

IEEE – 2017 INTERNATIONAL CONFERENCE IN INFORMATION AND COMMUNICATION TECHNOLOGIES (ICICT)

Conference Programme

Venue: Mulungushi International Conference Centre

Tuesday 5 September 2017

08:00- 08:30 hrs. Registration of Participants/ Obtaining bags and badges

Time	Themes/ Sessions
08:30-10:00	<p><u>1A - Opening Plenary (Moderator Prof. Mbale)</u></p> <ul style="list-style-type: none"> • Welcome by the Chair of the LOC Chair: Prof. Jameson Mbale • Welcome by the Platinum Sponsor: Mr Bonny Khunga • Welcome by University Sponsors Representative: Prof. Mumba or Prof. Ngoma or Prof Ngambi • Keynote Speaker (Local) - Prof. Sinjela, Board Chair - PACRA • Keynote Speaker (International) - Prof. Lisa Seymour, UCT - South Africa • Official Opening by the Hon. Minister of Higher Education (Prof Hon. Nkandu Luo, MP) • Photo Taking Session
10:00-10:30	Tea Break
10:30-11:30	<p><u>2A – Business Information Systems and Information Management Systems (Moderator Prof Libati)</u></p> <p>10 minutes each paper and 5 minutes discussions after presentation of papers</p> <ul style="list-style-type: none"> • A Capabilities Approach to Enterprise Resource Planning Education. Presenters Mampi Lubasi • An investigation on the challenges of Enterprise Resource Planning (ERP) Systems implementation in Zambia (A comparative study of three organisations)f. Presenters Morris Mkokweza; Jackson Phiri • Enterprise Content Management Implementation Challenges in the Southern African Development Community: A Financial Services Provider Perspective. Presenters Chris Hoëseb; Lisa Seymour • Factors that Influence the Adoption of E-Commerce: A Case Study of the Local Mining Suppliers and Contractors in Zambia. Presenters Hastings Maboshe Libati; Nathan Musonda
11:30-12:00	<p><u>3A – Cloud Computing (Moderator Dr Kunda)</u></p> <p>10 minutes each paper and 5 minutes discussions after presentation of papers</p> <ul style="list-style-type: none"> • A Comparative Study of Soap and Rest web services in the Banking Environment. Presenters Inambao Wakwinji; Douglas Kunda • Automation of the Candidate Registration for School Examinations in Zambia Using the Cloud Model. Presenters Banji Milumbe; Jackson Phiri; Monica Kalumbilo
12:00-14:00	Lunch Break and Networking
14:00-15:00	<p><u>4A – Computational Intelligence and Forensics (Moderator Dr S Tembo)</u></p> <p>10 minutes each paper and 5 minutes discussions after presentation of papers</p> <ul style="list-style-type: none"> • Demystifying Ransomware Attacks: Reverse Engineering and Dynamic Malware Analysis of WannaCry for Network and Information Security. Presenters Aaron Zimba; Luckson Simukonda; Mumbi Chishimba • Exploitation of DNS Tunneling for Optimization of Data Exfiltration in Malware-free APT Intrusions. Presenters Aaron Zimba; Mumbi Chishimba • HOSUR: A Novel Measure for Evaluation of Image Segmentation Quality. Presenters Macmillan Simfukwe; Bo Peng; Tianrui Li; Douglas Kunda
15:00-15:30	Tea Break

Time	Themes/ Sessions
15:30-16:30	<p><u>5A – Computer Networks (Moderator Dr J Phiri)</u> 15 minutes each paper and 15 minutes discussions after presentation of 3 papers</p> <ul style="list-style-type: none"> Identifying Botnets Intrusion & Prevention - A Review. Presenters Lubasi Musambo; Melissa K. Chinyemba; Jackson Phiri Performance Analysis of AODV Routing Protocols Under Black Hole Attack With Sink Shifting. Presenters Adedeji Sangodoyin; Okaile Marumo; Tshepo Moile; Emma Ramajalwa

