

2013 10th International Conference on High Capacity Optical Networks and Enabling Technologies

(HONET-CNS 2013)

**Magosa, Cyprus
11-13 December 2013**



**IEEE Catalog Number: CFP1305B-POD
ISBN: 978-1-4799-2570-4**

Table of Contents

01	A New Hybrid Fuzzy-Decomposed Full Capacity Stego-System""38 <i>Mazhar Tayel, Hamed Sh Zied and Alaa El-Din Sayed Hafez</i>
02	Minimal Distortion Steganography Using Well-Defined Functions""43 <i>Mehran Iranpour and Farnaz Farokhian</i>
03	A Novel architecture for QoS provision on VANET""47 <i>Mouna Garai and Nouredine Boudriga</i>
04	Benefits of using Heralded Single Photon Source for Fiber-Based Quantum Key Distribution BB84""54 <i>Amor Gueddana, Moez Attia and Rihab Chatta</i>
05	Emergent of DDoS Resistant Augmented Split Architecture""59 <i>Dr. Bharat Rawal, Dr. Harolad Ramcharan and Anthony Tsetse</i>
06	A Simple Matlab/SIMULINK Simulation for PV Modules Based on One-Diode Model""66 <i>Moein Jazayeri, Sener Uysal and Kian Jazayeri</i>
07	A Study of the Surface Plasmon Enhancement of Thin Film Si Solar Cell""73 <i>Mousa Hussein, Razan Najm and Ahmad Ayesh</i>
08	A Study of the Influence of External Optical Injection on a Semiconductor Laser Diode""78 <i>Jala El-Azab and Mohamed Hemdan</i>
09	Assessing the impact of Multi-busbars on metallization cost and efficiency of solar cells with digital inkjet-printed gridlines""83 <i>Nian Chen, Ahrar Chowdhury, Estiak Ahmad, Veysel Unsur and Abasifreke Ebong</i>
10	Developing the Next Generation Low-Cost Inks for high efficiency Multi Crystalline Silicon Solar Cells""89 <i>Abasifreke Ebong, Dana Hankey and Le Yang</i>
11	Photovoltaic Therapy: The Application of Nanoscopic Photovoltaic Devices to Transport Chemotherapeutic Drugs""95 <i>Jayanth Batchu and Abasifreke Ebong</i>
12	Controlling thermal uniformity among LED chips assembly packages for high-power solid state lighting""9; <i>Nicolas Kudsieh, Muhammad Khizar and M. Yasin Akhtar Raja</i>
13	Development of a Laser Induced Breakdown Sensor for Detection of Carcinogenic Chemicals in Cosmetic products""; 7 <i>Mohammed Ashraf Gondal, Yasin W. Maganda, Mohamed Dastageer, Fida F. Al-Adel and Akhtar A Naqvi</i>
14	Applications and synthesis of zinc oxide: an emerging wide bandgap material""; ; <i>Babar Hussain, M. Yasin Raja, Na Lu and Ian Ferguson</i>
15	Investigation of periodontal affected due to smoking using Laser Induce Breakdown Spectroscopy""; 7 <i>Mohamed Nasr, Mohammad Ashraf Gondal and Sami Shafik</i>
16	Role of Social Networking in Patient Monitoring and e-Healthcare""; ; <i>Shafat Ahmed and M. Yasin Akhtar Raja</i>
17	Blood Vessels Detection and Segmentation in Retina using Gabor Filters""327 <i>Farnaz Farokhian and Hassan Demirel</i>
18	TrafficModeler Extensions. A case for rapid VANET simulation using, OMNET++, SUMO, and VEINS""332 <i>Wilmer Arellano and Imad Mahgoub</i>
19	Big Data Analysis Platform Development with Domain Specific Language for Telecom Industries""339

