

ICAST 2014
6TH IEEE International Conference on
Adaptive Science and Technology
29 – 31 October

Venue: Covenant University, Ota, Nigeria

Wednesday, October 29, 2014

(The first day of ICAST 2014)

Location No. 1	Covenant University Guest House Conference Hall
08:00-09:00	Registration: Registration Desk at the Hotel main Entrance Hall
09:00-09:45	Opening Ceremony
09:45-10:30	Keynote Speaker: Professor Osvaldo Gervasi, University of Perugia, Italy
10:30-11:00	Tea Break
CEDS Room 1	Paper Session 1: Algorithms Chair: Prof. Rajesh Prasad
11:00-11:20	Arinze Akutekwe, Huseyin Seker and Sunday Iliya. Title: An Optimized Hybrid Dynamic Bayesian Network Approach using Differential Evolution Algorithm for Hepatocellular Carcinoma Diagnosis, Paper #122
11:20-11:40	Rajesh Prasad and Rama Garg. Title: Efficient Multi-word Parameterized Matching on Compressed Text, Paper #120
11:40-12:00	Husein A, Ahmad A. Secmen M Title: The Effectiveness of JADE Based Minimum Variance Distortionless Response Algorithm For DOA Estimation and Adaptive Beamforming in Multipath Smart Antenna Application, Paper #18
12:00-12:20	Ricardo Soto, Broderick Crawford, Cristian Galleguillos, Sanjay Misra and Eduardo Olguin. Title: Solving Sudokus via Metaheuristics and AC3, Paper #94
12:20-12:40	
CEDS Room 2	CEDS classroom
CEDS Room 2	Paper Session 2: Web Engineering Chair: Dr. Richard Wallace
11:00-11:20	Olayiwola Bello, David Ehira and James Ayeni. Title: Design of a Synchronous Virtual Learning System, Paper #83
11:20-11:40	John B. Oladosu, Adebimpe O. Esan, Stephen O. Olabiyisi, Christopher A. Oyeleye and Tayo Fagbola. Title: Development of a Web Based Aboriginal Virtual Patient System for training Medical Students, Paper #53

11:40-12:00	Udeze Chidiebele .C, Okafor Kennedy.C, Okezie Christiana.C, Okeke Ijeoma.O and Ezekwe Chinwe Geneva. Title: Performance Analysis of R-DCN Architecture for Next Generation Web Application Integration, Paper #4
12:00-12:20	
12:20-12:40	
CEDS Room 3	CEDS classroom
	Paper Session 3: Control Systems Chair: Dr. Samuel John
11:00-11:20	Edwin Umoh. Title: PARAMETER ESTIMATION AND ANTISYNCHRONIZATION OF MULTI-WING CHAOTIC FLOWS VIA ADAPTIVE CONTROL, Paper #125
11:20-11:40	Chinwe Ezekwe, Ekene Samuel Mbonu, Ikechukwu Patrick Okwu and Okafor Chinedu Kenedy. Title: THE DESIGN AND CONSTRUCTION OF MICROCONTROLLER BASED FLEXIBLE LIQUID DISPENSER, Paper #20
11:40-12:00	Sani Saminu, Nalan Ozkurt and Ibrahim Abdullahi Karaye. Title: Wavelet Feature Extraction for ECG Beat Classification, Paper #72
12:00-12:20	Ibrahim Abdullahi Karaye, Sani Saminu and Nalan Ozkurt. Title: Analysis of Cardiac Beats using Higher Order Spectra, Paper #131
12:20-12:40	
12:40-02:30	Lunch Break
CEDS Room 1	Paper Session 5: Cloud Computing Chair: Dr. Oluwagbemi
02:30-02:50	Alaba Olu Akingbesote, Mathew .O Adigun, Sibusiso.S Xulu, Misra Sanjay and Isaac Rotimi Ajayi. Title: Performance Analysis of Non-Preemptive Priority with Application to Cloud E-marketplaces, Paper #12
02:50-03:10	Manqoba Shabalala, Paul Tarwireyi and Matthew Adigun. Title: Privacy Monitoring Framework for Enhancing Transparency in Cloud Computing, Paper #19
03:10-03:30	Akinlolu Akande and Jean-Paul Van Belle. Title: Cloud Computing in Higher Education: A snapshot of Software as a Service, Paper #63
03:30-03:50	Zakhele Nxumalo and Paul Tarwireyi. Title: Towards Privacy with Tokenization as a Service, Paper #10
03:50-04:10	
04:10-04:30	
CEDS Room 2	Paper Session 6: Artificial Intelligence/Security Chair: Dr. Olawande Daramola
02:30-02:50	Farouq Aliyu and Audu Mabu. Title: Google Search Optimizer, Paper #148
02:50-03:10	Ima Essiet and George Audu. Title: Determination of Food Age Using Neural Network, Paper #24

