

DR. SHARIFAH SAKINAH SYED ABD MUTALIB

SENIOR LECTURER

My area of research interest is statistical analysis. My main research interest is Robust Statistics, which is related to outlier detection. I proposed an improved robust estimator in 2019 named TOC to detect outliers in multivariate data and found that TOC is a promising robust estimator for a low dimensional data. Currently, I have been working on robust clustering and other multivariate methods.



RESEARCHER PROFILE

Scopus[®] 57189374634

ORCID 0000-0003-1312-6158

Google scholar SHARIFAH SAKINAH SYED
ABD MUTALIB

EDUCATION

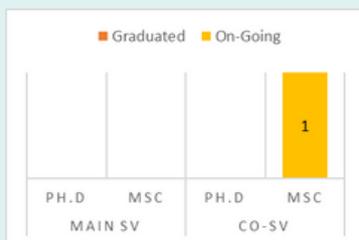


- Doctor of Philosophy (Statistics), UMP SA
- Master of Science (Statistics), UKM
- Bachelor of Science with Honours (Actuarial Science), UKM

AREAS OF EXPERTISE

- Outlier detection
- Robust Statistics
- Multivariate Data
- Applied Statistics

SUPERVISION



COLLABORATORS



CONTACT

- +6012-9864383
- s.sakinah@umt.edu.my
- fskm.umt.edu.my

SELECTED RESEARCH PROJECTS

- FRGS-EC. Development of Robust Principal Component Analysis Procedure for Outlier Detection in Health Data. (2023 - Present). RM28,000.
- 2. Geran Penyelidikan Jangka Pendek Fasa 1/2019 (GPJP 1/2019) UCTATI. Robust Outlier Detection Algorithm for Multivariate Data. (2019 - 2021). RM2,200.

SELECTED PUBLICATIONS

- S.S.S. Abd Mutalib, S.Z. Satari, and W.N.S. Wan Yusoff. Comparative Study of Test on Covariance Performance in Two Outlier Scenarios (2024). 3rd International Conference on Applied & Industrial Mathematics and Statistics 2022 (ICoAIMS 2022). AIP Conference Proceedings 2895. 090001.
- S.S.S. Abd Mutalib, S.Z. Satari, and W.N.S. Wan Yusoff. A New Single Linkage Robust Clustering Outlier Detection Procedures for Multivariate Data (2023). Sains Malaysiana. 8(52).
- Sharifah Sakinah Syed Abd Mutalib, Siti Zanariah Satari & Wan Nur Syahidah Wan Yusoff (2022). Synthetic Multivariate Data Generation Procedure with Various Outlier Scenarios using R Programming Language. Jurnal Teknologi. 84(3): 89-101.
- Sharifah Sakinah Syed Abd Mutalib, Siti Zanariah Satari & Wan Nur Syahidah Wan Yusoff (2021). A Review of Outliers-Detection Methods for Multivariate Data. Journal of Statistical Modeling and Analytics. 3(1): 1 - 15.
- Sharifah Sakinah Syed Abd Mutalib, Siti Zanariah Satari & Wan Nur Syahidah Wan Yusoff (2021). Comparison of Robust Estimators for Detecting Outliers in Multivariate Datasets, Journal of Physics: Conference Series. 1 - 9.