	<i>Cuneyt Senbalci, Serkan Altuntaş, Zeki Bozkus and Taner Arsan</i>
<u>20</u>	An Android Based Home Automation System""344 <i>Alper Gurek, Caner Gur, Cagri Gurakin, Senem Kumova Metin and Ilker Korkmaz</i>
<u>21</u>	Establishing Private Social Media Networking Platform for Socio-political Organizations""349 <i>Mubbashar Manshad Satti and Mohammad Manshad Satti</i>
<u>22</u>	Parallel Lossless Compression of Color-mapped Images""354 <i>Basar Koc, Ziya Arnavut and Huseyin Kocak</i>
<u>23</u>	Brain Computer Interface for Interactive and Intelligent Image Search and Retrieval""359 <i>Shitij Kumar and Ferat Sahin</i>
<u>24</u>	Constant False Alarm Rate Anomaly-Based Approach for Network Intrusion Detection""364 <i>Rayan Alshaalan, Basil Assadhan, Jalal Al-Muhtadi, Hesham Bin-Abbas, Fathi Sayed and Saleh Alshebeili</i>
<u>25</u>	Synthesis and Characterization of Copper Oxides Nanoparticles Via Pulsed Laser Ablation in liquids""369 <i>Mohammed Ashraf Gondal, Talal Farhan Qahtan, Mohamed A Dastageer and Tawfik A Saleh</i>
<u>26</u>	Photo-induced In Situ Switching of Surface Wettability of Titania Films Under Air and Oil Environment""374 <i>Mohammed Ashraf Gondal, Muhammad Subkhi Sadullah, Gareth Mckinley, K.K Varanasi and Panchanathan Divya</i>
<u>27</u>	Integrated Nanoplasmonic Splitter""378 <i>Rami Wahsheh, Zhaolin Lu and Mustafa Abushagur</i>
<u>28</u>	High Speed Data Transmission over a Visible Light Link Employing Smartphones Xenon Flashlight as a Replacement of Magnetic Cards""37: <i>Mariam Galal, Ahmed Abdelaziz and Heba A. Fayed</i>
<u>29</u>	LIP Characteristics of Nanostructured ZnO Thin Films""384 <i>Terfah M. Al-Inad, Walid Tawfik, W Aslam Farooq and Abdullah S Aldwayyan</i>
<u>30</u>	Resource Reservation Schemes for Synchronous Traffic in Cooperative Clustered OBS Networks""388 <i>Ihsan Ul Haq, Henrique Salgado and Jorge Castro</i>
<u>31</u>	Effect of Optimized Alternate Polarization on performance of N X 60-Gb/s WDM Transmission System""393 <i>Richa Bhatia, Ajay K Sharma and Jyoti Saxena</i>
<u>32</u>	Cost Effective Solution for Surveillance of Metro Ring Optical Networks""398 <i>Habib Fathallah</i>
<u>33</u>	Performance Analysis of iSCSI with Data Center Bridging Suite of Protocols""3: 2 <i>Khaled Harfoush</i>
<u>34</u>	Performance analysis of known unipolar optical OFDM techniques in PON IM/DD fiber link""3: 7 <i>Sanya Max Fréjus, Leopold Djogbe, Antoine Vianou and Christelle Aupetit-Berthelemot</i>
<u>35</u>	On Latency-aware Self-aligning Cloud Storage""3; 2 <i>Syed Ali Haider, Khurram Kazi, S M H Zaidi and M. Yasin Akhtar Raja</i>
<u>36</u>	Securing SCADA Systems with Open Source Software ""3; 6 <i>Athar Mahboob and Junaid Zubairi</i>
<u>37</u>	Increase of Data Bit Rate of Optical Chaotic Multiplexing Using External Optical Injection""422 <i>Jala El-Azab, Amr El-Khodary and Salah Hassab-Elnaby</i>
<u>38</u>	All-Optical Multi-Wavelength Virtual Memory Based Switching Node""427 <i>Selma Batti, Noureddine Boudriga and Mourad Zghal</i>
<u>39</u>	Concurrent Multipath Transfer in Fi-Wi Access Networks""432 <i>S. M. Ahsan Kazmi and S.M. Hassan Zaidi</i>

<u>40</u>	Layers Ordered Multiple Feedback Successive Interference Cancellation in MU-MIMO""437 <i>Abid Ali Minhas, Kashif Shabir and Abdulaziz Al Mazyad</i>
<u>41</u>	Converged Optical Wireless Network Featuring Active and Dynamic Routing of Radio Signals""442 <i>Elizabeth Bahta, Oluyinka Otesile and Mehmet Toygan</i>
<u>42</u>	Realtime Traffic Congestion and Deadlock Avoidance for vehicular ad-hoc networks""446 <i>Khaled Harfoush</i>
<u>43</u>	Hybridized Fuzzy Cellular Automata Thresholding Algorithm for Edge Detection Optimized by PSO""44; <i>Ugur Sahin and Ferat Sahin</i>