03:10-03:30	Nuraddeen Magaji and Jamila Lamido. Title: FUZZY LOGIC CONTROLLER FOR MAGNETIC LEVITATION SYSTEM, Paper #64
03:30-03:50	A.B Akinnuwesi and Princely Ifinedo. Title: Employees' Non-Malicious, Counterproductive Computer Security Behaviors (CCSB) in Nigeria and Canada: An Empirical and Comparative Analysis, Paper #56
03:50-04:10	Oluwfemi Osho, Olasunkanmi Ogunleke and Adeyinka Falaye. Title: Frameworks for Mitigating Identity Theft and Spamming Through Bulk Messaging, Paper #74
04:10-04:30	Muhammad Ajiya, Nor Azura Malini Ahmad Hambali and Muhammad Syazuwan Abdul Wahab. Title: L-Band Single Wavelength Ring Cavity Configured Brillouin/Raman Fiber Laser, Paper #118
ICT Centre	ICT Centre
	Paper Session 4 Chair: Dr. Oyelade
02:30-02:50	Mohamed A. El-Zawawy and Mohammad N. Alanazi. Title: An Efficient Binary Technique for Trace Simplifications of Concurrent Programs, Paper #52
02:50-03:10	Casimer Decusatis, Robert Cannistra and Ludovic Hazard. Title: Managing multi-tenant services for software defined cloud data center networks, Paper #124
03:10-03:30	Pride Nyambi and Mamello Thinyane. Title: Persona Mapping for Usability of ICTD Services, Paper #96
03:30-03:50	Francielly Grigorio, Daniel Brito, Eudisley Anjos and Mario Zenha-Rela. Title: On Systems Project Abandonment: An Analysis of Complexity During Development and Evolution of FLOSS Systems, Paper #121
03:50-04:10	Andre Valdestilhas, Francisco Isidro Masseto and Airton Ferreira Junior. Title: An Adaptive Graphical User Interface based on Attention Level and diameter of eye pupil, Paper #93
04:10-04:30	Francisco Javier Mourín Moral and Luis de Marcos Ortega. Title: Perceptions and attitudes toward Interactive Whiteboards and Classroom Response Systems (CRS), Paper #109
04:30-04:50	Petr Sosnin, Vladimir Maklaev and Ekaterina Sosnina. Title: Question-Answer Reflection of an Operational Space in Conceptual Designing the Family of Software Intensive Systems, Paper #58
	End of the first Day
Thursday, October 30, 2014 (The second day of ICAST 2014)	
CEEDS Room 1	Covenant University Guest House Conference Hall
08:00-09:00	Registration: Registration Desk at the Hotel main Entrance Hall

09:00-09:45	Invited Talk: Dr Richard Wallace
09:45-10:30	Tea break
CEDS Room 1	Paper Session 9: Software Engineering Chair: Prof. Osvaldo Gervasi
10:30-10:50	Okewu Emmanuel and Olawande Daramola. Title: Component-based Software Engineering Approach to Development of a University e-Administration System, Paper #150
10:50-11:10	Kingsley Chiwuike Ukaoha and Frank Amadin. Title: COMPUTERIZED RESULT PROCESSING SYSTEM: A CASE STUDY OF THE DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF BENIN, Paper #143
11:10-11:30	Julius Quarshie Azasoo, Kafui Ayite and Felicia Apraku-Boadu. Title: Design of RF Based Multithreaded RFID Student Attendance Management Information System, Paper #30
11:30-11:50	Princely Ifinedo, Boluwaji Akinnuwesi and Samson Arekete. Title: Antecedent Factors to End-Users' Symbolic Acceptance of Enterprise Systems: An Analysis in Nigerian Organizations, Paper #54
11:50-12:10	Ambrose Azeta, Ibukun Iweoya and Samuel Ojumah. Title: ENHANCING EDUCATIONAL LEARNING WITH SOCIAL NETWORK PLATFORM, Paper #129
12:10-12:30	
CEDS Room 2	Paper Session 10: Mobile Computing Chair: Dr. Ambrose Azeta
10:30-10:50	Sirajo Abdullahi Bakura and Aminu Mohammed. Title: Lock-Free Hybrid Concurrency Control Strategy For Mobile Environment, Paper #135
10:50-11:10	Lukman Yusuf and Nuraddeen Magaji. Title: GA-PID CONTROLLER FOR POSITION CONTROL OF INVERTED PENDULUM, Paper #32
11:10-11:30	Babafemi Odusote. Title: Technologically Enabling Resource-constrained Enterprises in Developing Nations Through The Implementation of E-Commerce on-Demand Service Portals for a Grid Utility Computing Platform, Paper #144
11:30-11:50	Kudzai Chiponga, Paul Tarwireyi and Matthew Adigun. Title: A Version-Based Transformation Proxy For Service Evolution, Paper #89
11:50-12:10	
12:10-12:30	
CEDS Room 3	Paper Session 11: Power Chair: Dr. Adoghe
10:30-10:50	Abdulbasid Ismail Isa and Mukhtar F.Hamza. Title: EFFECT OF SAMPLING TIME ON PID CONTROLLER DESIGN FOR A HEAT EXCHANGER SYSTEM, Paper #113
10:50-11:10	Olamide Oladeji and O.O. Olakanmi. Title: A Genetic Algorithm

