

## Conference Programme

	8.00 - 9.00AM	9.00 - 10.00AM	10.00-11.00	11.00-12.00	12.00-13.20	13.20 - 14.20	14.40 - 16.00	16.00 - 16.20	16.20 - 17.40	18.00 - 20.00
<b>Day 1</b> (26/8/13)	Registration	Opening Ceremony		Refreshment & Break	TS11, TS12 and TS13	Prayer time (Zuhr) & Lunch	TS14, TS15 and TS16	Prayer time (Asr)	TS17, TS18 and TS19	Interactive Session
<b>Day 2</b> (27/8/13)	Networking	Keynote Speech I	Keynote Speech II	Refreshment & Break	TS21, TS22 and TS23	Prayer time (Zuhr) & Lunch	TS24, TS25 and TS26	Prayer time (Asr)	TS27, TS28 and TS29	Interactive Session
<b>Day 3</b> (28/8/013)	Networking	Keynote Speech III	Refreshment & Break	Tutorials I, II & III	TS31, TS32 and TS33	Prayer time (Zuhr) & Lunch	TS34, and TS35	Prayer time (Asr)	Social Activities	

### General Remarks

- Language of presentation: **English**
- Presentation time : **13 minutes**
- Presentation method: **Slide presentation**
- Upload presentation before start of session
- Fill up presenter biodata form before start of session (Biodata form will be supplied during conference)

### COLOUR CODE:

	Keynote Speeches & Tutorials
	Computing
	Communications
	Electronics, Electrical, Biomedical and Mechatronics

## Keynote Speeches

Keynote Speaker I: Professor Narayan Chandra Debnath <b>SOFTWARE ENGINEERING MODELS, METRICS AND TOOLS RESEARCH – CHALLENGES AND OPPORTUNITIES</b> Day 2 27 August 2013 09.00 – 10.00AM Chairperson: Prof. Dr. Ibrahim El-Amin
Keynote Speaker II: Dr. Fanny Klett <b>THE WAR FOR TALENT - CHALLENGES AND OPPORTUNITIES FOR ICT AND INNOVATION</b> Day 2 27 August 2013 10.00 – 11.00AM Chairperson: Prof. Dr. Mustafa Nawari
Keynote Speaker III: Prof. Dr. Hinghung Anthony Chan <b>DISTRIBUTED MOBILITY FOR FUTURE MOBILE INTERNET</b> Day 3 28 August 2013 09.00 – 10.00AM Chairperson: Dr. Bazara Barry

## Tutorials

Tutorial I: Professor Ibrahim El-Amin <b>INTRODUCTION TO POWER QUALITY</b> Day 3 28 August 2013 11.00AM – 12.00Noon Chairperson: Dr. Abderahman Karrar
Tutorial II: Dr. Hassan Hamdoun <b>INTERNET DIFFUSION, ASSOCIATED ENERGY CONSUMPTION AND WEB LITERACY</b> Day 3 28 August 2013 11.00AM – 12.00Noon Chairperson: Dr. Rania A. Mokhtar
Tutorial III: Prof. Dr. Mustafa Nawari, Yousif Hussin, and Hind Mohamed <b>PKI TECHNOLOGY: THE SECURITY INFRASTRUCTURE FOR SUDAN'S E-GOVERNMENT</b> Day 3 28 August 2013 11.00AM – 12.00Noon Dr. Amir Abdelfatah Eisa

## Paper Presentations

### Day ONE: 26 August 2013

Technical Session ICCEEE 2013 (TS 11) 12.00-13.20pm (Room I)	
<b>TECHNICAL SESSION 1A: Text and Speech Processing</b> Chairpersons: Prof. Dr. Othman O. Khalifa & Dr. Sara El-Jack	
204	<b>Semantic Web services for Nubian language</b> <i>Ahmed Yousri Salama Mohammed,</i>
105	<b>Differential Evolution Cluster-based Text Summarization Methods</b> <i>Albaraa Abuobieda, Naomie Salim, Mohammed S. Binwahlan and Ahmed H. Osman,.</i>
145	<b>Segmentation Approach for Online Arabic Handwriting</b> <i>Hozeifa A. Abd Alshafy and Mohamed A. Mustafa,</i>
181	<b>ETAOSD: Static Dictionary-Based Transformation Method for Text Compression</b> <i>Fadllemoula M. Baloul, Mohsin H. Abdullah and Elsadig A. Babikir,</i>
213	<b>Segmentation Algorithm for Arabic Handwritten Text</b> <i>Yusra Osman,</i>
238	<b>Acoustic Approach to Spoken Arabic Language Detection</b> <i>Mohammed Elfahal and Mohammed Elhafiz,</i>