19:00hrs Cocktail/ Dinner for Participants: Welcome Remarks by the Permanent Secretary – Ministry of Higher Education

Wednesday 6 September 2017

Time	Themes/ Sessions
08:30 – 08:50	<u>6A – Formation of the University Advisory Unit to Curriculum Development in ICT from Industry and Government</u>
08:50 – 09:10	<u>7A – Formation lunch of the ICT Journal (UNZA, CBU and Mulungushi Universities)</u>
09:10-10:00	<p><u>8A – Library and Information Science (Moderator Mr B Khunga)</u> 10 minutes each paper and 5 minutes discussions after presentation of papers</p> <ul style="list-style-type: none"> Access to a library's holdings in a digitised world: cataloguing and classification at the University of Zambia Libraries. Presenters Kimbo Shameenda Automated acquisitions housekeeping operations: experiences of the University of Zambia Library. Presenters Chewe Pailet Web Based Document Archiving Using Time Stamp And Barcode Technologies - A Case Of The University Of Zambia. Presenters Brian Mutale; Jackson Phiri
10:00-10:45	<p><u>9A – Data Science and Big Data (Moderator Dr D Kunda)</u> 10 minutes each paper and 15 minutes discussions after presentation of 3 papers</p> <ul style="list-style-type: none"> A Comparative Study of NoSQL and Relational Database. Presenters Hazael Phiri; Douglas Kunda Big Data and Data Science: The Future For Human Resource Management. Presenters Okaile Marumo; Tumisang Mmopelwa Blockchain - It's practical use for National Data Centres. Presenters Mulima Chibuye; Jackson Phiri
10:45-11:15	Tea Break
11:15-12:00	<p><u>10A – Devices and Mobile Phone Applications and Software (Moderator Prof. Libati)</u> 10 minutes each paper and 5 minutes discussions after presentation of 3 papers</p> <ul style="list-style-type: none"> Design of Accented Character-Based Captcha With Usability Tests For Online Transactions. Presenters Omowamiwa Olanrewaju; Seyi Osunade MyTF: A JOOMLA TEMPLATE DESIGN PACKAGE FOR MOBILE DEVICES. Presenters Jedidiah Ogwumike; Seyi Osunade User Acceptance of Mobile Application Development. Presenters Boyd Kungwana; Douglas Kunda; Mwenge Mulenga; Victoria Chama
12:00-12:45	<p><u>11A – ICT, e-Learning and e-Education (Moderator Dr S Tembo)</u> 10 minutes each paper and 15 minutes discussions after presentation of 3 papers</p> <ul style="list-style-type: none"> An evaluation of Teachers' Experiences and Perceptions on the introduction of Information and Communication Technologies (ICTs) as a mainstream subject in Secondary Schools: A Case Study of selected Schools in Lusaka Province. Presenters Edward Mwalimu, Jr. ICT as an Enabler to Academic Success of Students with Visually Impaired at Sim University: Hermeneutics Approach. Presenters Francis Simui; Sophie Kasonde-Ngandu; Leonorah Nyaruwata Impact of Discovery Learning Approach on Students' Performance in MATLAB Programming. Presenters Zita Lifelo; Chimanga Kashale

