

統計科學研究所

105 年度著作目錄

張源俊 (CHANG, YUAN-CHIN IVAN)

期刊論文

Yuan-chin Ivan Chang, accepted, “Multiple-class classification: ordinal and categorical labels”, *Communications in Statistics - Simulation and Computation*. (SCI) (IF: 0.397; SCI ranking: 92.7%)

Eunsik Park and Y-c. I. Chang, Aug. 2016, “Multiple-stage sampling procedure for covariate-adjusted response-adaptive designs”, *STATISTICAL METHODS IN MEDICAL RESEARCH*, 25,4 1490 -- 1511. (SCI) (IF: 4.634; SCI ranking: 4.5%,0.8%,5%,7.1%)

張馨文 (CHANG, HSIN-WEN)

期刊論文

Chang, Hsin-wen; El Barmi , Hammou; McKeague, Ian W, Oct. 2016, “Tests for stochastic ordering under biased sampling”, *JOURNAL OF NONPARAMETRIC STATISTICS*, 28 (4), 659-682. (SCI) (IF: 0.446; SCI ranking: 84.6%)

Hsin-wen Chang, Ian W. McKeague, Sept. 2016, “Empirical likelihood based tests for stochastic ordering under right censorship”, *Electronic Journal of Statistics*, 10(2), 2511-2536. (SCI) (IF: 0.736; SCI ranking: 60.2%)

陳珍信 (CHEN, CHEN-HSIN)

期刊論文

Tsay, Y.-C., Chen, C.-H.* and Pan, W.-H., Sept. 2016, “Ages at onset of 5 cardiometabolic diseases adjusting for nonsusceptibility: Implications for the pathogenesis of metabolic syndrome”, *AMERICAN JOURNAL OF EPIDEMIOLOGY*, 184(5), 366-377. (SCI) (IF: 5.036; SCI ranking: 6.9%)

Chen, C.-M., Chen, C.-H., Jun. 2016, “Heteroscedastic transformation cure regression models”, *STATISTICS IN MEDICINE*, 35(14), 2359-2376. (SCI) (IF: 1.533; SCI ranking: 25.2%,46.4%,58.4%,70.2%,70%)

學術會議(研討會)論文

Yang, H.-C., Chen, I.-C., Tsay, Y.-C., Li, Z.-R., Chen, C.-h., Hwu, H.-G., Chen, C.-H.*, Jun. 2016, “Using an event-history with risk-free model to study genetics of alcohol dependence”, paper presented at *The 25th ICSA Applied Statistics Symposium*, Atlanta, Georgia, U.S.A.: International Chinese Statistical Association, 2016-06-12 ~ 2016-06-15.

Lin, Y.-R., Chao, W.-H. and Chen, C.-H., Jan. 2016, “A flexible mover-stayer model for left-truncated

and interval-censored data”, paper presented at *ISI-ISM-ISSAS Joint Conference 2016*, Taipei, Taiwan: Institute of Statistical Science, Academia Sinica, 2016-01-31 ~ 2016-02-02.

Tsay, Y.-C., Chen, C.-H., Chu, Y.-T. and Lai, M.-S., Jan. 2016, “Logistic-AFT location-scale cure models for the relative survival with an application to survival analysis of HCV mono-infected patients”, paper presented at *ISI-ISM-ISSAS Joint Conference 2016*, Taipei, Taiwan: Institute of Statistical Science, Academia Sinica, 2016-01-31 ~ 2016-02-02.

技術報告

Chiang, J.-T., Chen, C.-H., Fu, T.-T., Lai, W.-R., Lai, C.-H., submitted, “Regression models for the willingness-to-pay of two nested scenarios in a contingent valuation survey”, *Manuscript*, pp. 32.

Wang, Z., Chen, C.-H.*, Chang, W.-H., Yang, Y., Unpublished, “A semiparametric mixture regression model for case-control current status data”, *Manuscript*, pp. 32.

