

## **Mathematics & Statistics 2010 Research Publications**

- K. T. ARASU** and A. Gutman, *On Circulant Weighing Matrices*, Cryptography and Communications: Discrete Structures, Boolean Functions and Sequences, Vol 2, No 2, 2010, pages 155-171.
- K. T. ARASU**, I.S. Kotsireas, C.Koukouvinos and J.Seberry, *On Circulant and Two-Circulant Weighing Matrices*, Australasian Journal of Combinatorics, Vol 48, 2010, pages 43–51.
- K. T. ARASU** and Z. Little, *Balanced Perfect Sequences of Period 38 and 50*, Journal of Combinatorics, Information & System Sciences Vol 35, 2010, No 1-2, pages 109-113.
- K. T. ARASU** and G. Oliveri, *Antenna Arrays and Combinatorial Designs*, Proceeding on National Symposium of Antennas and Propagation, December 2010, pages 303-315.
- R. Akhtar, **A. EVANS**, and D. Pritikin, *Representation Numbers of Stars*, Integers, Vol 10, 2010, pages 733-745.
- A.KAPLAN** and **S. PEDERSEN**, *Quasidiagonal Extensions of the Reduced Group  $C^*$  Algebras of Certain Discrete Groups*, in “Operator Theory: Advances and Applications, Vol 1: Operator Matrices and Analytic Functions”, J.A. Ball, V.Bolotnikov, J.W.Helton, L.Rodman, I.M.Spitkovsky eds., 2010, pages 315-319, Birkhäuser.
- H. KHAMIS** and I. Persson, *A comparison of statistical tests for assessing the proportional hazards assumption in the Cox model when covariates are measured with error*, Journal of Statistics and Applications, Vol 5, 2010, pages 61-80.
- J. Bullock and **H. KHAMIS**, *A retrospective statistical analysis of the fusarium keratitis epidemic of 2004-2006*, Ophthalmic Epidemiology, Vol 17, 2010, pages 179-184.
- B.Guan and **Q. LI**, *Complex Monge-Ampere Equations and Totally Real Submanifolds*, Advances in Mathematics, Vol 225, 2010, No 3, pages 1185-1223.
- X. LIU**, *A Ward Type Bound on Additive Codes Over Finite Abelian Groups*, Journal of Combinatorics, Information & System Sciences, Vol 35, No 1-2, 2010, pages 115-127.
- X. LIU**, *Binary Divisible Codes with Maximum Dimension*, Journal Information and Coding Theory, Vol 1, No 4, 2010, pages 355-370.
- T. MCKEE**, *Clique Graph Representations of Ptolemaic Graphs*, Discussiones Mathematicae-Graph Theory, Vol 30, 2010, pages 651-661.
- T. MCKEE**, *Pentangulated Graphs*, AKCE International Journal of Graphs and Combinatorics, Vol 7, 2010, pages 113-119.
- T. MCKEE**, *Applications of Spanning Subgraphs of Intersection Graphs*, Chapter 3 in

“Advances In Interdisciplinary Applied Discrete Mathematics”, H.Karl and H.M. Mulder eds, 2010, World Scientific.

**M. RATNAPARKHI**, V.B.Waikar, and F.J.Schuermann, *On Bootstrap Method for the Selection of a Shrinkage Factor in Two-stage Estimation of the Reliability Function of an Exponential Distribution*, Journal of Modern Applied Statistical Methods, Vol 8, No 1, 2009, pages 233-236. (Did not report in 2009 publications)

**D. SLILATY**, *Integer Functions on the Cycle Space and Edges of a Graph*, Graphs Combinatorics, Vol 26, No 2, 2010, pages 293–299.

**T. TARPEY** and E. Petkova, *Principal Point Classification: Applications to Differentiating Drug and Placebo Responses in Longitudinal Studies*, Journal of Statistical Planning and Inference, Vol 140, 2010, pages 539-550.

**T. TARPEY**, E. Petkova, Y.Lu, and U.Govindarajulu, *Optimal Partitioning for Linear Mixed Effects Models: Applications to Identifying Placebo Responders*, Journal of the American Statistical Association, Vol 105, 2010, pages 968-977.

H.K.Amarchinta, **T. TARPEY**, and R.V.Grandhi, *Regression Uncertainty Quantification using Bootstrap Method for Residual Stress Field Predictions*, 51<sup>st</sup> AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, April 12-15, 2010, Orlando, FL, Paper # AIAA 2010-2519.

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**D.VOSS**, *Testing is Confidence Estimation: Partition Multiple Testing*, Journal of Statistical Theory and Practice, Vol 4, 2010, pages 559-569.

**W.WANG**, *On Hypothesis Testing with a Partitioned Random Alternative*, Science China Mathematics, Vol 53(4), 2010, pages 927-938.

**W.WANG**, *On Construction of the Smallest One-sided Confidence Interval for the Difference of Two Proportions*, Annals of Statistics, Vol 38, 2010, pages 1227-1243.

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**W.WANG**, *On Construction of the Smallest One-sided Confidence Intervals and its Application in Identifying the Minimum Effective Dose*, Chapter 11 in “Frontiers in Computational and Systems Biology”, J.Feng, W.Fu, and F.Sun eds., 2010, pages 219-229, Springer.

T.J.Reid, J.Robbins, H.Wu, and **X.ZHOU**, *Clone Sets in  $GF(q)$ -Representable Matroids*, Discrete Mathematics, Vol 310, 2010, pages 2389-2397.

X.Li, C.Zhou, **X.ZHOU**, Z.Wu, and B.Xie, *Papa Analysis for SOFDM and NC-SOFDM Systems in Cognitive Radio*, in “Lecture Notes in Computer Sciences, Vol 6221 (WASA 2010)”, pages 209-219, Springer.

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