Time	Themes/ Sessions
13:00-14:00	Lunch Break
14:00-15:00	<p><u>12A – Engineering (Electrical and Electronics), Wireless Mobile Communications (3G, 4G and 5G) (Moderator Dr Jackson Phiri)</u></p> <p>10 minutes each paper and 5 minutes discussions after presentation of 3 papers</p> <ul style="list-style-type: none"> • Design of a Generic Wireless Remote Sensor Networks. Presenters Nalina Suresh • Grid Voltage Sensorless Control of D-STATCOM for Power Factor Correction. Presenters Francis Mulolani • Development of a Real Time trains Monitoring System (Case study for Tanzania Zambia Railway Authority). Presenters Hastings Maboshe Libati; Felix Kanungwe; Fines Miyoba; Ndiwa Mutemwa
15:00-15:30	Tea Break
15:30-16:30	<p><u>13A - GIS and Geospatial Sciences/ Sensors and Remote Sensing (Moderator Dr. Josephat Kalezhi)</u></p> <p>10 minutes each paper and 5 minutes discussions after presentation of 3 papers</p> <ul style="list-style-type: none"> • Adaptive Algorithm for Parameterization of Feature Extraction Techniques in Remote Sensing Images. Presenters Edmore Chikohora • Integration and Remote Monitoring of Wireless Sensor Networks in the Development of SMART Villages. Presenters Ray Mulenga; Josephat Kalezhi; Sonile Musonda • Mobile GIS For Enhanced Property Tax Collection: A Case of Lusaka Province Local Authorities. Presenters Victor Neene; Monica Kalumbilo

Thursday 7 September 2017

Time	Themes/ Sessions
08:00-09:00	<p><u>14A - ICT for Development (Moderator Mr Ariel Phiri)</u></p> <p>10 minutes each paper and 5 minutes discussions after presentation of 3 papers</p> <ul style="list-style-type: none"> • Digital Financial Services (DFS) as an alternative payment solution for higher education Institutions in Developing Countries. Presenters Clarence Mulundano, II • Transforming Youth Engagement in Local Governance through ICT. Presenters Lorna Mutegi; Rhoda Omenya; Joseph Sevilla; Daniel Machanje; John Olukuru • Web Presentation Using Json Or Xml; A Comparative Study In The Zambian Water Sector. Presenters Boyd Kungwana; Douglas Kunda; Victoria Chama • Information needs and seeking behaviour of women with no formal education: a case study of Ng'ombe Township in Lusaka, Zambia. Presenters Felesia Mulauzi-Zulu
09:00-09:30	<p><u>15A - ICT in Food Security and Environmental and Sustainability (Moderator Mr B Khunga)</u></p> <p>10 minutes each paper and 5 minutes discussions after presentation of 3 papers</p> <ul style="list-style-type: none"> • Towards Input Support and Grain Tracking Model For Small-Scale Farmers. Presenters Lessa Nzima; Okuthe Paul Kogeda; Manoj Lall • Vaccine Stock and Information Management System: A case of the Division of Vaccines and Immunization, Ministry of Health, Kenya. Presenters Daniel Machanje; Lorna Mutegi; Julie Egessa; Vincent Omwenga; John Kitonyo
09:30-10:00	Tea Break
10:00-12:00	<p><u>16A – Students Abstracts (Moderator Dr. Phiri and Kalezhi)</u></p> <p>10 minutes each paper and 5 minutes discussions after presentation</p> <ul style="list-style-type: none"> • Aircraft Maintenance and Spare Parts Tracking based on Cloud and Barcode Technologies. Presenters Thomas Muyumba; Jackson Phiri • Honeypot Analysis System - A Big Data Touch. Presenters Cheelo Lovemore • An investigation into the use of Koha as a library management system among libraries in Lusaka province of Zambia. Presenters Tuesday Bwalya; Adrian Banda; Daniel Zimba

Time	Themes/ Sessions
	<ul style="list-style-type: none"> • Wi-Fi Security -Wi-Fi Access Points Study. Presenters Christine Simfukwe; Samson M Shiwanwa; Jackson Phiri • The Rural Zambia Farming Mobile Application (RuZaFMA): Sustaining the Access of Battery Power Handheld Phone Presenters Matengele Kaira and Jameson Mbale
12:00-13:00	TUTORIALS (Matlab, SPSS, Scilab, LINUX, Althium, Genesys, COMSOL Multiphysics, Atlas ti, NS3, Moodle)
13:00-14:00	Lunch Break
14:00-14:30	<u>Official Closing of Conference</u> <ul style="list-style-type: none"> • Permanent Secretary Ministry of Higher Education
14:30-17:00	Visit to Chaminuka/ Lusaka Park