Chang, C.-M., Chang, W.-H., Chen, C.-H.*, Lee, M.-B.*, Liao, S.-C., and Caine, E., Unpublished, “Gender-specific effects of aftercare and associated factors for suicide reattempts: A nationwide follow-up study in Taiwan”, *Manuscript*, pp. 39.

Kuo, H.-H., Chen, C.-H., Chiang, J.-T.*, Lee, M.-B.*, Liao, S.-C., Unpublished, “Identification of associated risk factors for psychiatric morbidity and suicide ideation in the elderly receiving home-visit services”, *Manuscript*, pp. 22.

Chen, C.-H.*, Tsay, Y.-C., Lu, Y.-H., Yang, H.-I.*, Chen, C.-J., Unpublished, “Lifetime risk of hepatocellular carcinoma for HBsAg-seropositive male cases taking account of the entry ages into a follow-up study of the REVEAL-HBV cohort”, *Manuscript*, pp. 43.

程毅豪 (CHEN, YI-HAU)

期刊論文

Yi-Hau Chen*, accepted, “Discussion on “Dissecting multiple imputation from a multi-phase inference perspective: what happens when God's, imputer's and analyst's models are uncongenial?””, *STATISTICA SINICA*. (SCI) (IF: 0.838; SCI ranking: 53.7%)

Chia-Hui Huang*, Yi-Hau Chen*, accepted, “Regression analysis for bivariate gap time with missing first gap time data”, *LIFETIME DATA ANALYSIS*. (SCI) (IF: 0.81; SCI ranking: 68.3%,54.5%)

Chia-Hui Huang*, Yi-Hau Chen, Chuang, Ya-Wen, accepted, “Semiparametric regression analysis of recurrent gap times in the presence of competing risks”, *STATISTICA SINICA*. (SCI) (IF: 0.838; SCI ranking: 53.7%)

Chia-Hui Huang, Bowen Li, Chyong-Mei Chen, Weijing Wang, Yi-Hau Chen*, accepted, “Subdistribution regression for recurrent events under competing risks: with application to shunt thrombosis study in dialysis patients”, *Statistics in Biosciences*.

Nilanjan Chatterjee, Yi-Hau Chen, Paige Mass, Raymond, Carroll, Mar. 2016, “Constrained maximum likelihood estimation for model calibration using summary-level information from external big-data sources”, *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*, 111, 107-117.

(SCI) (IF: 1.725; SCI ranking: 17.9%)

Nilanjan Chatterjee*, Yi-Hau Chen, Paige Maas, Raymond Carroll, Mar. 2016, “Rejoinder: Constrained maximum likelihood estimation for model calibration using summary-level information from external big-data sources”, *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*, 111, 130-131. (SCI) (IF: 1.725; SCI ranking: 17.9%)

Chi-Chung Wen, Yi-Hau Chen*, Jan. 2016, “Joint analysis of current count and current status data”, *JOURNAL OF MULTIVARIATE ANALYSIS*, 143, 153-164. (SCI) (IF: 0.857; SCI ranking: 52%)

Man-Jen Hsu, Yi-Hau Chen*, Jan. 2016, “Optimal linear combination of biomarkers for multi-category diagnosis”, *STATISTICS IN MEDICINE*, 35(2), 202-213. (SCI) (IF: 1.533; SCI ranking: 25.2%,46.4%,58.4%,70.2%,70%)

學術會議(研討會)論文

Yi-Hau Chen*, Aug. 2016, “Constrained maximum likelihood estimation for model calibration using summary-level information from external big-data sources”, paper presented at *Cross Strait Probability and Statistics Conference*, Chengdu, China: Chinese Institute of Probability and Statistics, 2016-08-11 ~ 2016-08-13.

Yi-Hau Chen*, Jun. 2016, “Constrained maximum likelihood estimation for model calibration using summary-level information from external big-data sources”, paper presented at *Workshop on Recent Developments in Empirical Likelihood Methodology (Invited Session)*, Singapore: Institute of Mathematical Science, 2016-06-06 ~ 2016-07-01.

