

MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY



WEEKLY RESEARCH SEMINAR SERIES

MUST Community and General Public are cordially invited to attend the 1st Research Seminar Presentation

COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

DEPARTMENT OF BUILT ENVIRONMENT ENGINEERING

RESEARCH TOPIC: *Fuzzy and Conceptual-Fuzzy Modelling of Complex River Systems with Scarce Data. Case of Letaba River*

SPEAKER : *Dr. Zacharia Katambara (PhD. in Water Resource Engineering)*

BIOGRAPHY OF THE SPEAKER : Dr. Zacharia Katambara is a Senior Lecturer in the Department of Built Environment Engineering of the Mbeya University of Science and Technology with a PhD qualification awarded by the University of the Witwatersrand in South Africa and Masters and Bachelor Degrees both awarded by the University of Dar es Salaam. Dr. Katambara is a practicing consulting civil engineer, environmental impact assessment and environmental audit expert registered with Engineers Registration Board and National Environmental Management Council respectively. Dr. Katambara has more than 20 years of experience in academics, construction projects as well as research activities that look into civil engineering infrastructure development, water aspects in agriculture and has published more than 20 publications in peer-reviewed journals. Currently, Dr Katambara is the Principal of the College of Engineering and Technology at Mbeya University of Science and Technology.



R-ID NO: 0001

DATE: Wednesday 10th April, 2019

TIME: 04:00 PM

VENUE: NYERERE HALL

SUMMARY OF THE PRESENTATION: The investment in water infrastructure in river systems does not match the hydrometric data collection and water-use accountability practices. This has resulted to the creation of complex rivers systems with scarce data. A typical example in South Africa is the Letaba River system. The study investigated the applicability of fuzzy inference based, hybrid fuzzy inference-conceptual modelling approaches and conceptual model to highly developed and complex river systems with scarce data using Letaba River as a case study. Model performance evaluation showed that the performance is good in less impacted river reaches than the highly impacted ones for both models. The fuzzy inference based model was found to be a black box model although it statistical performed best. Further studies on the use of the hybrid fuzzy inference-conceptual modelling approach need to be undertaken with the aim of improving both statistical simulation performance and system representation in the reality of scarce data.

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WEEKLY RESEARCH SEMINAR SERIES

MUST Community and General Public are cordially invited to attend the 1st Research Seminar Presentation

INSTITUTE OF SCIENCE AND TECHNOLOGY (IST)

DEPARTMENT OF COMPUTER ENGINEERING

RESEARCH TOPIC: *An Integrated Mobile System for Enhancing Appointment Scheduling in Tanzanian Hospitals*

SPEAKER : *Mr. Godphrey Kyambile (MSc. in Computer Science)*

BIOGRAPHY OF THE SPEAKER : Mr. Godphrey Kyambile is a Tutorial Assistant in the Department of Computer Engineering Department at Mbeya University of Science and Technology with Masters Qualification awarded by Nelson Mandela Institute of Science and Technology and Bachelor Degree awarded by St. Joseph College of Engineering. Mr. Kyambile has more than seven years of experience in academics; has one publication in peer reviewed journal. Currently Kyambile is the acting Co-ordinator of Quality Assurance at the Institute of Science and Technology.



R-ID NO: 0002

DATE: Wednesday 10th April, 2019

TIME: 04:30 PM

VENUE: NYERERE HALL

SUMMARY OF THE PRESENTATION: The existing patient appointment scheduling systems face many challenges, such as patients spending long time waiting for services with no clear tracking mechanism for the appointments; doctors are attending many patients as they lack means of knowing who will show up in their appointment. Mobile technology appointment scheduling system can be used to replace the human and manual system of scheduling appointments and improve handling of patients' appointments at hospitals in Tanzania.

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SCHOOL OF HUMANITIES AND BUSINESS STUDIES (SHBS)

DEPARTMENT OF BUSINESS MANAGEMENT

RESEARCH TOPIC: Growth and Influence of Small Agro-Processing Firms on Employment Creation in Mbeya and Morogoro in Tanzania

SPEAKER : Dr. Visent Kipene (PhD. in Agricultural Economics)

BIOGRAPHY OF THE SPEAKER : Dr. Visent Kipene is a Senior Lecturer of Mbeya University of Science and Technology in the School of Humanities and Business Studies under the Department of Business Management. He is the editorial board member of the Agricultural Economics and Development Journal. He is a competent person with PhD qualification awarded by Sokoine University of Agriculture of Tanzania.



R-ID NO: 0003

DATE: Wednesday 10th April, 2019

TIME: 05:00 PM

VENUE: NYERERE HALL

SUMMARY OF THE PRESENTATION: This study examined the growth of small agro-processing firms and their influence on employment creation in relation to labour productivity in Mbeya and Morogoro regions of Tanzania. The study used both primary and secondary data where labour productivity and firm growth models were used in analysis and chow test was used in structural change test. The analysis revealed that most firms operated under capacity, hence employing below their capacity. Labour productivity growth was influenced by experience, education, training and physical capital.

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WEEKLY RESEARCH SEMINAR SERIES

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COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

DEPARTMENT OF HEALTH SCIENCE AND TECHNOLOGY

RESEARCH TOPIC: *Canine Parvovirus Variants in Wild Carnivores of the Serengeti–Maasai Mara Ecosystem and Domestic Dogs in Tanzania*

SPEAKER : *Mr. Optatus Mwalongo (MSc. in Health and Biomedical Science)*

BIOGRAPHY OF THE SPEAKER : Mr. Optatus Mwalongo is an Assistant Lecturer in the Department of Health Sciences and Technology at MUST. He holds a Masters Degree in Health and Biomedical Sciences awarded at Nelson Mandela-African Institution of Science and Technology, Tanzania (NM-AIST) and Bachelor Degree awarded by the University of Dar es Salaam. Currently, Mr Mwalongo is the Head of the Department of Health Sciences and Technology.



R-ID NO: 0004

DATE: Wednesday 10th April, 2019

TIME: 05:30 PM

VENUE: NYERERE HALL

SUMMARY OF THE PRESENTATION: Canine parvovirus (CPV) has since 1978 remained to be an important pathogen of domestic dogs and wild carnivore populations. CPV cause acute haemorrhagic enteritis and myocarditis mostly in puppies of felids and canids. This study determined host range and prevalence of CPV (CPV-2a/2b) in wild carnivores of the Serengeti-Maasai ecosystem. In this study, 9.1% of wild carnivore samples were positive for CPV (2a & 2b) whereas 10.4% of domestic dog samples were positive for CPV (2a and CPV-2b). This result suggests that there is an interspecies transmission of CPV antigenic variants between wild carnivores and domestic dogs.

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