

Research Interests ICT4D, Wireless network and Mobile Applications.

Career Objective: To conduct research on emerging issues on Wireless network and Mobile Applications and ICT4D. Currently doing research

Current Projects

- on integrated systems; an ICT based solution to improve technological uptake by smallholder farmers
- Sexual and Gender Based Violence (SGBV) Digital Solution
- Curbing fake news in social media using data mining
- Machine learning on large scale e-Surveillance of crop pest and disease in Developing nations
- Creating transparent and trustworthiness in dairy value chain using blockchain
- Privacy mining and preservation, and trust establishment in Mobile Social Networks

Previous Projects

- Blockchain based content pricing model in mobile social networks
 - Context aware music streaming based on data analytics
 - Congestion and collision control in mobile wireless networks
 - DigiCrop Solution - Machine learning based platform to train and assist smallholder farmers on treatment, control and mitigation of Fall-Army Worm (Finalist on 2018 USAID Feed the Nation FAW Tech Prize)
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EDUCATION QUALIFICATIONS

- PhD, Information Systems, Jaramogi Oginga Odinga University, Bondo, Kenya, on going
- MTECH, Telecommunications Engineering, TUT, South Africa, 2011.
- Bachelor of Science in Computer Science., Moi University - Kenya, 2008
- Diploma in Information Technology, The Mombasa Polytechnic – Kenya, 1998
- Kenya Certificate of Secondary School (K.C.S.E), Aluor Girls School, 1992

WORK EXPERIENCE

May 2015 – Present: Lecturer at Masinde Muliro University of Science and Technology, School of Computing and Informatics, Department of Computer Science.

October 2013 – April 2015: Assistant Lecturer at Jaramogi Oginga Odinga University of Science and Technology, School of Informatics;

October 2010 – Oct 2013: Part Time Lecturer at Moi University, Department Electrical Communication Engineering

April 2000 – Oct 2010: Senior Technologist at Moi University:

Feb 1998 – March 2000; System Administrator at Hashi Empex Ltd- Eldoret

ADMINISTRATIVE EXPERIENCE

2018 to Present	Chairman of Department, Computer Science
Aug., 2015 – Jan 2016	Chairperson, Departmental Graduate Studies Committee
Jan 2017 – Jan 2018	Coordinator SCI, School Graduate Studies Committee (SGSC)
Sept., 2017 – 2020	Board Member, Open, Distance and E-Learning (ODEL)
August, 2017 – 2021	Coordinator SCI- Technical, Vocational, Education and Training (TVET)

PROFESSIONAL AFFILIATION/ACTIVITY

- Jan 2016- March 2017, Local consultant with GIZ,
- Advisory Board member- Lengo Agricultural Demonstration Centre(transfer technology and assisting farmers in problem solving)
- Member of IEEE
- Member of Africa Women in Technology – (Women in Tech Africa)
- Member of ICT4D in Africa
- TUT Alumni