陳璿宇 (CHEN, HSUAN-YU)

期刊論文

Chia-Hsin Liu, Bing-Ching Ho, Chun-Ling Chen, Ya-Hsuan Chang, Yi-Chiung Hsu, Yu-Cheng Li, Shin-Sheng Yuan, Yi-Huan Huang, Chi-Sheng Chang, Ker-Chau Li, and Hsuan-Yu Chen*, Feb. 2016, “ePIANNO: ePIgenomics ANNOtation tool”, *PLoS One*, e0148321. (SCI) (IF: 3.057; SCI ranking: 17.5%)

Hsuan-Yu Chen*, Chia-Hsin Liu, Ya-Hsuan Chang, Sung-Liang Yu, Bing-Ching Ho, Chung-Ping Hsu, Tsung-Ying Yang, Kun-Chieh Chen, Kuo-Hsuan Hsu, Jeng-Sen Tseng, Jiun-Yi Hsia, Cheng-Yen Chuang, Chi-Sheng Chang, Yu-Cheng Li, Ker-Chau Li, Gee-Chen Chang*, Pan-Chyr Yang, Jan. 2016, “EGFR-activating mutations, DNA copy number abundance of ErbB family, and prognosis in lung adenocarcinoma”, *Oncotarget*, DOI: 10.18632/oncotarget.7029. (SCI) (IF: 5.008; SCI ranking: 23%,16.9%)

鄭清水 (CHENG, CHING SHUI)

期刊論文

Shih-Hao Huang, Ching-Shui Cheng, 2016, “Optimal designs for quadratic regression with random block effects: The case of block size two.”, *JOURNAL OF STATISTICAL PLANNING AND INFERENCE*, 175, 67-77. (SCI) (IF: 0.727; SCI ranking: 61.8%)

鄭紀倫 (CHENG, CHI-LUN)

期刊論文

Chi-Lun Cheng, Shalabh, and Gaurav Garg, Mar. 2016, "Goodness of fit in restricted measurement error models.", *JOURNAL OF MULTIVARIATE ANALYSIS*, 145, 101-116. (SCI) (IF: 0.857; SCI ranking: 52%)

丘政民 (CHIOU, JENG-MIN)

期刊論文

Chen Y-C, Jung C-C, Chen J-H, Chiou J-M, Chen T-F, Chen Y-F, Tang S-C, Yeh S-J, Lee M-S, accepted, "Association of dietary patterns with global and domain-specific cognitive decline in Chinese elderly", *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*. (SCI, SSCI) (IF: 3.842; SCI ranking: 16.3%; SSCI ranking: 6.3%)

Chen Y-C, Hsiao C-J, Jung C-C, Hu H-H, Chen J-H, Lee W-C, Chiou J-M, Chen T-F, Sun Y, Wen L-L, Yip P-K, Chu Y-M, Chen C-J, Yang H-I, Nov. 2016, "Performance Metrics for Selecting Genetic Polymorphisms in Late-onset Alzheimer's Disease", *Scientific Reports*, 6: 36155. (SCI) (IF: 5.228; SCI ranking: 11.1%)

Chen, P.-Y., Chiou, J.-M., Yang, Y.-F., Chen, Y.-T., Hsieh, H.-L., Chang, Y.-L., Tseng, W.-Y. I., Sept. 2016, "Heterogeneous Aging effects on functional connectivity in different cortical regions: A resting-state functional MRI study using functional data analysis", *PLoS One*, 11(9): e0162028. (SCI) (IF: 3.057; SCI ranking: 17.5%)

Wang, J-L, Chiou, J.-M. and Müller, H-G, Jun. 2016, "Functional data analysis", *Annual Review of Statistics and Its Application*, Vol. 3, 257--295. (SCI) (IF: 3.045; SCI ranking: 7.9%,4.1%)

