

BIBLIOGRAPHY

Ahamad, B. (1967). An analysis of crimes by the method of principal components. *Applied Statistics*, 16, 17-35.

Bentham, J. (1778). *Works*, ed. Bowring, (1843) 4, 29. Edinburgh: Tait.

Bernardo, J. M. and Smith, A. F. M. (1994). *Bayesian Theory*. John Wiley & Sons, New York.

Black, D. J. (1970). Production of crime rates. *American Sociological Review*, 35, (4, August 1970), 733-748.

Böhning, D. (1989). Likelihood inference for mixtures: geometrical and other constructions of monotone step-length algorithms. *Biometrika*, 76, 375-383.

Böhning, D. (1995). A review of reliable maximum likelihood algorithms for the semi-parametric mixture maximum likelihood estimator. *Journal of Statistical Planning and Inference*, 47, 5-28.

Böhning, D. (1999). *Computer-assisted Analysis of Mixtures and Applications. Meta-analysis, disease mapping and others*. Chapman & Hall/CRC, London.

Böhning, D. (2000). *Computer-assisted Analysis of Mixtures and Applications. Meta-analysis, disease mapping and others*. Boca Raton: Chapman and Hall-CRC.

Böhning, D., Dietz, E., Schaub, R., Schlattmann, P. and Lindsay, B. G. (1994). The distribution of the likelihood ratio for mixtures of densities from the one-parametric exponential family. *Annals of the Institute of Statistical Mathematics*, 46, 373-388.

Borowick, K. S. (1997). Analysis of low probability count data with applications in Crime Analysis. A dissertation submitted to the *Baylor University*, Waco, Texas.

Budd, T. (1999). Burglary of Domestic Dwellings: Findings from the British Crime Survey. *Home Office Statistical Bulletin*, 4/99, London: Home Office.

Burrows, J., Tarling, R., Mackie, A., Lewis, R. and Taylor, G. (2000). Review of Police Forces' Crime Recording Practices, *Home Office Research Study No 204*, London: Home Office.

Chatfield, C. and Collins, A. J. (1980). *Introduction to Multivariate Analysis*. Chapman & Hall.

Cliff, A. D. and Ord, J. K. (1973). *Spatial autocorrelation*. Pion, London.

Cliff, A. D. and Ord, J. K. (1981). *Spatial processes: models and applications*. Pion, London.

Dersimonian, R. (1986). Algorithm AS 221: Maximum likelihood estimation of a mixing distribution. *Applied Statistics*, 35, 302-309.

Dersimonian, R. (1990). Algorithm AS 221: Maximum likelihood estimation of a mixing distribution. Corrected. *Applied Statistics*, 39, 176.

Devroye, L. and Györfi, L. (1985). *Nonparametric Density Estimation: the LI View*. Wiley, New York.

Elffers, H. (2003). Analyzing neighborhood influence in criminology. *Statistica Neerlandica*, 57 (3), 347-367.

Everitt, B. S. (1993). *Cluster Analysis*. Halsted Press, New York.

Geman, S. and Hwang, C. (1982). Nonparametric Maximum Likelihood Estimation by the Method of Sieves. *Annals of Statistics*, 10, 401-414.

Goldberg, G. and Nold, F.C. (1980). Does reporting deter burglars? An empirical analysis of risk and return in crime. *Review of Economics and Statistics*, 62, 424-431.

Grünhut, M. (1951). Statistics in criminology. *Journal of the Royal Statistical Society, Series A*, 114, (2), 139-162.

Guerry, A. M. (1833). *Essai sur la statistique morale de la France*. Grochard, Paris.

Handsard (1828). *Parliamentary Debates, Official Report*. H.M.S.O., London.

Jobson, J. D. (1992). *Applied Multivariate Data Analysis, Volume II: Categorical and Multivariate Methods*. Springer-Verlag, New York.

Jordan, M. I. and Xu, L. (1996). On convergence properties of the EM algorithm for gaussian mixtures. *Neural Computation*, 1, 129-151.

Karlis, D. (2001). Exact ML estimation for Mixed Poisson Regression Models. *Statistical Modelling: An International Journal*, 1, 305-319.

Karlis, D. and Xekalaki, E. (1998). Minimum Hellinger distance Estimation for finite Poisson mixtures. *Computational Statistics and Data Analysis*, 29, 81-103.

Karlis, D. and Xekalaki, E. (1999). Improving the EM algorithm for mixtures. *Statistics and Computing*, 9, 303-307.

Karlis, D. and Xekalaki, E. (1999). On testing for the number of components in a mixed Poisson model. *Annals of the Institute of Statistical Mathematics*, 51 (1), 149-162.

Karlis, D. and Xekalaki, E. (2003) Mixtures Everywhere. *Stochastic Musings: Perspectives from the Pioneers of the Late 20th Century*, pp. 78-95

Laird, N. M. (1978). Nonparametric maximum likelihood estimation of a mixing distribution. *Journal of the American Statistical Association*, 73, 805-811.

Lesperance, M. and Kalbfleisch, J. D. (1992). An algorithm for computing the nonparametric MLE of a mixing distribution. *Journal of the American Statistical Association*, 87, 120-126.

Lewis, H. (1989). Insuring against Burglary Losses. *Home Office Research and Planning Unit Paper 52*, London: Home Office.

