

Annual Productivity (Jan-Dec) 2017

Department of CS, COMSATS Lahore Campus

| S.No | Title | Authors | Journal Name | Volume/Issue | Page/Article ID | IF/ISI |
|------|---|--|--|---------------------|-----------------|--------|
| 1 | Alterations in Structural and Biological Activities of Merozoite Surface Protein 2 due to O-GlcNAc Modification: In Silico Approach | Jawaria Munir, Zee-shan Iqbal, Wajahat M. Qazi , Daniel C. Hoessli, Zahid Mahmood and Nasir Uddin | Current Bioinformatics | - | - | 0.77 |
| 2 | Detection of J2EE Patterns based on Customizable Features | Zaigham Mushtaq, Ghulam Rasool , Bilawal Shahzad | International Journal of Advanced Computer Science and Applications (IJACSA) | Volume 8 Issue 1 | PP 361-376 | 0.63 |

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| 3 | A comprehensive review on handcrafted and learning-based action representation approaches for human activity recognition | Allah Bux Sar-gano , Plamen Angelov, Zulfiqar Habib | Applied Sciences | Vol: 7, Issue: 1 | 110 | 1.726 |
| 4 | Online Complete Coverage Path Planning Using Two-way Proximity Search | Amna Khan, Iram Noreen, Hyejeong Ryu, Nakju L. Doh, Zulfiqar Habib | Intelligent Service Robotics | Vol: 33, Issue: 1 | pp: 101-121 | 0.333 |
| 5 | Modeling Cooperative and Competitive Emotions Using Parallel SOM for Artificially Intelligent Agents | Atifa Athar , Khalil Ahmed, Sagheer Abbas, Yousaf Saeed | IJCSNS International Journal of Computer Science and Network Security | Vol: 17, Issue: 2 | PP 270 - 275 | 1.44 |
| 6 | Copy-Move and Splicing Image Forgery Detection and Localization: A Review | Khurshid Asghar, Zulfiqar Habib , Muhammad Hussain | Australian Journal of Forensic Sciences | Vol: 49, Issue: 3 | pp: 281-307 | 0.583 |

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| 7 | Multilingual Author Profiling on Facebook | Mehwish Fatima, Komal hasan, Saba Anwar and Rao Muhammad Adeel Nawab | Information Processing and Management | Volume 53, Issue 4 | Pages 886–904 | 1.39 |
| 8 | <u>A review on neuro imaging-based classification studies and associated feature extraction methods for Alzheimer's disease and its prodromal tages</u> | Rathore, S., Habes, M., Iftikhar, M. Aksam, Shacklett, A., & Davatzikos, C. (2017) | Neuroimage | DOI:10.1016/j.neuroimage.2017.03.057 | 530-548 | 5.836 |
| 9 | A Game Theory based Trust Model for Vehicular Ad hoc Networks (VANETs) | M. Mohsin Mehdi, I. Raza, S. A. Hussain | Computer Networks, Elsevier | Volume 121 | 152–172 | 1.49 |
| 10 | Health Monitoring Considering Air Quality Index Prediction Using Neuro Fuzzy Inference Model: A Case Study of Lahore | Saima Munawar, Muhammad Hamid , Muhammad Saleem Khan , Ashfaq Ahmed , and Noreen Hameed, | Pakistan Journal of Basic & Applied Sciences | 13 | 123-132 | - |

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| 11 | Colored Representation of Brain Gray Scale MRI Images to potentially underscore the variability and sensitivity of images | G Gilanie, H Ullah, M Mehmood, U I Bajwa, Z Habib | Current Medical Imaging Reviews | Vol: 13 | - | 0.613 |
| 12 | Multilingual Source Code Analysis: A Systematic Literature Review | Zaigham Mushtaq, Ghulam Rasool , Balawal Shahzad | IEEE Access | Vol PP, Issue 99 | pp: 1-30, | 3.24 |
| 13 | A fast Approach for finding Design Repeat in Textile Rotary printing for Fault detection | Abdul Qayum, Mudasser Naseer | Journal of The Textile Institute | Online published in January. Print version will be available in June. | DOI: 10.1080/00405000.2015. 1135579 | 1.128 |
| 14 | Copy-Move and Splicing Image Forgery Detection and Localization: A Review | KhurshidAsghar, Zulfiqar Habib , Muhammad Hussain | Australian Journal of Forensic Sciences | Vol 49, Issue 3 | PP: 281-307 | 0.833 |
| 15 | A Lightweight Approach for Detection of Code Smells | Ghulam Rasool , Zeeshan Arshad | Arabian Journal for Science and Engineering | Ref.: Ms. No. AJSE-D-15-04237R4 | pp 1-24 | 0.728 |

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| 16 | COUNTER - CORpus of Urdu News TExt Reuse | M. Sharjeel, R. Nawab, P. Rayson | Language Resources and Evaluation | Vol 1/Issue 4 | pp 1–27 | 0.975 |
| 17 | On Complete Coverage Path Planning Algorithms for Non-holonomic Mobile Robots: Survey and Challenges | Amna Khan, Iram Noreen, Zulfiqar Habib | Journal of Information Science and Engineering | Vol: 33, Issue: 1 | 1-23 | 0.392 |
| 18 | Simulation, Modeling and Analysis of Master Node Election Algorithm Based on Signal Strength for VANETs through Colored Petri nets | Syed Asad Hussain , Naeem Akhtar Khan, Ayesha Sadiq, Farooq Ahmad | Neural Computing and Applications | Vol 27 Issues 142 | pp 1–17 | 1.492 |
| 19 | A survey of P2P content sharing in MANETs | Nadir Shah, S.A. Abid , Depei Qian, WaqarMehmood ^a | Computers & Electrical Engineering | Volume 57 Issue 1 | Pages 55–68 | 1.084 |
| 20 | An Efficient Channel Access Scheme for Vehicular Ad Hoc Networks | Syed Asad Hussain , Muddesar Iqbal, Atif Saeed , Imran Raza , Hassan Raza, Amjad Ali , Ali Kashif Bashir, and Adeel Baig | Mobile Information Systems, Hindawi | 2017 | pp: 10 | 1.462 |

