300-1569," *The Annals of Applied Statistics*, 7(2): 846–859.

B-19 Kadane, J.B. and Næshagen, F.L. (2014). "Homicide Rates in Rural Southern Norway 1300–1569," *Scandinavian Journal of History*, `http://dx.doi.org/10.1080/03468755.2014.882270`, 39(#3), 287–298.

B-20 Kadane, J.B. and Williams, K.E. (2018). "Accurate reporting of U.S. opioid deaths: Level, type, temporal and geographical comparability," *Statistical Journal of the IOAS*, doi 10.3233/SJI-180451, 34, pp. 539–542.

C. Political Science

C-1 Moses, L., Brody, R., Holsti, O., Kadane, J.B. and Milstein, J. (1967). "Scaling Data on Inter-National Action," *Science*, (May 26), **156**: 1054-9.

C-2 Friedheim, R.L. and Kadane, J.B. (1970). "Quantitative Content Analysis of the United National Seabed Debates: Methodology and A Continental Shelf Case Study," with the assistance of J.K. Gamble, Jr., *International Organization*, (Summer Issue), **24**: 479-502. (`http://repository.cmu.edu/statistics/12`)

C-3 Friedheim, R. and Kadane, J.B. (1972). "The Politics of Ocean Science," *Journal of Maritime Law and Commerce*, (April), **3**: 473-502.

C-4 Kadane, J.B. (1972). "On Division of the Question," *Public Choice*, (Fall), **13**: 47-54. To be reprinted in **Rational Choice Politics**, Torun Dewan, Keith Dowling and Kenneth A. Shepsle, editors, Sage Publications, London (2009).

C-5 Epple, D. and Kadane, J.B. (1990). "Sequential Voting with Endogenous Voter Forecasts," *American Political Science Review*, (`http://repository.cmu.edu/statistics/11`)**84**, 165-175.

D. Operations Research and Computer Science

D-1 Kadane, J.B. (1968). "Discrete Search and the Neyman-Pearson Lemma," *The Journal of Mathematical Analysis and Applications*, (April), **22**: 156-71.

D-2 Kadane, J.B. (1969). "Quiz Show Problems," *The Journal of Mathematical Analysis and Applications*, (September), **27**: 609-23.

D-3 Kadane, J.B. (1971). "Optimal Whereabouts Search," *Operations Research*, (July - August), 894-904.

D-4 Simon, H.A. and Kadane, J.B. (1975). "Optimal Problem-Solving Search: All-Or-None Solutions," *Artificial Intelligence*, **6**: 235-47. Reprinted in **Models of Bounded Rationality: Economic Analysis and Public Policy, Volume 1** by Herbert A. Simon, MIT Press, Cambridge, Mass., l982, 248-260

D-5 Simon, H.A. and Kadane, J.B. (1976). "Problems of Computational Complexity in Artificial Intelligence," 281-99 in **Algorithms and Complexity, New Directions and Recent Results**, edited by J.F. Traub.

D-6 Kadane, J.B. and Simon, H.A. (1977). "Optimal Strategies for a Class of Constrained Sequential Problems," *Annals of Statistics*, (March), **5**: 237-55.

D-7 Kadane, J.B. (1978). "A Characterization of the Rau Class of Sequential Problems," *Mathematics of Operations Research*, (February), **3**: 42-56.

D-8 Kadane, J.B. (1978). "Reversibility of A Multilateral Sequential Game: Proof of A Conjecture of Sakeguchi," *Journal of the Operations Research Society of Japan*, **21**: 509-515.

D-9 Kadane, J.B. (1980). "Industrial Applications of Search Theory," pp. 205-210 in **Search Theory and Applications**, Edited by K.B. Haley and L.D. Stone, (1980), Plenum Press.

D-10 Stone, L.D. and Kadane, J.B. (1981). "Optimal Whereabouts Search for A Moving Target," *Operations Research*, (November - December), **29**: 1154-1166.