Technical Session ICCEEE 2013 (TS 12) 12.00-13.20pm (Room II)	
<b>TECHNICAL SESSION 1B: Networking</b> Chairpersons: Prof. Dr. Aisha A. Hassan & Dr. Abuagla Babikir	
269	<b>Network Coding for hybrid Satellite-terrestrial Networks over non-identical Fading Channels</b> <i>M. Awais Jadoon, Zainab A.Khan, Imran Khan, Ahmad Shah and Othman O. Khalifa</i>
249	<b>Localization for Wireless Sensor Networks</b> <i>Osman M. Elfadil,</i>
8	<b>Routing Protocols in ad-hoc Networks Performance of Standardized</b> <i>Tariq Al-Ahdal and Saida Mohammad, Yemen</i>
186	<b>Multihoming Based Mobility Management Scheme in NEMO: A Qualitative and Quantitative Analysis</b> <i>Shayla Islam, Aisha H. Abdalla, Mohamed H. Habaebi, M.K. Hasan, Suhaimi Latif and Rashid Saeed,</i>
202	<b>Multicasting in Network mobility using Multicast Anchor Agent</b> <i>Abdemuizz Adam,</i>
102	<b>A Multi-Layer Network Defense System using Artificial Immune System</b> <i>Mohamed M. K. Elhaj, Mamoun M. Suliman and Hussam Hamrawi.</i>

Technical Session ICCEEE 2013 (TS 13) 12.00-13.20pm (Room III)	
<b>TECHNICAL SESSION 5B: Grid and Energy</b> Chairpersons: Prof. Dr. Ibrahim M. El-Amin and Dr. Ashraf Osman	
43	<b>A novel Control Method of Grid Connected Doubly Fed Induction Generator under Variable Wind Speed</b> <i>Zakieldeen Elhassan, Li Yang and Tang Yi.</i>
294	<b>Method of Computing Maximum Loadability using Continuation Power Flow,Case Study Sudan National Grid</b> <i>Elfadil Zakaria, Kamal Ramadan and Dalia Eltigani.</i>
215	<b>Insights into Sustainable Energy-Capacity Trends towards Bridging the Digital Divide</b> <i>Hassan Hamdoun, Solomon Mangeni and Yogesh Dwivedi</i>
28	<b>Optimization of Nuclear Energy Generation</b> <i>Dryan Marende.</i>
136	<b>Jatropha Curcas: A Viable Alternative Source of Clean Energy to Meet Sudan's Growing Energy Demand</b> <i>Hazir Farouk Abdelraheem, Andrew Lang and Mohammed Elhadi Ahmed.</i>
46	<b>Power Quality Indices :A Saudi Steel Mills Case Study</b> <i>Ibrahim Elamin, Abdullah Al-Elyani and Abdelrahman Shuaib.</i>

Technical Session ICCEEE 2013 (TS 14) 14.40 - 16.00pm (Room I)	
<b>TECHNICAL SESSION 4B: Data Mining</b> Chairpersons: Dr. Mohamed Elhafiz Mustafa & Dr. Nisreen Beshir	
160	<b>Extended Abstract: Mining Lexico-syntactic Patterns to Extract Chemical Entities with their Associated Properties</b> <i>Safaa Eltyeb and Naomie Salim,</i>
180	<b>Credit Scoring Using Data Mining Techniques</b> <i>Eiman Kambal, Izzeldin Osman, Noon Mohammed, Sara Mohammed and Methag Taha,</i>
103	<b>Modeling Customer Relationship Management using Data Mining</b> <i>Amira Kamil Ibrahim and Ajith Abraham.</i>
287	<b>Verifying Abstract Data Types: A Hybrid Approach</b> <i>Nahid Ahmed Ali,</i>
98	<b>Specifying Abstract Data Types: A Behavioral Model, An Axiomatic Representation</b> <i>Abdelrasoul Yahya.</i>
280	<b>Multi Document Summarization Based On Cross-Document Relation Using Voting Technique</b> <i>Yogan J. Kumar, Naomie Salim, Albaraa Abuobieda and Ameer Tawfik,</i>

