



International Conference on Computing, Communication and Security (ICCS-2015)



4-6 December, 2015

Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius



Friday, 4th December 2015

09.00 – 10.00	Registration of Participants (Outside of Chamarel Ballroom)		
09.00 – 09.30	Welcome Drink (Chamarel Foyer)		
10.00 – 10.10	OPENING Venue: Chamarel Ballroom		
10.10 – 10.45	Prof. Ganesan Subramaniam (Oakland University, Rochester, USA) Automotive Embedded System Security and Challenges		
10.45 – 11.15	Coffee Break (Chamarel Foyer)		
11.15 – 11.45	Prof. Sri Niwas Singh (Indian Institute of Technology, Kanpur, India) Intelligent System Applications in Solving Engineering Problems		
11.45 – 12.15	Prof. Sanjay Misra (Covenant University, Ota, Ogun State, Nigeria) Measurement Theory Principles and Software Complexity Metrics		
12.15 – 13.30	Lunch (180^o Restaurant)		
	Sessions		
Venue	Venue: Bel-Air	Venue: Wolmar	Venue: Nicoliere
Topic	Computer Networks	Data Science	Electronics
Session Chair	Clarel Catherine	Ramesh Kumar Mohapatra	Hippolyte Djonon Tsague
13.30 – 13.45	46-Performance Evaluation and Analysis of Layer 3 Tunneling between OpenSSH and OpenVPN in a Wide Area Network Environment <i>Irfaan Coonjah, Clarel Catherine and K. M. S. Soyjaudah</i>	58-Classification Performance Analysis of MNIST Dataset using a Multi-resolution Technique <i>Ramesh Kumar Mohapatra, Banshidhar Majhi and Sanjay Kumar Jena</i>	23-Experiential Analysis of the Effectiveness of Buck and Boost DC-DC Converters in a Basic off Grid PV System <i>Osamede Asowata, Ruaan Schoeman and Pienaar Christo</i>

13.45 – 14.00	111 -QoS-Aware Single Service Selection Mechanism for Ad-Hoc Mobile Cloud Computing <i>Ayotuyi Akinola, Alaba Akingbesote and Kudzai Chiponga</i>	72 -Least Squares SVM Approach for Abnormal Brain Detection in MRI using Multiresolution Analysis <i>Deepak Ranjan Nayak, Ratnakar Dash and Banshidhar Majhi</i>	67 -Outputs Analysis and Dual Immersion Method for Chaotic Systems <i>Kokou Languéh, Octaviana Datcu, Jean-Pierre Barbot, Gang Zheng and Krishna Busawon</i>
14.00 – 14.15	54 -6to4 Tunneling Framework using OpenSSH <i>Irfaan Coonjah, Pierre Catherine and K. M. S. Soyjaudah</i>	79 -A Brief Perspective of Context-Aware Recommender System and Services <i>Ebunoluwa Ashley-Dejo</i>	68 -Comparison of Different Antenna Arrays for the Channel Capacity <i>Shu-Han Liao, Chien-Hung Chen, Chien-Ching Chiu and Min-Hui Ho</i>
14.15 – 14.30	84 -Review of Channel Allocation Methods for TVWS Devices Using PAWS Protocol <i>Elesa Ntuli</i>	116 -Weighting Technique on Multi-timeline for Machine Learning-based Anomaly Detection System <i>Kriangkrai Limthong</i>	133 -Load Frequency Control of a Nonlinear Two-Area Power System <i>Rajeshree Ramjug-Ballgobin, Sayed Zahiruddeen Sayed Hassen and Sonia Veerapen</i>
14.30 – 14.45	49 -Experimental Performance Comparison between TCP vs UDP tunnel using OpenVPN <i>Irfaan Coonjah, Pierre Catherine and K. M. S. Soyjaudah</i>	95 -Designing Budget Forecasting and Revision System Using Optimization Methods <i>Mohammad Jafar Tarokh and Kaban Koochakpour</i>	138 -Design and Development of Interval Arithmetic Library using Q Format Data Representation : A FPGA Approach <i>Vidya Mansur and Rajashekar Shettar</i>
14.45 – 15.00			145 -Computation Beyond Moore's Law: Adaptive Field-Effect Devices for Reconfigurable Logic and Hardware-Based Neural Networks <i>Udo Schwalke</i>
15.00 – 15.15	Coffee Break (Bay View Bar)		
Venue	Venue: Bel-Air	Venue: Wolmar	Venue: Nicoliere
Topic	Computer Networks/Cloud Computing	Data Science	Electronics
Session Chair	Akinola Ayotuyi Tosin	Sanjay Misra	Banty Tiru
15.15 – 15.30	Content based e-Authentication Technique for e-Governance <i>Dr Kunwar Singh Vaisla</i>	200 -Enhanced Rule Extraction by Augmenting Internal Representation of Feed Forward Neural Network <i>Vinita Srivastav, Chitra Dhawale and Sanjay Misra</i>	134 -Observer-based Control for Biomass Regulation in Wastewater Treatment Plants <i>Rajeshree Ramjug-Ballgobin, Krishna Busawon, H C S Rughooputh and R Binns</i>
15.30 – 15.45	189 -EWSA: An Enriched Workflow Scheduling Algorithm in Cloud Computing <i>Shilpi Saxena and Deepika Saxena</i>	204 -Analysing Road Accident Data Using Association Rule Mining <i>Sachin Kumar and Durga Toshniwal</i>	154 -Memristor Model For Massively-Parallel Computations <i>Dalibor Biolek, Viera Biolkova and Zdenek Kolka</i>
15.45 – 16.00	192 -An Analysis of the Suitability of Cloud Computing Services in the Nigerian Education Landscape <i>Sanjay Misra and Adewole Adewumi</i>	202 -Parallelization of Association Rule Mining : A Survey <i>Shivani Sharma and Durga Toshniwal</i>	155 -Stability of Digitally Emulated Mem-Elements <i>Zdenek Kolka, Viera Biolkova and Dalibor Biolek</i>