Chiou, J.-M. and Müller, H-G, Apr. 2016, "A pairwise interaction model for multivariate functional and longitudinal data", *BIOMETRIKA*, 103(2), 377-396. (SCI) (IF: 1.13; SCI ranking: 65.1%,66.1%,42.3%)

Chiou, J.-M., Yang, Y.-F. and Chen, Y.-T., Apr. 2016, "Multivariate functional linear regression and prediction", *JOURNAL OF MULTIVARIATE ANALYSIS*, 146, 301-312. (SCI) (IF: 0.857; SCI ranking: 52%)

黃信誠 (HUANG, HSIN-CHENG)

期刊論文

Hsin-Cheng Huang and Thomas C.M. Lee*, Oct. 2016, "High-Dimensional Covariance Estimation under the Presence of Outliers", *Statistics and Its Interface*, 9, 461-468. (SCI) (IF: 1.546; SCI ranking: 42.9%,37.6%)

黃彥棕 (HUANG, YEN-TSUNG)

期刊論文

- Loucks EB, Huang YT, Agha G, Chu S, Eaton CB, Gilman SE, Buka SL, Kelsey KT*, accepted, “Epigenetic Mediators Between Childhood Socioeconomic Disadvantage and Mid-Life Body Mass Index: The New England Family Study.”, *Psychosomatic medicine*. (SCI, SSCI) (IF: 3.638; SCI ranking: 23.9%,17.1%; SSCI ranking: 15.1%,10.9%)
- Freeman JR, Chu S, Hsu T, Huang YT*, accepted, “Epigenome-wide association study of smoking and DNA methylation in non-small cell lung neoplasms.”, *Oncotarget*. (SCI) (IF: 5.008; SCI ranking: 23%,16.9%)
- Liu J, Yang HI, Lee MH, Jen CL, Hu HH, Lu SN, Wang LY, You SL, Huang YT*, Chen CJ*, 2016, “Alcohol Drinking Mediates the Association between Polymorphisms of ADH1B and ALDH2 and Hepatitis B-Related Hepatocellular Carcinoma.”, *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*, 25(4), 693-9. (SCI) (IF: 3.622; SCI ranking: 33.8%,14.5%)
- Huang YT, Chu S, Loucks EB, Lin CL, Eaton CB, Buka SL, Kelsey KT*, 2016, “Epigenome-wide profiling of DNA methylation in paired samples of adipose tissue and blood.”, *Epigenetics*, 11(3), 227-36. (SCI) (IF: 4.774; SCI ranking: 19.4%,16.9%)
- Pan WC, Wu CD, Chen MJ, Huang YT, Chen CJ, Su HJ, Yang HI*, 2016, “Fine Particle Pollution, Alanine Transaminase, and Liver Cancer: A Taiwanese Prospective Cohort Study (REVEAL-HBV).”, *JOURNAL OF THE NATIONAL CANCER INSTITUTE*, 108(3).
- Huang YT*, Pan WC, 2016, “Hypothesis test of mediation effect in causal mediation model with high-dimensional continuous mediators.”, *Biometrics*, 72(2), 402-13. (SCI) (IF: 1.36; SCI ranking: 30.9%,50%,55.4%)
- Huang YT*, Cai T, Kim E, 2016, “Integrative genomic testing of cancer survival using semiparametric linear transformation models.”, *Statistics in medicine*, 35(16), 2831-44. (SCI) (IF: 1.533; SCI ranking: 25.2%,46.4%,58.4%,70.2%,70%)
- Kingsley SL, Eliot MN, Whitsel EA, Huang YT, Kelsey KT, Marsit CJ, Wellenius GA*, 2016, “Maternal residential proximity to major roadways, birth weight, and placental DNA methylation.”, *Environment international*, 92-93, 43-9. (SCI) (IF: 5.929; SCI ranking: 3.6%)
- Huang YT*, Cai T, 2016, “Mediation analysis for survival data using semiparametric probit models.”, *Biometrics*, 72(2), 563-74. (SCI) (IF: 1.36; SCI ranking: 30.9%,50%,55.4%)
- Huang YT*, Yang HI, Liu J, Lee MH, Freeman JR, Chen CJ*, 2016, “Mediation Analysis of Hepatitis B and C in Relation to Hepatocellular Carcinoma Risk.”, *EPIDEMIOLOGY*, 27(1), 14-20. (SCI, SSCI) (IF: 6.075; SCI ranking: 5.2%; SSCI ranking: 2.6%)
- Huang YT*, Freeman JR, Yang HI, Liu J, Lee MH, Chen CJ, 2016, “Mediation effect of hepatitis B and C on mortality.”, *European journal of epidemiology*, 31(6), 625-33. (SCI) (IF: 7.105; SCI ranking: 4%)
- Lin CL, Taggart AJ, Lim KH, Cygan KJ, Ferraris L, Creton R, Huang YT, Fairbrother WG*, 2016, “RNA structure replaces the need for U2AF2 in splicing.”, *Genome research*, 26(1), 12-23. (SCI) (IF: 11.351; SCI ranking: 3.6%,2.5%,3.5%)