Technical Session ICCEEE 2013 (TS 15) 14.40 - 16.00pm (Room II)	
<b>TECHNICAL SESSION 5A: Wireless Communication</b> Chairpersons: Dr. Hinghung Anthony Chan & Dr. Sami H.O. Salih	
149	<b>Performance Evaluation of DS-WCDMA</b> <i>Khalid Bilal, Ibrahim Khider and Amin Abdelnabi</i>
59	<b>Efficient Design of Dual Digital Up Converter for WCDMA and CDMA2000 Using System Generator</b> <i>Mohamed Omara</i>
245	<b>Evaluation of Gateway Placement Approaches in Wireless Mesh Network</b> <i>Awadallah Ahmed and Aisha Abdalla,</i>
115	<b>Synchronization Wireless Algorithm Based On Message Digest (Swamd) For Mobile Database</b> <i>Taqwa Ahmed, Mariam Taha and Faiza Alim,</i>
291	<b>An Analysis of Resource Sharing Scheme in Heterogeneous Wireless Campus Network</b> <i>Mosharrof H. Masud, Suhaimi A. Latif, Farhat Anwar and Md K. Alam,</i>
38	<b>Adaptive Joint Call Admission Control to Support QoS in Heterogeneous 4G Wireless Networks</b> <i>Jacqueline J. George and Nada M. Adalla.</i>

Technical Session ICCEEE 2013 (TS 16) 14.40 - 16.00pm (Room III)	
<b>TECHNICAL SESSION 5B: Biomedical (Instrumentation)</b> Chairpersons: Dr. Magdi Baker & Dr. Ashraf Osman	
182	<b>Motion Estimation in Ultrasound Image Using Dynamic Multi-Shape Search</b> <i>Alia M. A. Siddig, Razaz Kh. Yousif and Muhanned Al Anwer Awaad,</i>
152	<b>Multiple Measurements Vectors Compressed Sensing for Doppler Ultrasound Signal Reconstruction</b> <i>Sulieaman M. S. Zobly and Yasir M. Kadah,</i>
187	<b>Detecting and Tracking ASD using New Block Flow in Ultrasound</b> <i>Muhanned Al Anwer Awaad, Razaz Kh. Yousif and Alia M. A. Siddig</i>
263	<b>Comparison Between Gold Nanoparticles and Conductive Polymer Nanoparticles Used in Photothermal Therapy</b> <i>Nada Osman,</i>
282	<b>Evaluation of linear filter kernel developed from Ultrasound phantom image</b> <i>Alwaleed Abdelrahman and Omer Hamid.</i>
244	<b>Design of Digital Apodization Technique For Medical Ultrasound Imaging</b> <i>Mawia Hassan, Shaza Gaib Alla, Ilaf Sarour and Mohammed Alfadny.</i>

Technical Session ICCEEE 2013 (TS 17) 16.20 - 17.40pm (Room I)	
<b>TECHNICAL SESSION 5B: Software Engineering</b> Chairpersons: Prof. Narayan Chandra Debnath & Dr. Hisham Abushama	
74	<b>Popular Agile Approaches in Software Development: Review and Analysis</b> <i>Amani Alnimir and Hisham Abushama.</i>
118	<b>A Study of Software Process Improvement for Some Sudanese Organizations</b> <i>Arafat Abdulgader, Mohamed A. Elshaikh and Radziah Mohamed,</i>
314	<b>Upgrading Distributed Agile Development</b> <i>Aisha Hamid,</i>
240	<b>Enabling Use Case Function point on Service-oriented Architecture</b> <i>Nusiba Abdalrhman Ahmed and Abdelgaffar Hamed,</i>
214	<b>Service Discovery using Perdurant Ontology</b> <i>Afaf Mohamed and Robert Colomb.</i>
125	<b>A Validated Model for the Quality in Use of Mobile Government Systems</b> <i>Nisreen B. Osman and Izzedin M. Osman.</i>

