THE TECHNICAL UNIVERSITY OF KENYA

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Faculty: ENGINEERING AND THE BUILT ENVIRONMENT School: Electrical & Electronic Engineering Department: ELECTRONIC AND COMPUTER ENGINEERING Current Designation: Tutorial Fellow, ENERGY AND POWER ENGINEERING (DEPE) Office Telephone: +254(020) 2219929, 3341639, 3343672 Official Email: florence.chelangat@tukenya.ac.ke Consultation Hours: 8AM-5PM MON - FRI

EDUCATION						
LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR			
Masters of Science (M.Sc.)	ELECTRICAL ENGINEERING	UNIVERSITY OF KWAZULU- NATAL(South Africa)	2019			
Bachelor of Engineering (B.Eng)	ELECTRICAL ENGINEERING(POWER&ELECTRIC)	TECHNICAL UNIVERSITY OF KENYA(Kenya)	2014			

WORK EXPERIENCE					
PERIOD	INSTITUTION	POSITION			
2019 - DATE	TECHNICAL UNIVERSITY OF KENYA	TUTORIAL FELLOW			
2016 - 2019	TECHNICAL UNIVERSITY OF KENYA	GRADUATE ASSISTANT			
2014 - 2016	PAYTECH LIMITED	SUPERVISOR			

CURRENT RESEARCH PROJECTS

Modelling of the powerline communication noise in indoor environment Powerline Communication

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Chelangat, Florence, and Thomas Afullo. "Variational Bayesian Learning for the Modelling of Indoor Broadband Powerline Communication Impulsive Noise." Progress In Electromagnetics Research B 100 (2023).	View online	2023
Chelangat, F., and T. Afullo. "Low-voltage plc noise modelling." International Journal on Communications Antenna and Propagation (IRECAP) 12 (2022): 237.	View online	2022
F. Chelangat; T. J. O. Afullo; M. Mosalaosi Impedance Modelling Profiling and Characterisation of the Power Line Communication Channel, Progress in Electromagnetics Research Symposium (PIERS-Toyama), 2165-2171, 1-4 Aug 2018.	View online	2018
Chelangat, Florence, and Thomas Afullo. "Modelling of the Powerline Communication Bursty Impulsive Noise," Progress in Electromagnetics Research Symposium (PIERS-Prague), 3-6July 2023.	View online	2023
Chelangat, Florence, and Thomas Afullo. "K-means Initialisation for the Modelling of PLC Noise in Indoor Environment," IEEE AFRICON 20-22 Sept 2023.	View online	2023
F. Chelangat; T. J. O. Afullo; M. Mosalaosi Impedance Bidirectional Adaptive Coupler for Broadband PLC, The Southern Africa Telecommunication Networks and Applications Conference (SATNAC), 2-5 Sept 2018.	View online	2018
F. Chelangat; T. J. O. Afullo; Analysis of the Steady-State Distribution of PLC Impulsive Noise Characteristics, The Southern Africa Telecommunication Networks and Applications Conference (SATNAC), 27-29 Aug 2023.	View online	2023

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
Graduate Engineer	Engineers Board of Kenya
Graduate Student Member	Institute of Electrical and Electronic Engineering
IEEE Young Professionals	Institute of Electrical and Electronic Engineering
IEEE HKN	Institute of Electrical and Electronic Engineering

EXTRA INFORMAT	ION		
DESCRIPTION			
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