

# **2019 International Conference on Information Science and Communication Technology (ICISCT 2019)**

**Karachi, Pakistan  
9 – 10 March 2019**



**IEEE Catalog Number: CFP19U11-POD  
ISBN: 978-1-7281-0448-5**

**Copyright © 2019 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP19U11-POD
ISBN (Print-On-Demand):	978-1-7281-0448-5
ISBN (Online):	978-1-7281-0447-8

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# TABLE OF CONTENTS

<b>COST EFFECTIVE MONITORING SYSTEM FOR THE EARLY DETECTION OF ISCHEMIC STROKE IN SMOKER .....</b>	<b>1</b>
<i>Mehwish Faiz ; Syeda Aimen Naseem ; Maheen Murad ; Rabia Khalid</i>	
<b>LOW COMPLEXITY OBJECT DETECTION WITH BACKGROUND SUBTRACTION FOR INTELLIGENT REMOTE MONITORING .....</b>	<b>6</b>
<i>Sajid Nazir ; Hassan Hamdoun ; Mohammad Kaleem</i>	
<b>RELIABLE IMAGE NOTIFICATIONS FOR SMART HOME SECURITY WITH MQTT .....</b>	<b>12</b>
<i>Sajid Nazir ; Muhammad Kaleem</i>	
<b>ELECTRONIC NOSE (E-NOSE) .....</b>	<b>17</b>
<i>Syed Haris Bin Hafeez ; Huma Hasan Rizvi ; Riyam Sarfaraz ; Muhammad Umer ; Muhammad Aali Siddiqui</i>	
<b>AN EMPIRICAL STUDY ON PRACTICE OF REQUIREMENT ENGINEERING ACTIVITIES IN SOFTWARE INDUSTRIES IN PAKISTAN INDUSTRY .....</b>	<b>23</b>
<i>Shahid Saleem ; Sehrish Munawar Cheema ; Rabia Zafar ; Syed Younas Ali ; Syed Zeeshan Hussain Shah</i>	
<b>A SURVEY ON TECHNOLOGY SUPPORTED COLLABORATIVE LEARNING TOOLS AND TECHNIQUES IN TEACHER EDUCATION .....</b>	<b>29</b>
<i>Nisar Ahmed Dahri ; Muhammad Saleem Vighio ; Mir Hassan Dahri</i>	
<b>A SURVEY ON EMERGING INTEGRATION OF CLOUD COMPUTING AND INTERNET OF THINGS .....</b>	<b>38</b>
<i>Sana Qabil ; Urooj Waheed ; Samia Masood Awan ; Yusra Mansoor ; Muhammad Ahsan Khan</i>	
<b>FIRE DETECTION SYSTEM USING RASPBERRY PI .....</b>	<b>44</b>
<i>Muhammad Noman Aqeel Khan ; Talha Tanveer ; Kiran Khurshid ; Hassan Zaki ; Syed Sajjad Imam Zaidi</i>	
<b>CLOUD BASED FYP SYSTEM .....</b>	<b>50</b>
<i>Komal Shabaz ; Shaikh Muhammad Hamza ; Syed Waqas Haider ; Adil Iqbal Soomro ; Muhammad Naseem</i>	
<b>NFA BASED FORMAL MODELING OF SMART PARKING SYSTEM USING TLA+ .....</b>	<b>55</b>
<i>Saba Latif ; Aniqah Rehman ; Nazir Ahmad Zafar</i>	
<b>COLLABORATION OF VIRTUAL REALITY IN OUR PROFESSIONAL LIFE .....</b>	<b>61</b>
<i>Kiran Muhammad Saleem ; Maria Iqbal ; Hadia Saadi ; Arooba Fatima ; Rabia Noor Enam</i>	
<b>TALEM (THE ADVANCED LEARNING AND EDUCATION MANAGEMENT) SYSTEM WITH OBE (OUTCOME-BASED EDUCATION) .....</b>	<b>65</b>
<i>Tauseef Mubeen ; Syed Khawar Hussain ; Fizza Aqeel</i>	
<b>COMMUNITY ALGORITHM TOOL FOR EDUCATIONAL DOMAIN (CATED) .....</b>	<b>70</b>
<i>Muhammad Shahab Siddiqui ; Rafia Hareem Khan ; Sariya Mariyam</i>	
<b>A COMPARATIVE STUDY OF SIMILARITY AND CENTRALITY MEASURES FOR FRIENDS RECOMMENDATION .....</b>	<b>73</b>
<i>Maria Rahim ; Afshan Ejaz ; Quratulain Rajput ; Shakeel A. Khoja</i>	
<b>INVESTIGATION OF A BRAIN CANCER WITH INTERFACING OF 3-DIMENSIONAL IMAGE PROCESSING .....</b>	<b>81</b>
<i>Soobia Saeed ; Afnizanfaizal Bin Abdullah</i>	
<b>ORCHESTRATING HETEROGENEOUS COMMUNITIES USING MIDDLEWARE APPROACH .....</b>	<b>86</b>
<i>Sadia Mughal ; Fahad Razaque ; Muhammad Raheel Hassan ; Mukesh Malani</i>	
<b>OBJECT RECOGNITION FOR DENTAL INSTRUMENTS USING SSD-MOBILENET .....</b>	<b>96</b>
<i>Hashir Ali ; Mahrukh Khurshheed ; Syeda Kulsoom Fatima ; Syed Muhammad Shuja ; Shaheena Noor</i>	
<b>VALIDATION OF HERTZ THEORY IN ORDER TO INCREASE THE EFFICIENCY OF GEAR ELEMENT (PLASTIC AND FIBER) .....</b>	<b>102</b>
<i>Atif Saeed ; Muhammad Siddiq ; Syed Hassan Mustafa ; Usama Jawed ; Labeeq Shahid</i>	
<b>FACIAL RECOGNITION USING CONVOLUTIONAL NEURAL NETWORKS AND IMPLEMENTATION ON SMART GLASSES .....</b>	<b>107</b>
<i>Suleman Khan ; M. Hammad Javed ; Ehtasham Ahmed ; Syed A A Shah ; Syed Umaid Ali</i>	
<b>A COMPARATIVE STUDY OF RURAL NETWORKING SOLUTIONS FOR GLOBAL INTERNET ACCESS .....</b>	<b>113</b>
<i>Mohsin Khalil ; Zaheer Shamsi ; Akmal Shabbir ; Abdul Samad</i>	
<b>SIMULATION BASED VEHICLE TO VEHICLE AND BASE STATION COMMUNICATION .....</b>	<b>118</b>
<i>Rashid Ali ; Dil Nawaz Hakro ; M. Rizwan Tanweer ; Amjad Ali Kamboh</i>	
<b>ENSEMBLE OF DEEP BELIEF NETWORK AND BAYESIAN ADAPTIVE AGGREGATION FOR REGRESSION .....</b>	<b>124</b>
<i>Saima Hassan ; Mojtaba Ahmadih Khanesar ; Mohammad Tariq Jan ; Wali Khan Mashwani</i>	