16.00 – 16.15	157 -Depiction of Experimental Findings for a Cloud Enterprise Architecture <i>Promise Mvelase</i>	203 -Effectiveness of LSP Features for Text Independent Speaker Identification <i>Sharada Chougule and Mahesh Chavan</i>	201 -An Investigation on Residential Exposure to Electromagnetic Field from Cellular Mobile Base Station Antennas <i>Amar Renke and Mahesh Chavan</i>
16.15 – 16.30	104 -Cloud-based Technologies for Addressing Long Vehicle Turnaround Times at Recycling Mills <i>Joubert van Tonder and John van der Poll</i>	197 -Performance Evaluation of Classification Techniques for Devanagari Script <i>Sanjay Misra, Chitra Dhawale and M.S. Sonawane</i>	92 -Characteristics of Transfer Function of Power Lines having Tapped Branches in the Propagation Path <i>Banty Tiru</i>
16.30 – 16.45		193 -Developing a Mobile Application for Taxi Service Company in Nigeria <i>Sanjay Misra and Adewole Adewumi</i>	112 -First Principle Leakage Current Reduction Technique for CMOS Devices <i>Hippolyte Djonon Tsague and Twala Bhekisipho</i>
Saturday, 5th December 2015			
09.00 – 09.30	Registration of Participants Venue: Maconde (Secretariat Room)		
09.00 – 09.30	Welcome Drink (Chamarel Foyer)		
09.30 – 09.40	WELCOME Venue: Chamarel Ballroom		
09.40 – 10.10	Prof. Andrew Ware (University of South Wales, United Kingdom) Friend or Foe? What is the potential for AI systems?		
10.10 – 10.40	Prof. Zoran Bojkovic (University of Belgrade, Serbia) Recent Advances in Mobile Cloud Computing for Fifth Generation (5G) Networks		
10.40 – 11.00	Coffee Break (Chamarel Foyer)		
Sessions			
Venue	Venue: Bel-Air	Venue: Wolmar	Venue: Nicoliere
Topic	Wireless Sensor Network	Society/Mobile Computing	Social Network
Session Chair	Kavi Khedo	Pravin Selukoto Paupiah	Upasana Singh
11.00 – 11.15	57 -Comparative Study of Wireless Sensor Network Standards for Application in Electrical Substations <i>Fabrice Labeau, Akash Agarwal and Basile Agba</i>	91 -A framework for the Support of Mobile Knowledge Workers in South Africa <i>Michelle Robberts, Klarissa Engelbrecht and John Andrew Van der Poll</i>	10 -Visualising and Analysing Online Social Networks <i>Manoj Maharaj and Kambale Vanty Muhongya</i>
11.15 – 11.30	25 -Sixsoid: A new paradigm for k-coverage in 3D Wireless Sensor Networks <i>Manjish Pal and Nabajyoti Medhi</i>	169 -Rapid Prototyping with a Local Geolocation API <i>Geerish Suddul, Kevin Nundran, Jonathan L. K. Cheung and Morgan Richomme</i>	85 -Personal Preferences Analysis of User Interaction based on Social Networks <i>Cheng-Hung Tsai, Han-Wen Liu, Tsun Ku and Wu-Fan Chien</i>