Technical Session ICCEEE 2013 (TS 18) 16.20 - 17.40pm (Room II)	
<b>TECHNICAL SESSION 5A: Communication I (Wireless)</b> Chairpersons: Dr. S.M.A Motakabber & Dr. Sami H.O. Salih	
77	<b>Design and Test of a USB/Bluetooth/IP Self-adaptive Connector for Sensor Network Application</b> <i>Yousif Elhadi Elsideeg Ahmed, Basem Ahmed M. Hassan, Salim Omer Abdallah Alzubaidi, Yassin Mahmud M. Ibraheem and Mustafa G. Hadi Khamisi, Sudan</i>
50	<b>Energy Aware Routing Protocol for Low Energy Sensor</b> <i>Adel Gaafar.</i>
101	<b>Lightweight Inter-cluster Synchronization Scheme for Femtocell Network</b> <i>Omnia Ahmed, Rashid A.Saeed and Mohammed Kamrul Hasan.</i>
167	<b>Implementation of Adaptive Modulation for Broadband Wireless Access Networks using Cognitive Radio Approaches</b> <i>Sami Salih, Mamoun Suliman, Abbas Mohamed and Ali Al-Refai.</i>
15	<b>Multifunction Filter for The Processing of Radar Signals</b> <i>Moutaman Mirghani Daffalla.</i>
319	<b>A GPS Based Traffic Light Pre-emption Control System for Emergency Vehicles</b> <i>Abubakr Eltayeb, Halla Almubarak and Tahani Attia.</i>

Technical Session ICCEEE 2013 (TS 19) 16.20 - 17.40pm (Room III)	
<b>TECHNICAL SESSION 5B: Biomedical (UltraSonic)</b> Chairpersons: Dr. Magdi Baker & Dr. Rashidah F. Olanrewaju	
91	<b>Design of Non-Invasive Glucose Measuring Device</b> <i>Ola Abdalsalam, Al-Khanssa Osman, Roua Abd-Alhadi and Saad Alshmaa,</i>
154	<b>Detection of Volatile Compounds in Urine Using an Electronic Nose Instrument</b> <i>Thowiba Sabeel, Fauzan Che Harun and Solima Sabeel,</i>
162	<b>Heart Disease Diagnostic Graphical User Interface Using Fractal Dimension</b> <i>Jacqueline J. George and Eman Mohammed Saeed Mohammed,</i>
200	<b>Discrimination of Four Classes in Brain-Computer Interface Based on Motor Imagery</b> <i>Tasneem Mahmoud and Dr. Omer Elfarouk Hamed.</i>
207	<b>Measurement of Weight Distribution in The Foot</b> <i>Safa Abdalaziz, Shahd Tariq, Haifa Basher and Fragoon Ahmed.</i>
229	<b>Architecture and Circuit Design Balance between Integrated and Photon counting mode for X-Ray Pixel Array Detector Read-out Electronics</b> <i>Suliman Abdalla, Maha Abdelaziz and Amin Babiker.</i>

**Day TWO: 27 August 2013**

Technical Session ICCEEE 2013 (TS 21) 12.00-13.20pm (Room I)	
<b>TECHNICAL SESSION 3A: Security and Encryption</b> Chairpersons: Dr. Mohamed Fadlalla Elhag & Dr. Abuagla Babikir	
57	<b>A Hybrid Approach to Secure Transmitted Messages Using Advanced Encryption Standard (AES) and Word Shift Coding Protocol</b> <i>Abdelrahman Altigani and Bazara Barry,</i>
305	<b>Evaluating the Impact of AES Encryption Algorithm on Voice over Internet Protocol (VoIP) Systems</b> <i>Sulafa Khaled Talha and Bazara I. A. Barry,</i>
84	<b>Binary LU Encryption</b> <i>Abdelhaliem Abbas,</i>
285	<b>Developing a Security Model to Protect Websites from Cross-site Scripting Attacks</b> <i>Yousra Gad and Bazara Barry,</i>
137	<b>Measuring the Cybersecurity of Cloud Computing</b> <i>Nahla Murtada.</i>
86	<b>A Parallel Computer System for the Detection and Classification of Breast Masses</b> <i>Soha Yousuf and Sahar Mohammed.</i>