1. Muganda L., Ondulo J. & **Rambim D.** (2020). Technological Decentralization and Livestock Data Management in Kenya: The Moderating Effect of Blockchain Technology. (E- ISSN 2278-1021/ ISSN 2319-5940)IJARCCE, Volume 9, Issue 5, May 2020. DOI 10.17148/IJARCCE.2020.9509)
2. Ondulo J.; Aduda D.; **Rambim D.** (2020). Availability and Integration of e-Health Technologies in Routine Service Delivery in Western Kenya. (E-ISSN 2278-1021/ ISSN 2319-5940 **International Journal of Advanced Research in Computer and Communication Engineering**, Vol. 9, Issue 6, June 2020. DOI 10.17148/IJARCCE.2020.9619 I12)
3. **Rambim D.**, Ondulo J. & Awuor F. (2020). Use of Participatory Approach to Determine adoption of ICTs Agricultural Services. (ISTAfrica paper_ref_129_11072_2020)
4. **Rambim D.A.** & Awuor F.M.(2020). Blockchain based Milk Delivery Platform for Stallholder Dairy Farmers in Kenya: Enforcing Transparency and Fair Payment" In Proceedings of IST-Africa Conference and Exhibition 2020, Kampala, Uganda
5. Awuor F., **Rambim D.** & Abuya T. e-Pest Surveillance: Large Scale Crop Pest Surveillance and Control. In Proceedings of the IST-Africa 2019, Nairobi, Kenya, May 2019.
6. C. ODOYO, J. MAINA, V. KIMELI, F. AWUOR and D. RAMBIM, "A Qualitative Approach To Understanding The Determinants Of Mobile Phone Users' Intention To Use Mobile Payment Services," 2019 *IST-Africa Week Conference (IST-Africa)*, 2019, pp. 1-8, doi: 10.23919/ISTAFRICA.2019.8764847.
7. Awuor F.M., Khisa J.W., & **Rambim D.A.** (2015). Delivering Equitable and Quality Education to Remote Kenya Using ICT. In Sodhi S.I (Ed.), *Emerging Issues and Prospects in African E-Government* (pp. 108-117). Hershey, PA, USA: IGI Global
8. Omieno K, Otanga D, & **Rambim D** (2015). BCS 110-Fundamentals of Computing-Universitywide e-Module. Published by Masinde Muliro University of Science & Technology
9. Awuor F., Djouani K., Kimutai K., & **Rambim D.** (2012). Link Adaptation in Ad Hoc Networks Based on Interference Minimization. In M.S. Obaidat, J.L. Sevillano & J. Filipe (Eds.), *Communications in Computer and Information Science* (pp. 492–502). Heidelberg: Springer
10. Awuor, F., Raburu, G., Onditi, A., & **Rambim, D.** (2016). Building E-Agriculture Framework in Kenya. *Journal of Agricultural Informatics* (ISSN 2061-862X), 7(1), 75-93.
11. D. A. **Rambim** and K. Djouani, "Cross-Layer Enhancement to Support TCP-based traffics in WLANs," *Wireless Personal Communications*: Springer 2013, Volume 70, Issue 4, Page 1827-1840.
12. **Rambim D.**, Ogara S., Liyala S., & Awuor F. (2016). Towards an integrated framework for rural development in Kenya. Paper presented at the IST-Africa 2016 Conference, Durban.

13. Awuor F.M., & **Rambim D.** ICT4D: A Survey of ICT-in-Agriculture in Kenya and other Africa Nations. In Proceedings of the 9th Conference of the Asian Federation for Information Technology in Agriculture ICTs for future Economic and Sustainable Agricultural Systems, Perth, Western Australia. 2014.
14. **D. A. Rambim** and K. Rabah, "ICT and Integrated System Framework for Rural Development," In Proceedings of ICEE/ICIT -2013 Conference: 8-12 December 2013, Cape Town, South Africa.
15. Awuor F. & **Rambim D.** (2013). *ICT solution architecture for e-Agriculture*. Paper presented at the IST-Africa 2013 Conference Proceedings, Nairobi
16. F.M. Awuor and **D. Rambim** "Rate Adaptation in Ad Hoc Networks Based on Pricing" Computer Technology and Applications, ISSN: 1934-7332
17. **D. A. Rambim**, M. Mzyece, and K. Djouani, "Enhancement of TCP in 802.11e Wireless Local Area Networks," In Proceedings of The IEEE 74th Vehicular Technology Conference (VTC 2011): VTC2011-Fall 5-8 September 2011, San Francisco, United States.
18. **D. A. Rambim**, M. Mzyece, and K. Djouani, "Improving the Performance of 802.11 Wireless LANs with MAC Adaptation," In Proceedings of The 13th Annual Southern Africa Telecommunication Networks and Applications Conference (SATNAC 2010), Spier Estate Stellenbosch, Western Cape, South Africa, (5th-8th Sept) 2010.

REFEREES

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