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Name : Ferry Butar Butar, PhD

Title : Professor of Statistics

Department: Mathematics and Statistics

College : Sciences and Engineering Technology

Degrees Earned

PhD, Mathematical Statistics, University of Nebraska at Lincoln, 1997

MA, Mathematical Statistics, University of Nebraska at Lincoln, 1994

MS, Actuarial Science, University of Nebraska at Lincoln, 1991

BS, Statistics, Academy of Statistics Jakarta, 1978

Peer-Review Publications and Artistic Performances/Exhibitions

Articles (Selected)

Butar, F. and Lahiri, P. (1999). Empirical Bayes Estimation of Finite Population Variances, *Sankhya*, ser B, Vol 61, part 2, pp 305 - 314.

Butar, F. and Lahiri, P. (2002). Empirical Bayes Estimation of several Population Means and Variances under Random Sampling Variances Model, *Journal of Statistical Planning and Inference*, Vol 102, issue 1, pp 59-69.

Butar, F. and Lahiri, P. (2003). On Measures of Uncertainty of Empirical Bayes Small Area Estimators, *Journal of Statistical Planning and Inference*, Vol 112, issue 1-2, pp 63-76.

Albert, D.P., and Butar, F. (2003), Factoring N.D.s into the HPSA equation, *Texas Journal of Rural Health*, Vol. 21 number 4, pp 44-52.

Albert, D. and Butar, F.(2004). Distribution, Concentration, and Health Care Implications of Naturopathic Physicians in the United States, *Complementary Health Practice Review*, Vol 9, No. 2, pp 103-117.

Albert, D.P., and Butar, F. (2004), Diffusion on Naturopathic State Licensing in the United States and Canada, *Complementary Health Practice Review*, Vol 9, issue 3, pp. 193-207.

Butar Butar, F. (2005), Small Area Estimation, *Encyclopedia of Social Measurement*, In K. Kempf-Leonard (Ed), San Diego, CA, Academic Press. Vol 3, pp 489-494.

Albert, D.P., and Butar, F. (2005), Geography of Naturopathy in the United States: Current Status, *The Pennsylvania Geographer* Vol 42, no 2, pp 120 - 129.

Albert, D.P., and Butar, F. (2005), Downward Hierarchical Diffusion of Naturopathic Physicians in Oregon from 2000 to 2004 , *Northwest Science* Vol. 79, no. 1, pp 81-84

Albert, D.P., and Butar, F. (2005), Estimating the de-designation of single-county HPSAs in the United States by counting naturopathic physicians as medical doctors , *Applied Geography* Vol 25, pp 271-285.

Butar Butar, F. (2007), Permutation Tests for more than Two samples *Journal of Mathematical Sciences and Mathematics Education* Volume 2, number 2, pp. 20 - 29.

Weighting Adjustments in survey Sampling (with Chiao-chih Chang), European International Journal of Science and Technology, Vol. 2 No. 9, pp 214 - 236, 2013.

Fractal analysis of time series and distribution properties of Hurst exponent (with Malhar Kale), Journal of Mathematical Sciences and Mathematics Education, Vol. 6, No. 1, pp 8 - 19, 2011.

An Insight into Heavy-Tailed Distribution (with Annapurna Ravi). Journal of Mathematical Sciences and Mathematics Education, Vol. 5, No. 1, pp 19 - 31, 2010.

Comparison of the Power of the Paired Samples using Permutation Tests (with Ananda Manage). Journal of Mathematical Sciences and Mathematics Education, Vol. 4, No. 2, pp 19 - 31, 2009.

Permutation Tests for comparing two populations (with Jae-Wan Park). Journal of Mathematical Sciences and Mathematics Education, Vol. 3, No. 2, pp 19 - 30, 2008.

Books

Statistical Methods in Practice, May, 2016. ISBN: 9780692716496.

Solution Manual for odd problems of Statistical Methods in Practice, December 2016.

SPSS Student Manual, Wiley 2014.

The Geography of Naturopathic Physicians in the United States: A Rising Profession (with Albert D. P.), 2006, New York: The Edwin Mellen Press, ISBN: 0-7734-5941-3

Proceedings

Butar, F. and Williams, Quatraccia. (2001). Empirical Bayes Methods in Small Area Problems, *2001 Proceedings of the American Statistical Association, Bayesian Section*, Alexandria, VA, pp 1-5.

Butar, F.(2002). Spatial Hierarchical Bayes Small Area Estimators, *2002 Proc. Amer. Statist. Assoc., Bayesian Section*, Alexandria, VA, pp 346-350.

Suzanne Grimes, and Butar, F. (2003), Bayesian Methods Applied to Loss Models, *2003 Proc. Amer. Statist. Assoc., Bayesian Section*, Alexandria, VA, pp 1695-1700.