<b>SECOND CHANCE PAGE REPLACEMENT ALGORITHM WITH OPTIMAL (SCAO)</b> .....	130
<i>Kiran Muhammad Saleem ; Maria Iqbal ; Hadia Saadi ; Farheen Qazi ; Dur-E-Shawar Agha</i>	
<b>VIRTUAL TOURISM USING SAMSUNG GEAR VR HEADSET</b> .....	135
<i>Mahnoor Qadri ; M. Shah Hussain ; Shafaq Jawed ; Syed Atir Iftikhar</i>	
<b>EFFICIENT ROUND ROBIN ALGORITHM (ERRA) USING THE AVERAGE BURST TIME</b> .....	145
<i>Masroor Aijaz ; Ramsha Tariq ; Maheen Ghori ; Syeda Wasma Rizvi ; Engr. Farheen Qazi</i>	
<b>ADOPTION OF VR INFLUENCING AI ON 3D OBJECTS</b> .....	150
<i>Ghulam Yazdani ; Farheen Qazi ; Sadiq Ali Khan</i>	
<b>ANALYSIS OF SWIPT BASED RELAYING NETWORK</b> .....	155
<i>Aamir Ali ; Asim Ur Rehman Khan ; Haider Mehdi ; Zakir Hussain</i>	
<b>WIDE BAND GAP THERMOSET RENEWABLE POLYMER GRAPHITE (TPG) COMPOSITES</b> .....	161
<i>Nur Munirah Abdullah ; Anika Zafiah M. Rus ; M. F. L. Abdullah</i>	
<b>THE MECHANICAL RESPONSES IN SINGLE CANTILEVER TEST OF DYNAMIC MECHANICAL ANALYSIS FOR HIGH DENSITY POLYETHYLENE BLENDED WITH BIOPOLYMER</b> .....	167
<i>Nurulsaidatulsyida Binti Sulong ; Anika Zafiah Mohd Rus ; Nurul Syamimi M. Salim</i>	
<b>DESIGN OF EXPERIMENT FOR SOUND ABSORPTION MATERIALS OF MICROPOROUS POLYMER</b> .....	172
<i>Hanani Abdul Wahab ; Anika Zafiah M. Rus ; M. F. L. Abdullah ; Nur Munirah Abdullah</i>	
<b>HYBRID AUTOMATED TEST GENERATION TOOL (HATG)</b> .....	179
<i>Huzefa Fakhruddin ; Khurram Nawaz Kiani</i>	
<b>EVALUATION ON DYNAMIC MECHANICAL PROPERTY OF POLYURETHANE GRAPHITE THIN FILMS COMPOSITES</b> .....	185
<i>M. Saddam Kamarudin ; Anika Zafiah M. Rus ; M. F. L. Abdullah</i>	
<b>SIMULATION OF MONORAIL SUSPENSION SYSTEM MODEL UNDER DIFFERENT DRIVING SPEEDS</b> .....	191
<i>Wafi A. Mabrouk ; M. F. L. Abdullah ; B Das</i>	
<b>MODELING MIDDLEWARE PLATFORM FOR SUPPORTING ACTIVE COMMUNICATION BETWEEN IOT DEVICES</b> .....	196
<i>Marwan Najm Fakhri ; Abdullah Khairun Nidzam Bin Ramli M. F. L. ; Khaldoon Anmar Omar ; Abdullah Ali Qasim ; Hassan Muwafaq Gheni</i>	
<b>DATA RATE AND BER ANALYSIS FOR OPTICAL ATTOCELLS CONFIGURATION MODEL IN VISIBLE LIGHT COMMUNICATION</b> .....	203