黃顯貴 (HWANG, HSIEN-KUEI)

學術會議(研討會)論文

Olivier Bodini1, Matthieu Dien, Xavier Fontaine, Antoine Genitrini, Hsien-Kuei Hwang, Apr. 2016, “Increasing Diamonds”, paper presented at *12th Latin American Theoretical Informatics Symposium (LATIN 2016)*, Ensenada, Mexico: Centro de Investigación Científica y de Educación Superior de Ensenada, 2016-04-11 ~ 2016-04-16.

黃景祥 (HWANG, JING-SHIANG)

期刊論文

Ou, H.T., Yang, CY, Wang J.D., Hwang J.S., Wu J.S., Dec. 2016, “Life expectancy and lifetime healthcare expenditures for type 1 diabetes: a nation-wide longitudinal cohort of incident cases followed for 14 years”, *VALUE IN HEALTH*, 19(8), 976-984. (SCI, SSCI) (IF: 3.824; SCI ranking: 11.4%; SSCI ranking: 5.3%,2.9%)

Wu, C.F., Shen, F.H., Li YR, Tsao TM, Tsai MJ, Chen CC, Hwang J.S., Hsu HJ, Chao H, Chuang KJ, Chou CK, Wang YN, Ho CC, Su TC., Nov. 2016, “Association of short-term exposure to fine particulate matter and nitrogen dioxide with acute cardiovascular effects”, *SCIENCE OF THE TOTAL ENVIRONMENT*, 569-570, 300-305. (SCI) (IF: 3.976; SCI ranking: 14.2%)

Lee YC, Chang CH, Lin JW, Wu LC, Hwang JS, Chuang LM., Nov. 2016, “Comparing the risks of hospitalized heart failure associated with glinide, sulfonylurea, and acarbose use in Type 2 Diabetes – A Nationwide Study”, *INTERNATIONAL JOURNAL OF CARDIOLOGY*, DOI: 10.1016. (SCI) (IF: 4.638; SCI ranking: 16.1%)

Chang YT, Hwang JS, Hung SY, Tsai MS, Wu JL, Sung JM, and Wang JD., Jul. 2016, “Cost-effectiveness of hemodialysis and peritoneal dialysis: A national cohort study with 14 years follow-up and matched for comorbidities and propensity score”, *Scientific Reports*, doi: 10.1038/srep30266. (SCI) (IF: 5.228; SCI ranking: 11.1%)

Angers, J.F., Biswas, A., and Hwang, J.S., Apr. 2016, “Wavelet-based Bayesian nonlinear regression for the air pollution effects on clinic visits in small areas of Taiwan”, *Communications in Statistics - Simulation and Computation*, DOI: 10.1080/03610918.2016.1165839. (SCI) (IF: 0.397; SCI ranking: 92.7%)

Yen, T.J. Fu, Y.C., and Hwang, J.S., 2016, “Alters as species: Predicting personal network size from contact diaries”, *Social Networks*, 45, 78-88. (SSCI) (IF: 2.784; SSCI ranking: 3.5%,6%)