Lindsay, B. G. (1983a). The geometry of mixture likelihood, part I: a general theory. *Annals of Statistics*, 11, 783-792.

Lindsay, B. G. (1983b). The geometry of mixture likelihood, part II: the exponential family. *Annals of Statistics*, 11, 86-94.

Lindsay, B. G. and Roeder, K. (1992). Residual diagnostics in the mixture model. *Journal of the American Statistical Association*, 87, 785-795.

Lindsay, B. G. and Roeder, K. (1993). Uniqueness of estimation and identifiability in mixture models. *The Canadian Journal of Statistics*, 21, 139-147.

Lindsay, B. (1995). *Mixture Models: Theory, Geometry and Applications*. Regional Conference Series in Probability and Statistics, Vol 5, Institute of Mathematical Statistics and American Statistical Association.

MacDonald, Z. (2001). Revisiting the dark figure: a microeconomic analysis of underreporting of property crime and its implications. *British Journal of Criminology*, 41, 127-149.

MacDonald, Z. (2002). Official Crime Statistics: Their Use and Interpretation. *The Economic Journal*, 112 (February), 85-106.

Maguire, K. and Pastore, A.L. (1999). Sourcebook of Criminal Justice Statistics [Online], Available at: <http://www.albany.edu/sourcebook>.

Maguire, M. (1997). Crime statistics, patterns and trends: changing perceptions and their implications, in (M. Maguire, R. Morgan and R. Reiner, eds.) *The Oxford Handbook of Criminology*, 135-188. Clarendon Press, Oxford.

Milligan, G. W. and Cooper, M. C. (1985). An examination of procedures for determining the number of clusters in a data set. *Psychometrika*, 45, 325-342.

Mojena, R. (1977). Hierarchical grouping methods and stopping rules: an evaluation. *Computer Journal*, 20, 359-363.

Moran, P. A. P. (1948). The interpretation of statistical maps. *Journal of the Royal Statistical Society, Series B*, 39, 283-326.

Ogburn, W. F. (1935). Factors in the Variation of crime Among Cities. *Journal of the American Statistical Association*, 30, (189, March 1935), 12-34.

Pfanzagl, J. (1988). Consistency of maximum likelihood estimators for certain nonparametric families, in particular: mixtures. *Journal of Statistical Planning and Inference*, 19, 137-158.

Priebe, C.E. (1994). Adaptive mixtures. *Journal of the American Statistical Association*, 89 (427), 796-806.

Priebe, C.E. and Marchette, D.J. (1993). Adaptive mixture density estimation. *Pattern Recognition*, 26 (5), 771-785.

Quetelet, A. (1831). *Penchant au crime*. Hayez, Brussels.

Roeder, K. (1992). Semi-parametric estimation of normal mixture densities. *Annals of Statistics*, 20, 929-943.

Roeder, K. and Wasserman, L. (1997). Practical Bayesian density estimation using mixtures of normals. *Journal of the American Statistical Association*, 92, 894-902.

Scott, D. W. (1992). *Multivariate Density Estimation: Theory, Practice, and Visualization*. Wiley, New York.

Schlattmann, P. (2003). Estimating the number of components in a finite mixture model: the special case of homogeneity. *Computational Statistics & Data Analysis*, 41, 441–451.

Silverman, B.W. (1986). *Density Estimation for Statistics and Data Analysis*. Chapman and Hall, New York.

Simar, L. (1976). Maximum likelihood estimation of a compound Poisson process. *Annals of Statistics*, 4, 1200-1209.

Singer, B. (1984). Mathematical Models of Infectious Disease: Seeking New Tools for Planning and Evaluating Control Programs. Child Survival: Strategies for Research. *Supplement to Population and Development Review*, 10, 347-365.

Skogan, W.G. (1994). Contacts Between Police and Public: Findings From the 1992 British Crime Survey. *Home Office Research Study no. 134*, London: Home Office.

Snijders, T. A. B. and Bosker, R. (1999). *Multilevel analysis. An introduction to basic and advanced multilevel modeling*, Sage Publications, London.

Susko, E., Kalbfleisch, J.D. and Chen, J. (1997). Constrained nonparametric maximum likelihood estimation for mixture models. Technical Report Stat-97-08. *University of Waterloo, Department of Statistics and Actuarial Science*.

Tarling, R. (1986). Statistical Applications in criminology. *Statistician*, 35 (3), 369-388.

Van de Geer, S. (2003). Asymptotic theory for maximum likelihood in nonparametric mixture models. *Computational Statistics & Data Analysis*, 41, 453–464.

Van der Heijden, P. G. M., Cruyff, M. and Van Houwelingen, H. C. (2003). Estimating the size of a criminal population from police records using the truncated Poisson Regression Model. *Statistica Neerlandica*, 57 (3), 289-304.

Virras, E. (2001). Regional Development Issues: A Survival Analysis Approach. MSc thesis, *Department of Statistics, Athens University of Economics and Business*.

Xu, L. and Jordan, M.I. (1996). On convergence properties of the EM algorithm for Gaussian mixtures. *Neural Computation*, 1, 1996 (January), 129-151.

Yannaros, N. (1993). Analyzing incomplete count data. *Statistician*, 42, (2), 181-187.