	Approach to Energy Consumption Scheduling under Demand Response, Paper #22
11:10-11:30	Olamide Oladeji and Vincent A. Onoja. Title: Techno-Economic Analysis of Biogas based Micro-generation for a University Facility, Paper #21
11:30-11:50	Adeyemi Abel Ajibesin, Gregory M. Wajiga, Mathew R. Odekunle and Charles Nche. Title: Reducing Multicast Power Consumption in WSNs Nodes, Paper #149
11:50-12:10	Waheed Oyekanmi, Ghadir Radman and Lazarus Uzoechi Title: Power System Contingency Ranking Based on the Generator Algebraic State Variables Score in Dynamic Security Assessment, Paper #68
12:10-12:30	Waheed Oyekanmi, Ghadir Radman, Adeniyi Babalola and Titus Ajewole. Title: Effects of STATCOM on the Critical Clearing Time of Faults in Multi-machine Power Systems during Transient Stability Analysis Studies, Paper #16
ICT Centre	Paper Session 12 Chair: Dr. Oladipupo
10:30-10:50	Carolina Tripp-Barba, Luis Urquiza-Aguiar, José Estrada, José Alfonso Aguilar-Calderón, Aníbal Zaldívar-Colado and Mónica Aguilar Igartua. Title: Impact of Packet Error Modeling in VANET Simulations, Paper #112
10:50-11:10	Moussa Moindze Soidridine and Dr Karim Konate. Title: A Survey of the distributed network management models and architectures: Assessment and Challenges, Paper #116
11:10-11:30	Tiguiane Yélékou and Toundé Mesmin Dandjinou. Title: Taking into account link quality in OLSR protocol core areas, Paper #17
11:30-11:50	Jose Alfonso Brito-Rojas, José Alfonso Aguilar Calderon, Omar Garcia-Sanchez, Carolina Tripp-Barba, Anibal Zaldívar-Colado and Sanjay Misra. Title: A Low-Cost Solar Cell Charger Prototype for Smartphone's Battery Charging, Paper #119
11:50-12:10	Octave Ringar, Kora Ahmed Dooguy, Cances Jean-Pierre, Aupetit-Berthelemot Christelle and Mampassi Benjamin. Title: Mitigating zenith angle limitations on spatial free space optical transmission link, Paper #7
12:10-12:30	Quoc Trung Pham and Thanh Long Tran. Title: Customer engagement in a Facebook brand community: An empirical study on Travel Industry in Vietnam, Paper #78
12:30-12:50	Atif Sohail Abid. Title: Extracting Public Web Service Description from WWW, Paper #44
12:30-01:30	Lunch Break
CEDS Room 1	Paper Session 13: Digital Communication Chair: Dr. Mohammed Ajiya
01:30-01:50	Obiseye Obiyemi and Tunji Ibiyemi. Title: Experimental Investigation of Rainfall Effect on Digital Satellite Television Reception in Nigeria-Initial Results, Paper #138