銀慶剛 (ING, CHING-KANG)

期刊論文

C.-H. Chang, H.-C. Huang and C.-K. Ing* , accepted, “Mixed domain asymptotics for a stochastic process model with time trend and measurement error”, *BERNOULLI*. (SCI) (IF: 1.372; SCI ranking: 30.1%)

N H. Chan, C.-K. Ing, Y. Li and C. Y. Yau, accepted, “ Threshold estimation via group orthogonal

greedy algorithm”, *JOURNAL OF BUSINESS & ECONOMIC STATISTICS*. (SCI, SSCI) (IF: 1.648; SCI ranking: 20.3%; SSCI ranking: 21.2%,28.6%)

江其衺 (JIANG, CI-REN)

期刊論文

Lu-Hung Chen, Ci-Ren Jiang*, 2016, “Multidimensional Functional Principal Component Analysis”, *STATISTICS AND COMPUTING*, 1-12. (SCI) (IF: 1.786; SCI ranking: 17.1%,14.6%)

李克昭 (LI, KER-CHAU)

期刊論文

Chou SJ, Wang C, Sintupisut N, Niou ZX, Lin CH, Li KC, Yeang CH, 2016, “Analysis of spatial-temporal gene expression patterns reveals dynamics and regionalization in developing mouse brain.”, *Scientific reports*, 6, 19274. (SCI) (IF: 5.228; SCI ranking: 11.1%)

Chen HY, Liu CH, Chang YH, Yu SL, Ho BC, Hsu CP, Yang TY, Chen KC, Hsu KH, Tseng JS, Hsia JY, Chuang CY, Chang CS, Li YC, Li KC, Chang GC, Yang PC, 2016, “EGFR-activating mutations, DNA copy number abundance of ErbB family, and prognosis in lung adenocarcinoma.”, *Oncotarget*, 7(8), 9017-25. (SCI) (IF: 5.008; SCI ranking: 23%,16.9%)

Liu CH, Ho BC, Chen CL, Chang YH, Hsu YC, Li YC, Yuan SS, Huang YH, Chang CS, Li KC, Chen HY, 2016, “ePIANNO: ePIgenomics ANNOtation tool.”, *PLoS one*, 11(2), e0148321. (SCI) (IF: 3.057; SCI ranking: 17.5%)

劉維中 (LIU, WEI-CHUNG)

期刊論文

Wei-Ping Chan¹, I-Ching Chen, Robert K. Colwell, Wei-Chung Liu, Cho-ying Huang, Sheng-Feng Shen, Mar. 2016, “Seasonal and daily climate variation have opposite effects on species elevational range size”, *SCIENCE*, 351, 1437-1439. (SCI) (IF: 34.661; SCI ranking: 3.2%)

彭健育 (PENG, CHIEN-YU)

專書(論文集)之一章

Peng, C. Y.*, Cheng, Y. S., Jul. 2016, “Threshold degradation in R using iDEMO”, editor(s): M. Dehmer, Y. Shi, F. Emmert-Streib, *Computational Network Analysis with R*, pp. 83-124, New York: John Wiley & Sons.

潘建興 (PHOA, FREDERICK KIN HING)

期刊論文

Tai-Chi Wang, Frederick K.H. Phoa, accepted, “Focus statistics for testing the degree centrality in

social networks”, *Network Science*.

