

SIMC 2021 Mathematical Modeling track Program			
Day	Time	Activity / Session Topic	Speaker
June 28, 2021	9:00-4:00	Pre- Conference School Pharmacometrics	Prof. Ene I Ette & Kutessa R. Bisaaso
June 29, 2021	9:00-12:30	No activity assigned	
	2:00-4:00	Special workshop on Analysis and Synthesis of Music using Mathematics and Computing	Prof. Dirk Schlingman
	2:00-4:00	Workshop- Python Ecosystem for Machine Learning	Prof. Bernard Manderick
June 30, 2021	9:00-9:30	Opening ceremony	VC Designate Dr Vincent Ogutu
	9.30-10:15	Plenary- Bayesian Inference and Decision Making for A/B Testing	Prof. Bernard Manderick
	10:15-10:45	Panel discussion	
	10.45-11.00	Break	
	11:00-11:40	Mathematical Modelling and Analysis of Corruption of Morals Amongst Adolescents with Control Measures in Kenya.	Grace Muthuri, Nathan Oigo & Cyrus Ngari
	11:40-12:20	Usefulness of Slope linear Regression through the data points for enhancement of discussion of results: The case of fluid Dynamics.	Animasaun Isaac Lare
	12:20-1.00	First passage dynamics of stochastic motion in heterogenous media driven by correlated white Gaussian and coloured non-Gaussian noises	Mutothya Nicholas
	1.00-2.00	Break	
	2.00-3.00	Plenary session- GAISEing into the Future of Data Science at the School Level	Prof. Christine Franklin-American Statistical Association ambassador
	3:10-3:40	Exact and approximate formulas for contact tracing on random trees	Augustine Okolie & Johannes Mueller.
	3:40-4:20	A model for predicting magnetic drug targeting of multifunctional drug carrier during Caputo-Fabrizio fractionalized blood flow through a microvasculature	Sachin Shaw & Annah Moitoi
July 1, 2021	9:00-10:00	Response Strategies for Covid-19 Pandemic in Kenya: Role and Value of Mathematical Modelling	Prof. Samuel Mwalili
	10.00-10.30	Break	
	10:30-11:10	A comparative analysis of Mathematical and Linear regression Models to predict the outcomes of Covid-19 Pandemic in Rwanda	Gratien Twagirumukiza
	11:10-11:50	Aligned magnetic field effect on unsteady natural MHD convection flow of a chemically reacting,	L Rama Mohan Reddy

		radiative and dissipative fluid past a porous vertical plate in the presence of continuous heat and mass flux	
	11:00-11:40	Efficient Sixth-order numerical block approach for direct integration of second order ordinary differential equations.	Olayemi Olanegan, Gbenga Ogunware & Ezekiel Omole
	12:30-2.00	Break	
	2.00-3:00	Plenary session- Pharmacometrics: The Quantitative Science Undergirding Drug Development and Pharmacotherapy	Prof. Ene Ette
	3:10-4:00	Uncertainty and Sensitivity Analysis Applied to an In-Host Malaria Model with Multiple Vaccine Antigens	Titus Orwa, Rachel Mbogo & Livingstone Luboobi
July 2, 2021	10:00-11:00	Plenary session- Rates of Decay in the Katznelson_Tzafriri Theorem	Dr. David Seifert
	11:00-11:30	Break	
	11.30-12:30	Future Research- Biometric Research Program Closing Remarks	Prof. John Odhiambo