01:50-02:10	Joseph Sunday Ojo, Olalaken Lawrence Ojo and Christianah Idowu Joseph-Ojo. Title: Rain Height information from TRMM Precipitation Radar and Micro Rain Radar for Radio Communication Studies in Nigeria, Paper #46
02:10-02:30	Joseph Sunday Ojo and Pius Adewale Owolawi. Title: Intelligent Techniques to maintain QoS at SHF and EHF Satellite Systems Network in a Subtropical Climate, Paper #40
02:30-02:50	Kehinde Ogunyanda, Ayokunle Familua, Theo Swart, Hendrik Ferreira and Ling Cheng. Title: Adaptive Permutation Coded Differential OFDM System for Power Line Communications, Paper #91
02:50-03:10	Olanrewaju Yakubu, Funso Ariyo and Sijuwade Akintade. Title: Integration of DGs on Nigerian Transmission Network, Paper #70
03:10-03:30	Yinusa Adediran, Nasir Faruk, Adeseke Ayeni, Olabanji Kolade, Nazmat Surajudeen-Bakinde and Olayiwola Bello. Title: TV White Space in Nigeria in UHF Band: Geo-spatial Approach, Paper #49
CEDS Room 2	Paper Session 14: Distributed Computing Chair: Prof. Atayero
01:30-01:50	Olamide Oladeji and Akindele Aroge. Title: Priority-based Autonomous Load Control in Dynamic Pricing Environments, Paper #6
01:50-02:10	Olukayode Oki, Pragasen Mudali, Nathi Zulu and Matthew Adigun. Title: Using Node Position to Improve the Robustness of the IEEE 802.11s Authentication Mechanism for Wireless Mesh Networks, Paper #8
02:10-02:30	Raphael Onoshakpor. Title: Maintenance Precepts for Efficient Electricity Infrastructure in Sub-Saharan Africa: Case of Nigeria, Paper #130
02:30-02:50	Akinlolu Akande, Nicholas Kuilman, Mike Hart and Jean-Paul Van Belle. Title: Improving Customer Service in South African Contact Centers: Lessons Learn't from Australian Contact Centers, Paper #108
02:50-03:10	
CEDS Room 3	Paper Session 15: Power Chair: Dr. Adoghe
01:30-01:50	Kehinde Ogunyanda, Ayokunle Familua, Theo Swart, Hendrik Ferreira, Ling Cheng and Thokozani Shongwe. Title: Evaluation and Implementation of Cyclic Permutation Coding for Power Line Communications, Paper #65
01:50-02:10	Omowunmi Mary Longe, Suvendi Rimer, Khmaies Ouahada and Hendrick C. Ferreira. Title: Time Programmable Smart Devices for Peak Demand Reduction of Smart Homes in a Microgrid, Paper #66
02:10-02:30	Sunday Iliya, Eric Goodyer, Jethro Shell, John Gow and Mario Gongora. Title: Optimized Neural Network Using Differential

	Evolutionary and Swarm Intelligence Optimization Algorithms for RF Power Prediction in Cognitive Radio Network: A Comparative study, Paper #101
02:30-02:50	Mbonu Ekene Samuel, Okwu P. Ikechukwu, Inyama Hyacinth Chibueze, Okafor Kennedy Chinedu and Ezekwe Chinwe G. Title: Reliability Evaluation of Power Distribution Companies in Nigeria, Leveraging ICT Based Framework for Unbiased Performance Evaluation, Paper #5
02:50-03:10	Caroline Alenoghena, James Ambafi and Umar Dauda. Title: Embracing the Green Communication Initiative in Powering Telecommunication Networks in Nigeria, Paper #92
ICT Centre	Paper Session 16 Chair: Prof. Rajesh Prasad
01:30-01:50	Munyaradzi Kapfudza, Nyalleng Moorosi and Mamello Thinyane. Title: GA optimization of Hybrid Energy Systems for telecommunications in marginalized rural areas, Paper #102
01:50-02:10	Neha Pant, Maheshwari Prasad Singh and Prabhat Kumar. Title: Traffic and Resource based methods for Congestion Control in Wireless Sensor Networks: A Comparative Analysis, Paper #9
02:10-02:30	Shadreck Mudziwepasi and Mfundo Shakes Scott. Title: Assessment of a Wireless Sensor Network Based Monitoring Tool for Zero Effort Technologies: A Cattle-Health and Movement Monitoring Test Case, Paper #11
02:30-02:50	Aumdevi Barbudhe, Vishwajit Barbudhe and Chitra Dhawale. Title: Comparative Analysis of Security Mechanism of Mobile Ipv6 Threats against Binding Update, Route Optimization and Tunneling, Paper #75
02:50-03:10	Absalom Ezugwu, Marc-Eduard Frincu and Sahalu Junaidu. Title: Performance Characterization of Heterogeneous Distributed Commodity Cluster Resources, Paper #43
03:10-03:30	Jules Raymond Kala, Serestina Viriri and Jules-Raymond Tapamo. Title: An Approximation based Algorithm for Minimum Bounding Rectangle Computation, Paper #41
03:30-03:50	Surendra Thakur, O.O Olugbara, Richard Millham and H.W Wesso. Title: Transforming the voting paradigm – the shift from inline, to online to mobile voting, Paper #67
05:00-08:00	Dinner at Church Restaurant, Canaanland
Friday, October 31, 2014 (The third day of ICAST 2014)	
08:00-09:00	Covenant University Campus Tour/Departure