<i>M. S. M. Gismalla ; M. F. L. Abdullah ; Wafi A. Mabrouk ; B Das ; Mussaab. I. Niass</i>	
<b>VISIBLE LIGHT COMMUNICATION THE NEXT FUTURE GENERATION SYSTEM</b> .....	209
<i>Abdullah Ali Qasim ; M. F. L. Abdullah ; R. Talib ; Hassan Muwafaq Gheni ; Khaldoon Anmar Omar ; Anas Malik Abdulrahman</i>	
<b>LEAKAGE CURRENT IN EYES OF INFRARED THERMOGRAPHY</b> .....	216
<i>M. Riduan ; B. M. Shariff ; M. F. L. Abdullah ; M. Yusop ; B. A. Latiff</i>	
<b>ENHANCEMENT OF LINK RANGE FOR FSO GROUND TO TRAIN COMMUNICATIONS USING MULTIPLE TRANSMITTERS CONCEPT</b> .....	221
<i>Wafi A. Mabrouk ; M. F. L. Abdullah ; M. S. M. Gismalla</i>	
<b>SIMULATION OF UNDERSEA OPTICAL COMMUNICATION SYSTEM USING DCF AND SSF</b> .....	228
<i>Hassan Muwafaq Gheni ; M. F. L. Abdullah ; R. Talib ; Khaldoon Anmar Omar ; Abdullah Ali Qasim ; Anas Malik Abdulrahman ; Marwan Najm Fakhri ; Abdullah Dawood</i>	
<b>RADIO OVER FIBER (ROF) IMPLEMENTATION USING MZM FOR LONG DISTANCE COMMUNICATION</b> .....	233
<i>Hassan Muwafaq Gheni ; M. F. L. Abdullah ; Khaldoon Anmar Omar ; Abdullah Ali Qasim ; Anas Malik Abdulrahman ; Marwan Najm Fakhri ; Abdullah Dawood</i>	
<b>A CONCEPTUAL FRAMEWORK FOR DETERMINING ACCEPTANCE OF INTERNET OF THINGS (IOT) IN HIGHER EDUCATION INSTITUTIONS OF PAKISTAN</b> .....	239
<i>Humaiz Shaikh ; Mohammad Shadab Khan ; Zulfikar Ahmed Mahar ; Maleeha Anwar ; Ali Raza ; Asadullah Shah</i>	
<b>FORMAL MODELING OF SMART OFFICE USING ACTIVITY DIAGRAM AND NON DETERMINISTIC FINITE AUTOMATA</b> .....	244
<i>Aniqa Rehman ; Saba Latif ; Nazir Ahmad Zafar</i>	
<b>SMART MART SYSTEM USING MAGENTO AND BEACON SENSORS</b> .....	249
<i>Maryam Mairaj ; Aneeq-Ur-Rehman ; Dur-E-Shawar Agha</i>	
<b>ENHANCEMENT OF EFFICIENCY FLYWHEEL THROUGH MATERIAL CHARACTERIZATION</b> .....	255
<i>Atif Saeed ; Muhammad Siddiq ; Fahad Mairaj ; Muhammad Kashif ; Muhammad Abdul Rashid</i>	
<b>FUTURISTIC SHORT RANGE OPTICAL COMMUNICATION: A SURVEY</b> .....	261
<i>Hussain Ahmad ; Syed Muhammad Talha Gillani ; Toheed Omer ; Taimur Hassan ; Saleem Aslam ; Syed Umaid Ali</i>	