

*The 2012 World Congress on Electronics
and Electrical Engineering, WCEEENG'12
December 23-27, 2012, Cairo, Egypt*



Date: Sunday, 23 December, 2012
Time: 11:30 – 14:00

Session: A: WCEEENG I
Room: Anni Ballroom

WCEEENG I

Chairmen:

- Prof. A. A. Mitkees

Military Technical College, Egypt

- Prof. G. Baioumy

Cairo University, Egypt

<u>2</u>	Investigation and Improvement of Self-Oscillating Electronic Ballast for Local Fluorescent Emergency Light	M. F. Hamid N. Hashim	Malaysia
<u>3</u>	Development of a Low Cost Two Axis Force Sensor	Md. Mozasser Rahman SK Khairul Hasan Tasnuva Tabashhum Choudhury	Malaysia
<u>4</u>	Thermographic Analysis of Mode of Operation of Mobile Phones	A. D. Usman W. F. Wan Ahmad T. H. Su A. Rusnani H. H. Danjuma	Nigeria Malaysia
<u>5</u>	Modeling and Simulation of Unapodized SAW Filter	M. F. Elkordy M. M. Elsherbini A. M. Gomaa	Egypt
<u>7</u>	LOS and NLOS Performance of OFDM with PCC of ICI	Sheriff Mamdouh Ziada Abdel Aziz M. Al- Bassiouni Ghada Amer Khalid Talaat	Egypt
<u>10</u>	A Comparison between Current High Frequency Transformer Models with Special Regard to	Eman O. Hassan E. A. Badran Fathi M. H. Youssef	Egypt

	Ferroresonance		
<u>15</u>	A Compact Planar UWB Monopole Antenna with Double Notches and Bluetooth Support	Hassan H. EL-Tamaly Maher M. Eltayeb Deena Abd El Hamid Salem Korany M. Ragab	Egypt
<u>16</u>	A Comparative Study for Image Fusion Techniques	Amira Nabil Zaki Nossair Adel El-Hennawy	Egypt
<u>18</u>	Design and Analysis of Ultra-Wideband Annular Slot Antenna with Embedded Metamaterial Array Structure for Intelligent Transportation Communication Systems	Yasser M. Madany	Egypt
<u>24</u>	Advanced Adaptive Antenna Techniques	G. M. A–El-Rahem Usama sayed Mohammed Hassan Ali Sayed	Egypt
<u>25</u>	Adaptive Neural Network Control of Shunt Active Filter	Gaber EL-Saady Ahmed EL-Noby Ahmed Ibrahim Hazem Hassan Ali Sayed	Egypt
<u>26</u>	Elimination of Voltage Harmonic Produced by SSSC by Using Series Active Power Filter	Gaber EL-Saady Ahmed EL-Noby Ahmed Ibrahim Hazem Hassan Ali Sayed	Egypt



Date: Sunday, 23 December, 2012
Time: 14:30 – 17:00

Session: B: WCEEENG II
Room: Anni Ballroom

WCEEENG II

Chairmen:

- Prof. A. S. A. Mohamed

Cairo University, Egypt

- Prof. A. M. Geneidy

Egyptian Armed Forces, Egypt

<u>1</u>	A Framework for Blind Medical Image Super-Resolution Using an Artificial Immune System	Osama A. Omer Mohamed Abdel-Nasser	Egypt
<u>8</u>	Performance of Adaptive Iterative Turbo Decoder (AITD) in Carrier Frequency Offset OFDM system	Tamer H. M. Soliman Esam A. Hagra Sherif S. EL-Badawy	Egypt
<u>9</u>	Effect of Relaxation Time on MHD Pulsatile Flow of Blood Through Porous Medium in an Artery under the Effect of Periodic Body Acceleration	Islam M. Eldesoky	Egypt
<u>11</u>	Satellite Image Encryption Using Neural Networks Backpropagation	I. A. Ismail Galal H. Galal-Edeen Sherif Khattab Mohamed Abd Elhamid M. El Bahtity	Egypt
<u>12</u>	Quality Analysis and Throughput Improvement of VANETS in Network Communication System	Pragnesh N. Shah Vijaylaxmi S. Bhat	India
<u>13</u>	The Benefits of Three Dimensional Transistor in	Mohammed K. A. Kaabar	UAE