Yuan-Lung Lin, Frederick Kin Hing Phoa, Ming-Hung Kao, submitted, “Partial Hadamard Matrices: Construction via General Difference Sets and Application to fMRI Designs”, *STATISTICA SINICA*. (SCI) (IF: 0.838; SCI ranking: 53.7%)

Frederick K.H. Phoa, accepted, “A swarm intelligence based (SIB) method for optimization in designs of experiments”, *Natural Computing*. (SCI) (IF: 1.31; SCI ranking: 38.1%,53.1%)

Tai-Chi Wang, Frederick K.H. Phoa, Mar. 2016, “A Scanning Method for Detecting Clustering Pattern of Both Attribute and Structure in Social Networks”, *PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS*, 445, 295-309. (SCI) (IF: 1.785; SCI ranking: 29.1%)

Frederick K.H. Phoa, Ray-Bing Chen, Wei-Chung Wang, Weng Kee Wong, Feb. 2016, “Optimizing Two-Level Supersaturated Designs by Particle Swarm Techniques”, *TECHNOMETRICS*, 58, 43-49. (SCI) (IF: 1.435; SCI ranking: 26%)

Frederick K.H. Phoa, Peter C.Y. Weng, Yen-Sheng Chang, Jan. 2016, “A mathematical model on the propagation of node attributes on a social network”, *IEEE Transactions on Engineering Sciences*, 104-117.

Frederick K.H. Phoa, Tai-Chi Wang, Shu-Ching Lin, Jan. 2016, “A Search of Maximum Generalized Resolution Quaternary-code Designs via Integer Linear Programming ”, *STATISTICS AND COMPUTING*, 26, 277-283. (SCI) (IF: 1.786; SCI ranking: 17.1%,14.6%)

Yuan-Lung Lin, Frederick K.H. Phoa, Jan. 2016, “Constructing near-Hadamard designs with (almost) D-optimality by General Supplementary Difference Sets ”, *STATISTICA SINICA*, 26, 413-427. (SCI) (IF: 0.838; SCI ranking: 53.7%)

學術會議(研討會)論文

Frederick K.H. Phoa, Dec. 2016, “Circulant Orthogonal Array: Its Construction and Application to fMRI Experiments”, paper presented at *The 2016 ICOSA International Conference*, Shanghai, China: ICOSA, 2016-12-19 ~ 2016-12-22.

Frederick K.H. Phoa, Dec. 2016, “A New Construction Method for Latin Hypercube Designs with Good Space Filling Property via Factor Collapse”, paper presented at *Conference of Experimental Design and Analysis 2016*, Taipei, Taiwan: Academia Sinica, 2016-12-15 ~ 2016-12-17.

Frederick K.H. Phoa, Sept. 2016, “Circulant Orthogonal Array: Its Construction and Application to fMRI Experiments”, paper presented at *International Conference on Advances in Interdisciplinary Statistics and Combinatorics 2016*, Greensboro, North Carolina, USA: University of North Carolina, 2016-09-30 ~ 2016-10-02.

Frederick K.H. Phoa, Aug. 2016, “A New Multiple Objective Method via Swarm Intelligence and its Applications to Searching Good Latin Hypercube Designs”, paper presented at *The 22nd International Conference on Computational Statistics*, Oviedo, Spain: IASC, 2016-08-23 ~ 2016-08-26.

Frederick K.H. Phoa, Aug. 2016, “A New Multiple Objective Method via Swarm Intelligence and its Applications to Searching Good Latin Hypercube Designs”, paper presented at *The 12th*

International Conference on Natural Computation, Changsha, China: Hunan University, 2016-08-13 ~ 2016-08-15.

Frederick K.H. Phoa, Jun. 2016, "Circulant Orthogonal Array: Its Construction and Application to fMRI Experiments", paper presented at *The 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting*, Hong Kong: Chinese University of Hong Kong, 2016-06-27 ~ 2016-06-30.

Frederick K.H. Phoa, Jun. 2016, "A Generalized Class of Quaternary Code Designs with Good Resolution and Aberration", paper presented at *The 25th South Taiwan Statistics Conference*, Kaohsiung, Taiwan: National Sun Yat-Sen University, 2016-06-24 ~ 2016-06-25.

Frederick K.H. Phoa, Jun. 2016, "A Generalized Class of Quaternary Code Designs with Good Resolution and Aberration", paper presented at *The Fourth International Conference on the Interface between Statistics and Engineering*, Palermo, Italy: University of Palermo, 2016-06-20 ~ 2016-06-22.

