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關於我

[教師個人 CV\(連結\)](#)

公共衛生研究所 副教授

公衛所指導學生論文 (代表 5 篇)

1. 使用序列核關聯檢定偵測家族資料的基因與環境交互作用之最佳檢定
2. 急性心臟衰竭的統計預後模型
3. 非線性遞延分配模型之多變量分析策略
4. 新模型選取策略 - 逐步支援向量機
5. 使用機器學習梯度提升法優化約登指數-尋找生物標記最佳組合之新策略

學歷

美國波士頓大學生物統計學 博士
國立台灣大學流病所生統組 碩士
國立政治大學應用數學系 學士

學術專長

統計遺傳學、臨床試驗、生物統計、流行病學

代表著作 (5 篇)

1. Guo CY*(corresponding author) , Wang RH, Yang HC. Family-Based Gene-Environment Interaction Using Sequence Kernel Association Test (FGE-SKAT) For Complex Quantitative Traits. Scientific Reports 2021; 11(1):7431. doi: 10.1038/s41598-021-86871-2.PMID: 33795796,
2. Guo CY *(co-corresponding author), Wu MY, Cheng HM*(co-corresponding author). The Comprehensive Machine Learning Analytics for Heart Failure. International Journal of Environmental Research and Public Health 2021; 18(9):4943. doi: 10.3390/ijerph18094943.PMID: 34066464
3. Guo CY*(corresponding author), Yang YC, Chen YH. The Optimal Machine Learning-Based Missing Data Imputation for the Cox Proportional Hazard Model. Frontiers in Public Health 2021; 9:680054. doi: 10.3389/fpubh.2021.680054. eCollection 2021.PMID: 34291028
4. Guo CY*(corresponding author),Huang HY, Kuo PC, Chen YH. Extensions of the Distributed Lag Non-Linear Model (DLNM) to Account for Cumulative Mortality. ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH 2021; 28(29):38679-38688. doi: 10.1007/s11356-021-13124-0. Epub 2021 Mar 18.PMID: 33735414,



5. Guo CY*(corresponding author), Liu TW, Chen YH. A Novel Cross-Validation Strategy for Artificial Neural Networks Using Distributed-Lag Environmental Factors. PLoS One 2021; 16(1):e0244094. doi: 10.1371/journal.pone.0244094. eCollection 2021.PMID: 33411794
6. Guo CY*(corresponding author), Chou YC. A Novel Machine Learning Strategy for Model Selections - Stepwise Support Vector Machine (StepSVM). Plos One 2020; 15(8):e0238384. doi: 10.1371/journal.pone.0238384. eCollection 2020.PMID: 32853243
7. Guo CY, Chan CH, Chou YC, Sung* SH(co-corresponding author), Cheng HM*(co-corresponding author). A Statistical Prediction Model for Acute Heart Failure Patients That is Consistent Within 5-year Follow-Ups. Journal of the Chinese Medical Association: JCMA 2020; 83(11):1008-1013. doi: 10.1097/JCMA.000000000000403.PMID: 32773590