Technical Session ICCEEE 2013 (TS 22) 12.00-13.20pm (Room II)	
<b>TECHNICAL SESSION 5A: Communication II (Wireless)</b> Chairpersons: Dr. Jacqueline John George Dr. Sara Eljack	
61	<b>Sparse Channel Estimation Using Adaptive Filtering and Compressed Sampling</b> <i>Mohamed Khalifa, Abubakr Abdelhafiz and Azzedine Zerguine.</i>
85	<b>Inter-cell Interference Coordination in LTE-A HetNets: A Survey on self organizing approaches</b> <i>Mohammad Kamrul Hasan,</i>
302	<b>Impulsive Noise Mitigation in Haar DWT Based OFDM Systems</b> <i>Moaz Mahdi, Khaizuran Abdullah and Mohammad Umar Siddiqi.</i>
1	<b>An Enhanced HWMP (E-HWMP) Protocol for Multihop Vehicular Communications</b> <i>Amal Eltahir and Rashid Saeed.</i>
168	<b>A Novel Spectrum Sensing Scheduler Algorithm for Cognitive Radio Networks</b> <i>Sami Salih, Mamoun Suliman and Abbas Mohamed.</i>
321	<b>Development of a Position Detection Technique for Chipless RFID Tagged Object</b> <i>S. M. A. Motakabber, Muhammad Ibn Ibrahimy and A. H. M. Zahirul.</i>

Technical Session ICCEEE 2013 (TS 23) 12.00-13.20pm (Room III)	
<b>TECHNICAL SESSION 5B: Mechatronics</b> Chairpersons: Dr. Musaab Hassan Zaroog & Dr. Alla Eldin Awooda	
239	<b>Design and Implementation of Robotic System to Transport Disabled People</b> <i>Amal Elawad, Braa Hagadam, Rabah Hamed and Eltaher Hussein.</i>
36	<b>Carbon Nanotubes: Challenges and Opportunities</b> <i>Gehad Hamdan, Saad Suliman and Al Khawad Elfaki.</i>
165	<b>Modeling Of Electrostatically Actuated Temperature Sensor</b> <i>Ammar Atia, Moayad Mamoon Ibrahim, Omer Abd Alghar Mohamed and Musaab Hassan.</i>
42	<b>The Potential of Establishing Computer_Aided_Design (CAD) Industry in Africa: Sudan Case-Study</b> <i>Ashraf Osman, Amin Nabi and Ismail El-Azhary.</i>
320	<b>Performance Analysis of Different Techniques for Brain Computer Interfacing</b> <i>Mohammad R. Hasan, Muhammad Ibn Ibrahimy and S.M.A. Motakabber.</i>
252	<b>Navigation Algorithm for Mobile Robots using WSNs</b> <i>Osman Mudathir Elfadil.</i>

Technical Session ICCEEE 2013 (TS 24) 14.40 - 16.00pm (Room I)	
<b>TECHNICAL SESSION 1B: Pattern Recognition</b> Chairpersons: Dr. Hanan Adlan & Dr. Jacqueline John George	
53	<b>Speech Scrambling Based on Chaotic Maps and One Time Pad</b> <i>Samah M. H. Alwahbani and Eihab B. M. Bashier</i>
270	<b>Face Recognition Using Local Graph Theory (LGT)</b> <i>Eimad Abusham and Housam Basheir</i>
227	<b>On Password Strength Measurements: Password Entropy and Password Quality</b> <i>Ala E.Moktar, Azza H.Salim, Settana M.Abdullah, Mariam M.Taha and Taqwa A.Alhaj</i>
286	<b>Feature Selection and Similarity Coefficient Based Method for Email Spam Filtering</b> <i>Ali Ahmed, Ammar E. Elhadi, Hamza A. Hamza and Naser Elmisbah</i>
288	<b>An Improved Semantic Plagiarism Detection Scheme Based on Chi-squared Automatic Interaction Detection</b> <i>Ahmed Osman and Naomie Salim</i>
262	<b>A Tree-based Conceptual Matching For Plagiarism Detection</b> <i>Ahmed Osman, Naomie Salim and Ammar E. Elhadi</i>