	the Microelectronics Area		
<u>14</u>	Simulation The Switching Behavior For Ionic Memory Based Copper Sulfide	Faris Hassan Taha Khalid Khaleel Mohammad	Iraq
<u>17</u>	Fabrication of Superconducting Niobium Nitride Films on Silicon	Y. Ufuktepe A. Farha S. Kimura T. Hajiri K. Imura F. Karadag H. Elsayed-Ali	Turkey USA Egypt Japan
<u>20</u>	Eye Computer Interface (ECI) and Human Machine Interface Applications to Help Handicapped Persons	A. S. El-Sherbeny S. Badawy	Egypt
<u>21</u>	Compressed Sensing and Partial Fourier MRI Image Reconstruction	Abdul-Rahman M. Sharaf Amr Abdul-Rahman Sharawy Samir Mohamed Youssef Badawy	Egypt
<u>22</u>	Human Brain signal Analysis: Chiari Malformation Diagnosis by Electroencephalograph	S. Badawy M. A. Fkirin N. A. Aziz	Egypt
<u>23</u>	Diagnosis of Fetal Heart Congenital Anomalies by Ultrasound Echocardiography Image Segmentation after Denoising in Curvelet Transform Domain	Mohammed Tarek GadAllah Samir Badawy	Egypt



Date: *Tuesday, 25 December, 2012*
Time: *08:00 – 11:00*

Session: *C: WCSIT I*
Room: *Cleopatra*

WCSIT I

Chairmen:

- Prof. H. Harb

Al-Azhar University, Egypt

- Prof. S. A. Gawish

Modern Academy, Maadi, Egypt

<u>3</u>	Underground Cable Fault Detection Using Robot	Jery Althaf Muhammad Imthiaz Rejith Raj	India
<u>4</u>	Protein Structure Comparison Based on Relative Orientation of Secondary Structure Elements	Ahmed fadel	Egypt
<u>5</u>	Survey: Deployment and Localization Techniques of Wireless Sensor Network	Fathy Ahmed El-Sayed Aamer Seham Moawoud Aly Ebrahim	Egypt
<u>6</u>	Base Conversion – A New Dimension	Saurabh rawat Anushree Sah	India
<u>7</u>	Comparative Analysis Study of E-Learning and Traditional Learning in Technical Institution	Bhavna Bajpai	India
<u>8</u>	Taxonomy of Target Tracking of Wireless Sensor Network	Fathy Ahmed El-Sayed Aamer Seham Moawoud Aly Ebrahim	Egypt
<u>9</u>	Sensor Selection based Technique for Cooperative MIMO in WSNs	Sara Magdy Rawya Rizk Fayez W. Zaki	Egypt
<u>10</u>	A New Hybrid Model for Automatic Text Classification	Mahmoud Elmarhoumy Fuji Ren	Japan
<u>11</u>	Modelling Critical Success	Fawzy Soliman	Australia

	Factors for Cloud Systems Implementation in an Innovative Firms		
<u>13</u>	Business Excellence and Innovation: Are the Two Competing or Overlapping Cultures?	Fawzy Soliman	Australia
<u>15</u>	Prediction of Abdominal Aortic Aneurysms in Computed Tomography Angiography	Tuan D. Pham Jonathan Golledge	Japan Australia
<u>18</u>	New Text Steganography Technique By Using Mixed-Case Font	Abdelmgeid Amin Ali Al-Hussien Seddik Saad	Egypt
<u>19</u>	A Static Code Analysis Tool for Security Vulnerabilities in PHP 5 Scripts	M. Nashaat M. Ibrahim Habib Rabab F. Abdel Kader H. Mahdi	Egypt
<u>25</u>	Customers' Attitude Towards Location Based Mobile Advertising in Egypt	Basant Said Rasha Abd El Aziz	Egypt UK