11.30 – 11.45	6-Physical Layer Secrecy Solution for Passive Wireless Sensor Networks <i>Avinash Thombre and Aditya Trivedi</i>	177-Design and Implementation of an Automatic Staff Availability Tracking System <i>Kyle Stone and Jan Spies</i>	103-Privacy Challenges in Proximity Based Social Networking: Techniques & Solutions <i>Asslinah Mocktoolah and Kavi Kumar Khedo</i>
11.45 – 12.00	18-An Efficient Key Management Scheme in Hierarchical Wireless Sensor Networks <i>Xinyang Zhang and Jidong Wang</i>	75-Performance Evaluation of Matrix- and EXIF-Based Video Rotation Methods in MJPEG-Based Live Video Encoder <i>Dejan Skvorc, Mirela Ostrek and Matija Horvat</i>	113-Customer engagement manifestations on Facebook pages of Tesco and Walmart <i>Swaleha Peeroo, Martin Samy and Brian Jones</i>
12.00 – 12.15	98-An Improved Energy Efficient Chain Base Routing in Wireless Sensor Networks <i>Matimu Ngobeni and Zanele Mahlobogwane</i>		114- The Impact and Opportunities of e-Tutoring in a Challenged Socio-Economic Environment <i>Petra Le Roux and Marianne Look</i>
12.15 – 13.15	Lunch (180⁰ Restaurant)		
Venue	Venue: Bel-Air	Venue: Wolmar	Venue: Nicoliere
Topic	Computer Security & Cloud Computing	ICT in Society	Social Network
Session Chair	Ranjan Dasgupta	Chel-Mari Spies	Geerish Suddul
13.15 – 13.30	106-How to Detect Unknown Malicious Code Efficiently? <i>Jaehee Lee, Hyoungjun Kim, Hyunsik Yoon and Kyungho Lee</i>	81-A Standard Compliant Blood Bank Management System with Enforcing Mechanism <i>Amarjeet Cheema, Siddharth Srivastava, Praveen Srivastava and Dr. B K Murthy</i>	132-A Classification Method to Detect if a Tweet Will be Popular in a Very Early Stage <i>Xianghui Zhao, Xiaoyi Wang, Zheng Zhan, Yong Peng and Yuangang Yao</i>
13.30 – 13.45	161-Security in the Internet of Things through Obfuscation and Diversification <i>Shohreh Hosseinzadeh, Sampsa Rauti, Sami Hyrynsalmi and Ville Leppänen</i>	110-Green ICT Maturity Models - Towards a Generic Approach <i>Ravi Foogooa, Chandradeo Bokhoree and Kumar Dookhitram</i>	172-Do you know Big Brother is Watching you on Facebook? <i>Mrinal Sohoraye, Vandana Goria, Suniti Nundoo-Ghoorah and Premanand Koonjal</i>
13.45 – 14.00	93-IDPS based Framework for Security in Green Cloud Computing and Comprehensive Review on Existing Frameworks and Security Issues <i>Komal Gill and Anju Sharma</i>	99-An Integrated Model for ICT Governance and Management Applied to the Council for Evaluation, Accreditation and Quality Assurance of Higher Education Institutions in Ecuador (CEAACES) <i>Carlos W. Montenegro and Denys A. Flores</i>	Software Engineering 73-Introducing FERPS: A Framework for Enterprise Resource Planning Selection <i>Upasana Singh and Omesh Singh</i>
14.00 – 14.15	166-Proactive digital forensics in the cloud using Virtual Machines <i>Dirk Ras and H.S. Venter</i>	45-Vehicle Security and Forensics in Mauritius and Abroad <i>Pravin Selukoto Paupiah</i>	158-Agent Development Platforms for Bioinformatics <i>Ajit Kumar Gopee, Geerish Suddul, Yasmina Jauferally-Fakim and Admiral Chikudo</i>
14.15 – 14.30	42-A Detection Mechanism of DoS Attack using Adaptive NSA Algorithm in Cloud Environment <i>Sumana Maiti, Chandan Garai and Ranjan Dasgupta</i>		176-Requirements Determination of Object-oriented Programming Software Tools for Novice Learners <i>Yeeshtdevisingh Hosanee and Shireen Panchoo</i>