Technical Session ICCEEE 2013 (TS 25) 14.40 - 16.00pm (Room II)	
<b>TECHNICAL SESSION 5B: RF and Antenna</b> Chairpersons: Prof. Dr. Saad O. Bashir & Dr. Sara El-Jack	
141	<b>New Fields Expressions of a Traveling Wave Circular Loop Antenna</b> <i>Sameir Ali Hamed and Saad Bashir.</i>
3	<b>Near-Fields of an Array of Circular-Loop Antennas</b> <i>Sameir Ali Hamed, Abdulwaheed Musa and Saad Bashir.</i>
33	<b>Reconfigurable Dual Band Antenna for 2.4 and 3.5GHz using Single PIN Diode</b> <i>Alaa A. Yassin and Rashid A. Saeed.</i>
35	<b>Angle of arrival estimation in smart antenna by using MUSIC method for wideband wireless communications</b> <i>Nihad A. A. Elhag, Isam M. Osman, Alaa A. Yassin and Tsneem B. Ahmed.</i>
171	<b>Optimizing the Performance of Branch-line Couplers Using Open Ended Stubs</b> <i>Siddig Gomha, Abdel Aziz T. Shalaby and El-Sayed M. El-Rabaie.</i>
281	<b>Analysis Of Aerodynamic Torques Affecting Dust Particle Orientation As Input To Microwave Cross Polarization</b> <i>Abdulwaheed Musa, Saad Bashir and Sameir Ali Hamed.</i>

Technical Session ICCEEE 2013 (TS 26) 14.40 - 16.00pm (Room III)	
<b>TECHNICAL SESSION 5A: Electrical engineering I</b> Chairpersons: Dr. Kamal Ramadan & Dr. Amir Abdelfatah Eisa	
208	<b>Abinitio Method Study of Ionic Conductor CaF2</b> <i>Nahid Osman, Gamar Mansour, Nodar Khalifa, Karlo Kuacgor Mathang and Alwaleed Adllan.</i>
148	<b>Mechanism for Charge Sharing Suppression in Single Photon Processing Pixel Array</b> <i>Suliman Abdalla, Amin Babiker and Farouq Habbani.</i>
195	<b>Improvement of Voltage Stability Index Using Distributed Generation for Northern Nigeria Sub-Transmission Region</b> <i>Haruna Musa, Bintu Usman and Sanusi Sani Adamu.</i>
257	<b>Compensation Technique and Power Quality Improvement in Multiphase Distribution System</b> <i>Shashank Srivastava and Nitin Singh.</i>
311	<b>Design and implementation of Dual axis solar tracker based on solar maps</b> <i>Sara Elagib and Nada Osman.</i>
6	<b>On the Steady-State Error Covariance Matrix of Kalman Filtering with Intermittent Observations in the Presence of Correlated Noises at the Same Time</b>

	<i>Khalid Hag El Amin and Mirghani Fath Elrahman.</i>
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Technical Session ICCEEE 2013 (TS 27) 16.20 - 17.40pm (Room I)	
<b>TECHNICAL SESSION 4A: Security and Authentication</b> Chairpersons: Dr. Prof. Mustafa Nawari & Dr. Anwar Dafa-Alla	
95	<b>A Multi-Layer Of Multi Factors Authentication Model For Online Banking Services</b> <i>Mahmoud Musa and Muna Ahmed.</i>
309	<b>Enhancement of Hardware Modular Multiplier Radix-4 Algorithm for Fast RSA Cryptosystem</b> <i>Kauther Mahdi, Sami Sharif and Ahmed Ashur,</i>
119	<b>Authenticated Key Agreement protocol for Virtual Private Network based on Certificateless Cryptography</b> <i>Abeer Eldewahi and Eihab Bashier,</i>
218	<b>Enhancement model for PKI certificate validation in the Mobile Banking</b> <i>Majda Omer and Eihab Bashir,</i>
29	<b>K-Nearest Neighbor classifier for Signature Verification System</b> <i>Ahmed Abdelrahman and Ahmed Abdallah,</i>
199	<b>Extracting knowledge from web server logs using classification technique</b> <i>Mirghani Eltahir and Anwar Dafa-Alla,</i>

