Allan Vikiru

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Education

Strathmore University

MSc. Information Technology (Business Intelligence & Data Analytics Option) [Grade: Pass] June 2022 - June 2024

 Masters Thesis: A Predictive Model for Determining Vegetable-Derived Macronutrients for a Diabetic Patient under supervision of Professor Vincent Omwenga.

BSc. Informatics & Computer Science (Grade: First Class Honours)

March 2017 - September 2021

Publications

Ayankoso, S., Wang, Z., Shi, D., Yang, W., Vikiru, A., Kamau, S., Muchiri, H., & Gu, F. (2024). Development of Long-Range, Low-Powered and Smart IoT Device for Detecting Illegal Logging in Forests. Journal of Dynamics, Monitoring and Diagnostics. https://doi.org/10.37965/jdmd.2024.550

Simiyu, D., Vikiru, A., Muchiri, H., Gu, F., & Butime, J. (2024). A Chainsaw-Sound Recognition Model for Detecting Illegal Logging Activities in Forests. In A. D. Ball, H. Ouyang, J. K. Sinha, & Z. Wang (Eds.), Proceedings of the UNIfied Conference of DAMAS, IncoME and TEPEN Conferences (UNIfied 2023) (pp. 797–806). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-49421-5 65

Vikiru, A., Muiruri, M., & Ateya, I. (2023). An Overview on Cloud Distributed Databases for Business Environments (arXiv:2301.10673). arXiv. https://doi.org/10.48550/arXiv.2301.10673

Conferences

Presented

- Workshop presentation on Programming for IoT using Scratch on Raspberry Pi 400 for the Fundamentals of Raspberry Pi workshop held at Strathmore University on 10th November 2023.
- Vikiru, A., & Khakata, E. (2023). A Wearable Sensor System to Detect the Risk of Fireground Injuries among Firefighters. Paper presented to 5th International Symposium on Advanced Electrical and Communication Technologies, Casablanca, 15th March - 17th March.
- Vikiru, A., & Khakata, E. (2021). Detecting the Risk of Fireground Injuries among Firefighters using IoT. Paper presented to 6th Strathmore International Mathematics Conference, Nairobi, 28th June -2nd July.

Organised

- Aug 2024: Build an Open Source Dosimeter, held at Strathmore University
- July 2023 September 2024: Curbing Illegal Logging Patterns using Sound-Based Detection Techniques, as research project administrator for meetings and field visits.
- Nov 2023: Fundamentals of Raspberry Pi 400, held at Strathmore University

Attended

- Sept 2024: 5th International Conference on Smart Sensors and Application, held by Universiti Teknologi Malaysia (UTM) - Penang, Malaysia.
- Jan 2024: Innovation Summit 2024, held by Carnegie Mellon University Africa Kigali, Rwanda.
- June 2023: International Summer School in Cyber Security and Digital Forensics held by Brno University of Technology - Brno, Czech Republic

Teaching Experience

2024: **Artificial Intelligence Concepts** - Prepared and delivered course content and graded assessments for undergraduate students in Business Information Technology.

2024: **Information Security, Governance and the Cloud** - Prepared and delivered course content and graded assessments for undergraduate students in Statistics and Data Science.

2022-2024: Introduction to Programming - Delivered practical content and graded assessments as a teaching assistant for undergraduate students in Business Information Technology, Computer Networks and Cybersecurity, Statistics and Data Science and Electronics and Electrical Engineering.

2023-2024: **Information Systems Project** (Challenge-Based Learning Methodology) - Supervised projects for undergraduate students in Business Information Technology.

2023-2024: **Information Systems Project** (System Development Methodology) - Supervised projects for undergraduate and diploma students in Business Information Technology.