Date: *Tuesday, 25 December, 2012*
Time: *11:30 – 12:30*

Session: *WS*
Room: *Cleopatra*

WorkShop

SpriteML - A Synthetic Image and Sprite Generation Tool

Authors:

*Richard Krueger, Michael Joseph Harward, and
Suliman Hawamdeh*

*University of North Texas
Sklinux
USA*

Abstract:

Sprites and synthetic imaging are useful technologies for web application development. A sprite is a collection of images grouped into a single image. A synthetic image is a procedurally defined image of composited image elements, filters, shapes, gradients, and text. With the widespread browser support for transparent 32 bit PNGs, sprites are rapidly becoming a requirement for rich media design and dynamic websites. SpriteML is an XML markup language used to procedurally define images, animations, and sprites. The SpriteML processor is command line driven, easy to understand, and easy to use.

SpriteML is open source under the GNU General Purpose License 3.0 and is freely available for download. In this paper, we present a high level overview of the SpriteML system, its benefits, and how it fits within a web development workflow.



Date: Tuesday, 25 December, 2012

Session: D: WCMS

Time: 12:30 – 14:00

Room: Cleopatra

WCMS

Chairmen:

- Prof. S. K. Ashour

ISSR, Cairo University, Egypt

- Prof. A. F. Atteia

ISSR, Cairo University, Egypt

<u>1</u>	Gas District Cooling Load Demand Modelling Using Exponential Smoothing	Muhamad Fahmi Mohd Yusoff Zuhairi Baharudin Mohd Fatimie Irzaq Khamis	Malaysia
<u>2</u>	Probabilistic Periodic Review $\langle Q_m, N \rangle$ Inventory Model with Varying Mixture Shortage for Crisp and Fuzzy Cost Under a Restriction	Fergany H. A. Hassanein W. A. Hollah O. M.	Egypt
<u>3</u>	Modified Newton's Methods with Eighth-order Convergence and Multiple Roots	Husnia Mohamed Eldanfour	Libya.
<u>4</u>	A Stability Indicating RP-HPLC Method for the Determination of Troxipide in Bulk and Commercial Formulation	Monica Gupta Vandana Mallah	India
<u>5</u>	Generalization of the Inversion Free Variant of the Fixed Point Iteration Method to Solve the Equation $X + A \cdot X^{-1} \cdot A = I$	Sana'a A. Zarea Salah M. El-Sayed Azhar A. Al-Eidan	KSA Egypt

<u>6</u>	Financial Performance of Conventional Bank in Malaysia During and After Economic Crisis	Norhidayah A. Kadir Nur Lina Abdullah Nurzalina Harun Aidatullaini Jaffar	Malaysia
<u>7</u>	Benchmarking of Job Satisfaction Levels of Teachers Working in Private and Public Sectors	Nurdan Çolako lu Hasan Odaba 1	Turkey
<u>8</u>	An Efficient Method of Incorporating Auxiliary Information in Group Sequential Designs	A. Hussein H. A. Muttlak E. Al-Sawi O. Ozturk	Canada KSA USA
<u>9</u>	An Introduction to the Theory and Applications of WAVELET Transforms	Doris Fakeh Nakhla (Student)	USA



Date: *Tuesday, 25 December, 2012*
Time: *14:30 – 17:00*

Session: *E: WCSIT II*
Room: *Cleopatra*

WCSIT II

Chairmen:

- Prof. F. Amer

Cairo University, Egypt

- Prof. G. Darwish

Cairo University, Egypt

<u>1</u>	Design and Implementation of USB Host Controller	Channamallikarjuna Mattihalli	Ethiopia
<u>2</u>	Key Technologies Research For Oil & Gas Exploration and Development Cloud Computing System	Chen Haixiong Jiang Duoyuan	China
<u>14</u>	HPRDG: A Scalable Framework Hypercube-P2P-based for Resource Discovery in Computational Grid	Hesham A. Ali Mohammed A. Ahmed	Egypt
<u>16</u>	Hybridizing Ant Colony Optimization with Firefly Algorithm for Unconstrained Optimization Problems	Ahmed Ahmed El-Sawy Elsayed M. Zaki R. M. Rizk-Allah	Egypt
<u>17</u>	Evaluation of an Information Fusion Models to Improve the Segmentation of Medical Images	Lamiche Chaabane Moussaoui Abdelouahab	Algeria
<u>20</u>	Multi Objective Optimization of the Power Consumption and the Throughput of a Natural Gas Pipeline	A. Chebouba	Algeria
<u>21</u>	Evaluation of a Traditional Search Engine against a Semantic Search Engine using User Effort Measurements	Amira Ibrahim AbdEl-atey Sherif El-etriby Arabi E. kishk	Egypt
<u>22</u>	Fast Longest Common	Lamiaa Fathi Hussein	Egypt

	Subsequences for Bioinformatics Dynamic Programming	Mohammed Ossman Arabi E. kishk	
<u>23</u>	High Capacity Steganography System using Decolorization	Noura A. Semary Hatem Abdul-Kader	Egypt
<u>24</u>	The Opportunistic Scheduling for Mobile WiMAX Systems	Ghada Sandoub Rawya Rizk Fayez W. Zaki	Egypt
<u>26</u>	Dominance-based Rough Set Approach in Business Intelligence	S. M. Aboelnaga H. M. Abdalkader R. Hussein	Egypt
<u>27</u>	Improving Training Programs Utilizing Concept Maps	Rania Elsayed Ibrahim Ahmed Sharaf Eldin Alaa H. ElNahry Adel Elsayed	Egypt UK
<u>28</u>	The Software Design Quality Assessment of Design Enhancements	Sahar Reda Ragab Hany H.Ammar	Egypt USA



Date: *Thursday, 27 December, 2012*
Time: *08:00 – 11:00*

Session: *F: WCPEE I*
Room: *Cleopatra*

WCPEE I

Chairmen:

- Prof. A. B. Kotb

Al-Azhar University, Egypt

- Prof. A. F. Abd-El-Gawad

Zagazig University, Egypt

<u>1</u>	Multi-Objective GA Based PID Controller for Load Frequency Control in Power Systems	M. A. Tammam M. A. S. Aboeela M. A. Moustafa A. E. A. Seif	Egypt
<u>4</u>	Impact of Distributed Generation on Voltage Optimization in the Distribution Network	R. Diabi	Algeria
<u>5</u>	Reduction of the Energy Peak Demand in Buildings by PCMs	El Hadi Bouguerra	Algeria
<u>9</u>	Performance of DFIG Variable Speed Wind Turbines under Grid Fault Conditions	Hassan H. EL-Tamaly Hamdy M. Sultan M. Azzam	Egypt
<u>10</u>	Study on the Key Technology of Intelligent Transformer	Ruan Ling Sun Hao Xie Qi-jia	China
<u>12</u>	A Method for the Oil Chromatographic On-line Data Reconciliation Based on GSO and SVM	Ruan Ling Xie Qi-jia Yan Xiao-hu Nie De-xin Lu Wen-hua Zhang Hai-long	China
<u>17</u>	Analysis of Optimum Performance of Standalone Self-Excited Induction Generators used in	M. E. A. Farrag	UK

	Distributed Generation		
<u>18</u>	Thermal Modelling and Analysis of Storage Systems	Mohammed I. Alghamdi	KSA
<u>19</u>	Determining the Features of Composite Small Wind Turbine Blade Micro-Structures Following Structural Testing up to Failure	. Mitrovi N. Petrovi D. Bekri A. Bengin V. Dragovi	Serbia
<u>26</u>	Effect of Operating and Geometric Parameters on Hydrogen Production from an Alkali Electrolyzer	M. Fatouh M. H. Shedid S. Elshokary	Egypt
<u>30</u>	Waste Heat Driven Vapor Jet Refrigeration System used for Air Conditioning Applications	M. Abd El Monem E. Elgendy M. Fatouh	Egypt



Date: Thursday, 27 December, 2012
Time: 11:30 – 14:00

Session: G: WCPEE II
Room: Cleopatra

WCPEE II

Chairmen:

- Prof. F. F. Faragalla

Ministry of Electricity and Energy, Egypt

- Prof. F. M. Bendary

Benha University, Egypt

<u>2</u>	Sources and Mitigation of Harmonics in Industrial Electrical Power Systems: - State of the Art	A. Y. Abdelaziz S. F. Mekhamer Sherif M. Ismael	Egypt
<u>16</u>	Thermal Modeling of Cylindrical LiFePO ₄ Battery	M. Shadman Rad D. Danilov M. Baghalha M. Kazemeini P. H. L. Notten	Netherlands Iran
<u>20</u>	Enhancement of Power System Transient Stability using Resistive Superconducting Fault Current Limiter	Mohamed M. Aly Mahmoud A. Gaafar	Egypt
<u>21</u>	Prospect of Iran Natural Gas Export Projects	HEDAYAT OMIDVAR	Iran
<u>23</u>	Design Model of Damaged Steel Pipes for Oil and Gas Industry using Composite Materials. Part I: Modeling	Zamzam A. Alshrif	Libya
<u>27</u>	Enhancement of Power System Transient Stability using Inductive Superconducting Fault Current Limiter with YBCO and Bi-2212	Mohamed M. Aly Emad A. Mohamed	Egypt

<u>28</u>	Effect of the Forest Edge on the Power of Wind Turbine	B. Shannak	Jordan Germany
<u>29</u>	Capacity and Location Effects of Wind Turbine Energy Systems on Power Systems Stability	Sayed M. Said Mohamed M. Aly Mamdouh Abdel-Akher	Egypt
<u>32</u>	Determination of the Optimum Charge Rate for a Lithium-ion Cell using COMSOL Live Link for Matlab Toolbox	R. B. K. Parambu C. Zhou M. E. Farrag	UK
<u>33</u>	Enhancement of Multi-machine Power System Transient Stability using Superconducting Fault Current Limiters with YBCO and Bi-2212	Mohamed M. Aly Emad A. Mohamed	Egypt
<u>34</u>	Recognition of Power Quality Events using Artificial Neural Networks	Amany Hamdy Almoataz Y. Abdelaziz Mohamed Abd El-Latif Badr	Egypt



Date: Thursday, 27 December, 2012
Time: 14:30 – 17:00

Session: H: WCPEE III
Room: Cleopatra

WCPEE III

Chairmen:

- Prof. A. Y. Abd-El-Aziz

Ain-Shams University, Egypt

- Prof. M. A. M. Hassan

Cairo University, Egypt

<u>3</u>	Reliability Evaluation of Composite System with Aging Failure	Tanay Lakshman	India
<u>6</u>	Regenerative Braking: A Good Source of Green Energy	Madan Singh	India
<u>7</u>	Optimal Sizing and Economic Analysis of Stand-Alone Photovoltaic System	Rania Gamal Mohamed Doaa khalil Ibrahim Mohamed Mamdouh Abdel Aziz Hassan H. Rakha	Egypt
<u>8</u>	Green Energy in Metropolitan Transport	Madan Singh	India
<u>13</u>	Optimal Design of Resistive Superconducting Fault Current Limiter Applied to Electric Power Systems during and after Interruption of Fault Current	Mohamed M. Aly Mahmoud A. Gaafar	Egypt
<u>22</u>	Design and Performance Testing of an Improved Biomass Stove	PRANAB BISWAS BARASHA CHATTERJEE	India
<u>24</u>	Assessing Performance of	Mohamed Ebeed	Egypt

	Crowbar Protections with The DFIG under Grid Fault	Omar NourEldeen A. A. Ebrahim	
<u>25</u>	Nano-Batteries Technology Application	A. A. Heggo	Egypt
<u>31</u>	An Entropy Approach to Wireless Power- Transmissions	Salama Abdelhady	Egypt
<u>35</u>	Simulated Annealing Modeling and Analog MPPT Simulation for Standalone Photovoltaic Arrays	G. El-Saady El-Nobi A. Ibrahim Mohamed EL- Hendawi	Egypt