Frederick K.H. Phoa, May. 2016, "A New Construction Method for Latin Hypercube Designs with Good Space Filling Property via Factor Collapse", paper presented at *International Conference on Design of Experiments 2016*, Memphis, Tennessee, USA: University of Memphis, 2016-05-10 ~ 2016-05-13.

Frederick K.H. Phoa, Apr. 2016, "Network Exploration by Complements of Graphs with Graph Coloring", paper presented at *2016 Sunbelt XXXVI*, Newport Beach, California, USA: INSNA, 2016-04-05 ~ 2016-04-10.

Frederick K.H. Phoa, Mar. 2016, "A Swarm Intelligence Based (SIB) Natural Heuristic Optimization Method and its Applications in Statistics", paper presented at *CENTRA Kickoff Meeting*, Taichung, Taiwan: CENTRA, 2016-03-30 ~ 2016-03-31.

Frederick K.H. Phoa, Mar. 2016, "A Brief Review on Quaternary-code Designs", paper presented at *The 4th Japan-Taiwan Conference on Combinatorics and its Applications*, Fukuoka, Japan: Tamkang University, 2016-03-05 ~ 2016-03-07.

謝叔蓉 (SHIEH, SHWU-RONG GRACE)

期刊論文

Jan-Gowth Chang, Chia-Cheng Chen, Yi-Ying Wu, Ting-Fang Che, Yi-Syuan Huang, Kun-Tu Yeh, Grace S. Shieh, Pan-Chyr Yang, Sept. 2016, "Uncovering synthetic lethal interactions for therapeutic targets and predictive markers in lung adenocarcinoma", *Oncotarget*, Vol. 7, No. 45. (SCI) (IF: 5.008; SCI ranking: 23%, 16.9%)

蔡恆修 (TSAI, HENGHSIU)

期刊論文

Henghsiu Tsai, Ruey S. Tsay*, Edward M.H. Lin, and Ching-Wei Cheng, Oct. 2016, "Doubly Constrained Factor Models with Applications", *STATISTICA SINICA*, 26(4), 1453-1478. (SCI) (IF: 0.838; SCI ranking: 53.7%)

Hwai-Chung Ho, Hung-Yin Chen, Henghsiu Tsai*, Oct. 2016, “Value at risk for integrated returns and its applications to equity portfolios”, *STATISTICA SINICA*, 26(4), 1631-1648. (SCI) (IF: 0.838; SCI ranking: 53.7%)

專書(論文集)之一章

Joyce Chang, Henghsiu Tsai, Ya-Hui Su*, and Edward M. H. Lin, Aug. 2016, “A Three-Parameter Speeded Item Response Model: Estimation and Application”, editor(s): L. Andries van der Ark, Daniel M. Bolt, Wen-Chung Wang, Jeffrey A. Douglas, Marie Wiberg, *Quantitative Psychology Research - The 80th Annual Meeting of the Psychometric Society, Beijing, 2015*, pp. 27-38, Switzerland: Springer International Publishing.

楊欣洲 (YANG, HSIN-CHOU)

期刊論文

Yang, H.-C.* and Lin, Y.-T., Nov. 2016, “Homozygosity disequilibrium and its gene regulation”, *BMC Proceedings*, 10, 27. (PubMed)

Chen, S.-J, Lia, D.-L., Shen, T.-W., Yang, H.-C., Chen, K.-C. and Chen, C.-H.* , Aug. 2016, “Genetic signatures of heroin addiction”, *MEDICINE*, 95. (SCI) (IF: 2.133; SCI ranking: 25.8%)

Liang, Y.-J., Lin, Y.-T., Chen, C.-W., Lin, C.-W., Chao, K.-M., Pan, W.-H., and Yang, H.-C.*, Jun. 2016, “SMART: Statistical Metabolomics Analysis – An R Tool”, *ANALYTICAL CHEMISTRY*, 88, 6334-6341. (SCI) (IF: 5.886; SCI ranking: 5.3%)

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