Technical Session ICCEEE 2013 (TS 28) 16.20 - 17.40pm (Room II)	
<b>TECHNICAL SESSION 5A: Electrical (Systems)</b> Chairpersons: Dr. Abderahman Karrar & Dr. Amir Abdelfatah Eisa	
217	<b>The Unscented Kalman Filter Applied to Satellite Orbit Determination</b> <i>Ahmed Yassin, Elhussein Abd Elmageed, Mazin Hamad and Mahmoud Osman.</i>
295	<b>Prepaid Energy Meter Network via Power System Communication</b> <i>Kamal Ramadan, Elfadil Zakaria and Dalia Eltigani.</i>
221	<b>Mathematical Modeling of Growth Conditions and Interpretation of Phase Diagram for InxGa1-xN Epitaxial Layer</b> <i>Md. Rafiqul Islam, Md. Soyaeb Hasan and Apurba Kumar Saha.</i>
289	<b>Sudan HF Model based on University of Khartoum Ionospheric Shells and their Mathematical Derivations</b> <i>Mohamed Yousif and Sami Sharif.</i>
79	<b>Development of a Lightning Risk Assessment Software in Accordance with IEC 62305-2</b> <i>Mariana M Mounir, Aya E Hamid and Abdelrahman A Karrar.</i>

Technical Session ICCEEE 2013 (TS 29) 16.20 - 17.40pm (Room III)	
<b>TECHNICAL SESSION 3B: Computing</b> Chairpersons: Dr. Hassan Hamdoun & Dr. Anwar Dafa-Alla	
220	<b>On the Cache Performance of Information Centric Network</b> <i>Suhaidi Hassan, Zeeshan Aziz and Kashif Nisar,</i>
64	<b>Development of Computer Aided Tools for UAV Flight Control</b> <i>Abdelmoniem Idris, Abdelraheem Satti, Ahmed Imam and Moutaman Mirghani,</i>
301	<b>Cloud Computing for Rural ICT Development: Opportunities and Challenges</b> <i>Mohamed Firdhous, Osman Ghazali and Suhaidi Hassan,</i>
210	<b>Extreme Programming Applied in a Large-Scale Distributed System</b> <i>Elmuntasir A. Eltom and Eltigani Bashir,</i>
169	<b>Designing Low Cost Digital Dose Reminder System</b> <i>Mohammed Nabri, Ahmed Hassan and Tasneem Mahmoud</i>
278	<b>Solving Problems of Computer Networks' Planning Using Elastic Networks Method</b> <i>Samer Mohamed Kannan Mahmoud and Saeed A. Al-Ghamdi.</i>

**Day Three: 28 August 2013**

Technical Session ICCEEE 2013 (TS 31): 12.00-13.20pm (Room I)	
<b>TECHNICAL SESSION 5A: Artificial Systems</b> Chairpersons: Dr. Alfadil Zakaria & Dr. Mohammed Abdalla Khaleel	
315	<b>Human Skin Color Recognition (identification): Case study</b> <i>Alwaleed Abdelrahman, Hassan Yasser, Maram Mahir and Fatma Mohammed.</i>
232	<b>Enhancing Haptic Representation for 2D Objects</b> <i>Abdelkareem Bedri and William Harwin.</i>
298	<b>Oil Price Prediction Using Ensemble Machine Learning</b> <i>Lubna Gabralla, Rania Jammazi and Ajith Abraham.</i>
108	<b>Hybrid Conceptual Framework for Artificial Immune System</b> <i>Muna Elsadig Mohamed Ahmed Elsheik.</i>
16	<b>Human Posture recognition and Classification</b> <i>Othman O. Khalifa.</i>
268	<b>Quasi Fields Based S-Box Implementation</b> <i>Eltayeb Abuelyaman.</i>

Technical Session ICCEEE 2013 (TS 32) 12.00-13.20pm (Room II)	
<b>TECHNICAL SESSION 5A: Communication III (Protocols)</b> Chairpersons: Dr. Rania A. Mokhtar & Dr. Hassan Hamdoun	
258	<b>Effect of the Interior Gateway Routing Protocols in the Multiprotocol Label Switching Networks</b> <i>Sara Eljack and Suhail Ahmed.</i>
226	<b>Investigation of Nested Nemo Schemes in Mobile Network Environment</b> <i>Mohammed Babiker, Aisha H. Abdalla and Ismail El-Azhary.</i>
67	<b>A Review in Interference Analysis and Management between Hierarchical and Flat Architectures Communications</b> <i>Abeer Zakaria and Rashid A. Saeed.</i>
233	<b>Performance Enhancement of the CAN Protocol Using Reed-Solomon Codes</b> <i>Haitham Shabour, Moutaman Mirghani and Omer Sharif.</i>
47	<b>Accurate Modeling of PMSM for Differential Mode current and Differential Torque Calculation</b> <i>Ali Ahmed Adam.</i>
25	<b>Design and Analysis of Novel AFSK Modem Using Microcontrollers</b> <i>Moutaman Mirghani. .</i>