14.30 – 15.00	Coffee Break (Bay View Bar)		
	Venue: Bel-Air	Venue: Wolmar	Venue: Nicoliere
Topic	Biometrics, Multimedia & Image Processing	Big Data	Education
Session Chair	Jaehee Lee	Rekha Singhal	Perianen Appavoo
15.00 – 15.15	173 -UOM Multimodal Face and Ear Database <i>Bibi Nazmeen Boodoo-Jahangeer and Sunilduth Baichoo</i>	47 -Overview of Data Quality Challenges in the Context of Big Data <i>Suraj Juddoo</i>	61 -Context-Aware Mechanisms for Improving the Cognitive Processes of Users in Mobile Learning Platforms <i>Brita Curum and Kavi Kumar Khedo</i>
15.15 – 15.30	167 -Fusion of Local and Global Features for Face Recognition <i>Bibi Nazmeen Boodoo-Jahangeer and Sunilduth Baichoo</i>	151 -Performance Analysis of Parallel CBAR in MapReduce Environment <i>Sayantana Singha Roy, Chandan Garai and Ranjan Dasgupta</i>	150 -Teaching Global Warming Through Blended Learning: A case study in a Private Secondary School in Mauritius <i>Teena Gomes and Shireen Panchoo</i>
15.30 – 15.45	90 -Survey of Biometric Authentication for E-assessment <i>Samuel Ojo, Tranos Zuva and Selelman Ngwira</i>	29 -Reducing Structured Big Data Benchmark Cycle Time using Query Performance Prediction Model <i>Rekha Singhal</i>	78 -Integrating Learning Analytics for Higher-Order Thinking e-Assessments <i>Sandhya Gunness and Upasana Singh</i>
15.45 – 16.00	89 -Multimodal Biometric Scheme for E-assessment <i>Samuel Ojo, Tranos Zuva and Selelman Ngwira</i>	e-Health	102 -Experiencing Game-Based Learning through Mobile Devices <i>Roopesh Sungkur and Upasana Singh</i>
		152 -Using a Location-based Mobile Application to Locate a Traditional Health Practitioner in South Africa <i>Johannes Kekana and Robert Hans</i>	
16.00 – 16.15	34 -Robust Blind Watermarking Technique for Color Images using Online Sequential Extreme Learning Machine; <i>Ankit Rajpal, Anurag Mishra and Rajni Bala</i>	178 -Proposed Model for Evaluation of mHealth Systems <i>Chel-Mari Spies</i>	159 -Confused which Educational Video to Choose? Appropriateness of Educational Programmes on YouTube Education for use by Educators <i>Perianen Appavoo, Meera Gungea, Teenah Jutton and Preetamsing Dookhun</i>
16.15 – 16.30	122 -Algorithm Performance Indexing through Parallelism; <i>Peter Manyere and Andre Nel</i>	195 -Enhancing Data Security in Open Data Kit as an mHealth Application <i>Paul Macharia, Matthew Dunbar, Betsy Sambai, Felix Abuna, Bourke Betz, Anne Njorege, David Bukusi, Peter Cherutich and Carey Farquhar</i>	
16.30 – 16.45	2 -Hardware Implementation of Ultralightweight Cryptographic Protocols; <i>Umar Mujahid, Najam Ul Islam Muhammad and Qurat Ul-Ain</i>		

Sunday, 6th December 2015 – Island Tour

***For more information, please contact the conference secretariat. Email: iccs.in@gmail.com**