Abhishek Lall, Donald Albert, and Ferry Butar Butar (2004), Spatial Data Analysis of Lung Cancer Mortalities in Texas, *2004 Proc. Amer. Statist. Assoc.*, Alexandria, VA, pp 2328-2331.

Jing Wang and Ferry Butar Butar (2006), An empirical study of the bootstrap and the jackknife methods applied in double sampling **2006 Proc. Amer. Statist. Assoc.**, Alexandria, VA, pp. 3826 - 3828.

Aruna Saram and Ferry Butar Butar (2006), Testing outliers using a mixture population when some data are missing **2006 Proc. Amer. Statist. Assoc.**, Alexandria, VA, pp. 1230 - 1236.

Malhar Kale and Ferry Butar Butar (2007), Fractal Analysis of time series and distribution properties of Hurst exponent **Texas College Mathematics Journal** Volume 4, Number 1, pp 1-15.

Min Sun., and Butar Butar, F. (2007), Bayesian Multiple imputation and Maximum likelihood methods for Missing data **2007 Proc. Amer. Statist. Assoc.**, Alexandria, VA, pp

Butar Butar, F., Bandulasiri, A., Holt, M., and Hallum, C. (2007), Matrix plots in support of visualization of matrix characteristics **2007 Proc. Amer. Statist. Assoc.**, Alexandria, VA, pp.

Holt, M., and Butar Butar, F. (2007), Small-sample tests for efficacy in fixed-dose drug combination studies **2007 Proc. Amer. Statist. Assoc.**, Alexandria, VA, pp.

Bandulasiri, W.A., and Butar Butar, F. (2007), Statistical Analysis in one-day Cricket **2007 Proc. Amer. Statist. Assoc.**, Alexandria, VA, pp.

Permutation tests for paired samples: Power comparison (with Manage, A.), 2009
Proc. Amer. Assoc., Alexandria, VA, pp 4786 - 4796.

Chaos dynamic and fractal analysis of time series (with Malhar Kale). 2010
Proc. Amer. Statist. Assoc., Alexandria, VA, pp 1561 - 1568.

Weighting Methods in Survey Sampling (with Chiao-chich Chang),
Section on Survey Research Methods, Proc. Amer. Assoc., Alexandria, VA, pp 4768 - 4782, 2012

Honor/Award

Invitation by the Government of Indonesia through Ministry of Research, Technology, and Higher Education for 7 days (December 18 - 24, {2016}), Jakarta, Surakarta, and Surabaya Indonesia.

Invitation by Wiley for reviewing Introductory statistics by Prem for seven ed., chapter 4 - chapter 6 2011.

Invitation by Springer for reviewing Modern Mathematical statistics with Applications by Devore and Berk for second ed., 2009.

Invitation by CRC press for book proposal by Arijit Chaudhuri, Randomized Response and Indirect Questioning Techniques in Surveys, 2009.

Invitation by Houghton Mifflin for reviewing Understanding Basic Statistics, by Charles and Corrinne Brase, 5th. Ed., 2007.

Invitation by W.H. Freeman for reviewing Discovering Statistics by Daniel T. Larose, page 3-1 to 3-119, 2007.

Invitation by W.H. Freeman to attend summit on Teaching Introductory Statistics, New York City, 2007.

Invitation by McGraw Hill for reviewing Elementary Statistics: A step by step approach by Allan Bluman, fourth edition, chapter 5, page 237-284, 2006. The latest edition has special thanks for me.

Invitation by Elsevier for reviewing the new textbook An Introduction to Bayesian Analysis -Theory and Methods by Jayanta K. Ghosh, Mohan Delampady, and Tapas Samanta, 2005.

Invitation by Elsevier for reviewing the new textbook Modern Analytical Equipment for the Survey Analyst: Missing Data and Small area estimation by Nicholas T. Longford, 2004.

Invitation by Academic Press for writing an article of Small Area Estimation in Encyclopedia of Social Measurement, 2003.

Invitation by Wiley and Sons for reviewing the General Statistics textbook by Chase and Brown, 2003.

Work or Professional Experiences

Professor of Statistics, Dept. of Mathematics and Statistics, Sam Houston State University, Huntsville, Texas, 2012 to date.

Associate Professor, Dept. of Mathematics and Statistics, Sam Houston State University, Huntsville, Texas, 2004 to 2012.

Assistant Professor, Dept. of Mathematics, Computer Science and Statistics, Sam Houston State University, Huntsville, Texas, August, 1998 to 2004.

Visiting Assistant Professor, Dept. of Statistics, University of Central Florida, Orlando, Florida, August, 97 -August, 98.

Graduate Teaching Assistant, Dept. Mathematics and Statistics, Univ. of Nebraska, Lincoln.

Head of Food Crops Statistics, Central Bureau of Statistics of Indonesia,

Lecturer, Mathematical Statistics and Official Statistics, Academy of Statistics, Government of Indonesia.

Staff of Agricultural Statistics, Central Bureau of Statistics, Government of Indonesia.