Technical Session ICCEEE 2013 (TS 33) 12.00-13.20pm (Room III)	
<b>TECHNICAL SESSION 5B: Neural Network</b> Chairpersons: Dr. Huwaida Elshoush & Dr. Abdelraheem Satti	
112	<b>MRI Brain Image Classification Using Neural Networks</b> <i>Walaa Ahmed, Ahmed Abdel-Rahma, Yusra Ibrahim and Magdi B. M. Amien.</i>
317	<b>Modeling Consumer Loan Default Prediction Using Ensemble Neural Networks</b> <i>Amira Kamil Ibrahim and Ajith Abraham.</i>
176	<b>An evaluation on Offline Signature Verification using Artificial Neural Network Approach</b> <i>Othman O. Khalifa, Md Khorshed Alam and Aisha-Hassan Abdulla.</i>
313	<b>Neural Networks Forecasting Architectures for Rainfall in the rain-fed Sectors in Sudan</b> <i>Isam Basheir, Adil Khidir and Hanan Adlan.</i>
52	<b>Driving a Novel Phasors Formula for a Digital MHO Relay Algorithm for High Voltage Transmission Line Based on Neural Networks</b> <i>Auday Mohamad and Ali Ibrahim.</i>
293	<b>Implementation of Transient Stability Assessment using Artificial Neural Networks</b> <i>Dalia Eltigani, Kamal Ramadan and Elfadil Zakaria.</i>

Technical Session ICCEEE 2013 (TS 34) 14.40 - 16.00pm (Room I)	
<b>TECHNICAL SESSION 5A: Computer Science</b> Chairpersons: Dr. Mohammed Abdalla Khaleel & Dr. Mohamed Elhafiz Mustafa	
11	<b>Benefit Cost Analysis in Appraisal and Planning Projects of Higher Learning Institutions</b> <i>Muhammad Salim Javed, Ahmad Kamil Bin Mahmood and Suziah Bt. Sulaiman</i>
156	<b>Policy Cycle Analysis to Avoid Policy Conflict in Policy-based Management Systems</b> <i>Abdelhamid Mansor, Wan M.N. Wan-Kadir and Toni Anwar.</i>
80	<b>Crossing Over Under the Root CA</b> <i>Mustafa Nawari and Asma Abdalrahman.</i>
88	<b>Reliable Attributes Selection Technique for Predicting the Performance Measures of a DSM Multiprocessor Architecture</b> <i>Rasheed Zayid and Mehmet Fatih Akay.</i>
135	<b>Smart Phones As System Integration Development Tools (Android SCL Simulation Environment as Prototype)</b> <i>Khalid Elhussein and Mohammed Elobaid.</i>
192	<b>A Method for Mapping State Machine Behavior Models In MDA Issues and Challenges</b> <i>Rihab Eltayeb, Robert Colomb and Abdelgaffar Hamed.</i>

Technical Session ICCEEE 2013 (TS 35) 14.40 - 16.00pm (Room II)	
<b>TECHNICAL SESSION 2A: Fuzzy Logic</b> Chairpersons: Dr. Abdelraheem Satti & Dr. Huwaida Elshoush	
222	<b>An Agent-based Proxy Cache Cleanup Model using Fuzzy Logic</b> <i>Hiba Nasir, Yahia Abdalla Hamad and Amir Eisa,</i>
51	<b>Adaptive Median Filter Background Subtraction Technique Using Fuzzy Logic</b> <i>Auday Mohamad and Mohammed Osman,</i>
235	<b>Intelligent System for Selecting Optimum (INST) Based on Fuzzy Logic to Develop a Courseware (ISSIDC)</b> <i>Mohamed Fadlalla Elhag,</i>
177	<b>Fuzzy Academic Advising System for on Probation Students in Colleges of Applied Sciences - Sultanate of Oman</b> <i>Fadllemoula M. Baloul and Prince Williams</i>
78	<b>Fuzzy Logic Control in Temperature Control System</b> <i>Mohammed Elnour and Waleed Kannan,</i>
82	<b>Neuro-Fuzzy Inference System based Controller in 6 DoF in Puma 560</b> <i>Zeinab Mahmoud Omer Yousif and Mergani Fathalrahman,</i>