

SEMUIJU STUART DERECK

Curriculum Vitae

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Address : P.O. BOX 10830, Kampala, Uganda

EDUCATION

PhD University : South China University of Technology June 2024
Major : Software Engineering
Website : <https://www.scut.edu.cn/en/>
Location : Guangzhou, China

MSc University : Shenyang Aerospace University, China January 2017
Major : Computer Application Technology
Website : <https://en.sau.edu.cn/>
Location : Shenyang, China

BSc University : Makerere University January 2014
Major : Bachelor of Science in Software Engineering
(First Class Honors)
Website : <https://www.mak.ac.ug/>
Location : Kampala, Uganda

PUBLICATIONS

1. **Stuart D. Semujju***, Fangqing Liu, Han Huang, Yi Xiang, Xueming Yan, and Zhifeng Hao, “Knowledge Transfer based Many-Objective Approach for Finding Bugs in Multi-path Loops “Complex & Intelligent Systems, January 2024
Volume 10, pages 3235–3258. **(SCI)**
2. **Stuart D. Semujju***, Han Huang, Fangqing Liu, Yi Xiang, and Zhifeng Hao, “Search-Based Software Test Data Generation for Path Coverage based on a Feedback-Directed Mechanism,” in Complex System Modeling and Simulation, March 2023, Volume 3, Number 1, pp 12–31. **(EI)**
3. **Stuart Semujju***, Fangqing Liu, Han Huang, and Yi Xiang. Enhancing Fault Detection in Smart Contract Loops Through Adaptive Probabilistic Sampling. In Proceedings of the Genetic and Evolutionary Computation Conference Companion (GECCO '24 Companion). Association for Computing Machinery, New York, NY, USA, 731–734, 2024. **(EI)**

4. F. Liu, H. Huang, J. Su, **S. D. Semujju***, Z. Yang and Z. Hao, “Manifold-Inspired Search-based Algorithm for Automated Test Case Generation,” in IEEE Transactions on Emerging Topics in Computing. June 2022, Volume 10, Issue 2, pp. 1075-1090. **(SCI)**
5. Haotian Zhang, **Semujju Stuart Dereck***, Zhicheng Wang, Xianwei Lv, Kang Xu, Liang Wu, Ye Jia, Jing Wu, Zhuo Long, Wensheng Liang, X.G. Ma, Ruiyan Zhuang, “Large Scale Foundation Models for Intelligent Manufacturing Applications: A Survey”, **arXiv**, 2023.
6. P. Zhuojin, **S.D. Semujju***, L. Zhen, Y. Hua, “Extending Lifetime of Sensor Networks Based on Sleep-scheduled Routing Algorithm,” Journal of System Simulation, April 2019, vol. 31, No.4. **(Scopus indexed)**

WORK EXPERIENCE

1. Uganda Technology and Management University (UTAMU)

Responsibility : Senior Lecturer and Head of ICT services
 Period : October 2024-to date
 Location : Kampala, Uganda

2. South China University of Technology

Responsibility : **Teaching Assistant**

Modules Taught

- C, C++, Python programming
- Machine Learning
- Embedded Systems and IoT
- Cloud computing

Period : 2023-2024
 Location : Guangzhou, China

3. Jiuzhang Intelligent Co. Ltd (Algorithm Engineer Intern)

Responsibility : A.I face recognition based on training Neural Networks
 Period : 2020-2023
 Location : Foshan, China

4. Cellulant Uganda Limited (Implementation Engineer)

Responsibility : Integrate third party APIs to enable mobile payments
 Period : March 2014-August 2014
 Location : Kampala, Uganda

HONORS AND AWARDS

First Class Honors

Bachelor of Science in Software Engineering 2014

Title of Scholarship

1. China Scholarship Council for Masters in Computer Applications Technology 2014
2. South China University of Technology International Scholarship for Excellence 2017

RESEARCH INTERESTS

1. Machine Learning & Artificial Intelligence
2. Evolutionary Optimization
3. Internet of Things (IOT) and Embedded Systems
4. Cloud Computing

STUDENT SUPERVISION

Supervision of 50+ Masters and undergraduate students at UTAMU .

LANGUAGES

English: Excellent

Chinese: Good

REFERENCES

Name : Ambassador Judyth Nsababera
Email : jn2543@tc.columbia.edu
Position : Consulate General, Guangzhou, China

Name : Prof. Han Huang (PhD)
Email : hhan@scut.edu.cn
Position : Professor (PhD Supervisor)
Department : School of Software Engineering,
University : South China University of Technology, Guangzhou, China

Name : Dr Grace Bugembe (PhD)
Email : Kougaus@gmail.com
Position : Lecturer
Institution : College of Computing and Information Sciences

University : Makerere University, Kampala, Uganda