D-11 Tierney, L. and Kadane, J.B. (1983). "Surveillance Search for a Moving Target," *Operations Research*, (July - August), **31**: 720-738.

D-12 Kadane, J.B. and Wasilkowski, G.W. (1985). "Average Case Epsilon-Complexity in Computer Science: A Bayesian View," (with discussion), **Bayesian Statistics 2, Proceedings of the Second Valencia International Meeting**, edited by Bernardo, DeGroot, Lindley and Smith, 361-374.

D-13 Kadane, J.B. (1985). "Parallel and Sequential Computation: A Statistician's View," *Journal of Complexity*, December, **1**: 256-263.

D-14 Kadane, J.B., Wasilkowski, G.W., and Wozniakowski, H. (1988). "On Adaption with Noisy Information," *Journal of Complexity*, December, **4**: 257-276.

D-15 Berry, S. and Kadane, J.B. (1995). "Optimal Whereabouts Search," to appear in **MORS Analyst's Handbook**, published by the Military Operations Research Society

D-16 Gates, C., McNutt, J., Kadane, J. and Kellner, M. (2006). "Scan Detection on Very Large Networks Using Logistic Regression Modeling." In *Proceedings of the IEEE Symposium on Computers and Communications.* Pula-Cagliari, Sardinia, Italy. June 26-29, 2006.

D-17 Gates, C., McNutt, J., Kadane, J. and Kellner, M. (2006). "Detecting Scans at the ISP Level." Technical Report CMU/SEI-2006-TR-005, Carnegie Mellon University Software Engineering Institute. April 2006. `ftp://ftp.sei.cmu.edu/pub/documents/06.reports/pdf/06tr005.pdf`

D-18 Collins, M., Shimeall, T., Kadane, J. B. and De Shon, M. (2006). "Uncleanliness Vector (Phase I)," Technical Report, CERT Network Situational Awareness Group

D-19 Collins, M.P., Shimeall, T.J., Faber, S., Janies, J., Weaver, R., DeShon, M. and Kadane, J.B. "Using Uncleanliness to Predict Future Botnet Addresses," ICM '07.

D-20 Kadane, J.B. (2015) "Optimal Discrete Search with Technological Choice," *Mathematical Methods of Operations Research*, **81**(3), 317–336.

D-21 Kadane, J.B. (2021) Correction to: Optimal discrete search with technological choice. *Mathematical Methods of Operations Research*, **94**, 169170. `https://doi.org/10.1007/s00186-021-00749-7`.

E. Mathematics and Statistical Theory

E-1 Kadane, J.B. (1984). Edited Book: **Robustness of Bayesian Analyses**, North Holland Publishing Company.

E-2 Kadane, J.B. (1966). "Some Equivalence Classes in Paired Comparisons," *Annals of Mathematical Statistics*, (April), **37**: 488-94.

E-3 Kadane, J.B. (1971). "A Moment Problem for Order Statistics," *Annals of Mathematical Statistics*, (April), **42**: 745-51. (`http://repository.cmu.edu/statistics/15`)

E-4 Kadane, J.B. (1971). "A Multinomial Sum," *American Mathematical Monthly*, (June - July), **78**: 658.

E-5 Kadane, J.B. (1972). "A Concave Property of the Hypergeometric Function with Respect to A Parameter," *SIAM Journal of Mathematical Analysis*, (November), **3**: 642-3. (`http://repository.cmu.edu/statistics/18`)

E-6 Kadane, J.B. (1974). "A Characterization of Triangular Arrays Which Are Expectations of Order Statistics from a Distribution of Unrestricted Range," *Journal of Applied Probability*, (June), **11**: 413-6.

E-7 Kadane, J.B. (1974). "A Family of Distributions with Nearly Constant Ratios of Expected Values of Order Statistics," Proceedings volume of the **All-India Seminar on Demography and Statistics**, 70-5.

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