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| 21 | Ad Tracking: Advertisement Tracking using Graphics Processing Unit | Javed Iqbal, Muhammad Asif, Muhammad Kashif Hanif, Muhammad Qasim Hunain and Muhammad Hasanain Chaudary | Journal of Engineering Technology | Volume 6, Issue 2 | 232-252 | 0.90 |
| 22 | Optimal Path Planning in Cluttered Environment Using RRT*-AB | Iram Noreen, Amna Khan, Hyejeong Ryu, Nakju L. Doh, Zulfiqar Habib (2017) | Intelligent Service Robotics | - | - | 0.875 |
| 23 | Logical clusters in a DHT-Paradigm for scalable routing in MANETs | A. Tahir, S. A. Abid , Nadir Shah (2017) | Computer Networks (Elsevier) | - | 1-12 | 2.516 |
| 24 | Intelligent churn prediction for telecom using GP-AdaBoost learning and PSO undersampling | Adnan Idris, Aksam Iftikhar , Zia ur Rehman | Cluster Computing, Springer | Online Published first | Page 1-15 | 2.040 |
| 25 | Surveillance of intensity level and geographical spreading of dengue outbreak among males and females in Punjab, Pakistan: A case study of 2011 | Shahbaz Ahmad, Muhammad Asif, Ramzan Talib, Muhammad Adeel, Muhammad Yasir, Muhammad Hasanain Chaudary | Journal of Infection and Public Health | Volume 10, Issue 6 | Page 1-14 | 1.439 |

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| 26 | An Effective Study of Geographical Pattern and Intensity of Dengue Epidemic among Females in Punjab, Pakistan | Shahbaz Ahmad , Muhammad Asif , Muhammad Majid , Muhammad Waleed Ashraf , Muhammad Hasanain Chaudary , Manazza Iqbal | Journal of Engineering Technology | Volume 6, Special Issue on Technology Innovations and Applications Oct. 2017 | Pages 45-57 | 0.90 |
| 27 | Extending social networks with delegation | Ahmad, A. , Whitworth, B., Zeshan, F., Bertino, E., and Friedman, R. | <i>Elsevier Computers & Security</i> | Volume 70 | Pages 546-564 | 2.849 |
| 28 | An Ontology-Based Service Discovery Framework for Dynamic Environments | Zeshan, F., Ahmad, A. , Mehmood, A., Ulhaq, I., Mohamad, R., Hussain, S. A., Raza, I. , Ahmad, N., Abdulgader, N., and Babar, M. | <i>IET Software</i> | Volume 11 Issue 2 | Page(s): 64 - 74 | 1.07 |
| 29 | Context-Aware Ontology and Web Services Discovery for Distributed Embedded Real-Time Systems | Zeshan, F. , Mohamad, R., Ahmad, N. Othman, M. B., Jubrail, S. A., Hussain, S. A., Ahmad, A. , Ali, A., Ashraf, M., Babar, I. | <i>Malaysian Journal of Computer Science</i> | - | - | 0.74 |
| 30 | Exploiting Semantics of Temporal Multi-Scale Methods to Optimize Multi-Level Mesh Partitioning | M. Hasan Jamal , Arun Prakash, Milind Kulkarni | International Journal for Numerical Methods in Engineering (IJNME) | Vol. 112, Issue 1 | 58-85 | 2.1 |

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| 31 | Multilevel classification of security concerns in cloud computing | SA Hussain, M Fatima, A Saeed, I Raza, RK Shahzad (2017) | Applied Computing and Informatics, Elsevier | Vol: 13, Issue: 1 | pp: 57-65 | ISI |
| 32 | Estimating Evapotranspiration using Machine Learning techniques | Muhammad Adnan, Abaid-ur-Rehman, M. Ahsan Latif, Maria Nazir | International Journal of Advanced Computer Science and Applications | Vol. 8, Issue No. 9 | Pp 108-113 | ISI |
| 33 | A Systematic Mapping Study on Software Measurement Programs in SMEs | Touseef Tahir, Ghulam Rasool | E-Informatica Software Engineering Journal | - | - | - |
| 34 | Network Intrusion detection through discriminative feature selection by using sparse logistic regression | Reehan Ali Shah ,Yuntao Qian, Dileep Kumar, Munwar Ali and Muhammad Bux Alvi. | Future Internet | - | - | - |
| 35 | Statistical machine translation of Indian languages: a survey | <ul style="list-style-type: none"> • Nadeem Khan Jadoon • Waqas Anwar, Usama Ijaz Bajwa • Farooq Ahmad | Neural Computing and Applications | - | Pp 1-13 | 2.61 |

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| 36 | <ul style="list-style-type: none"> Android-based Verification System for Banknotes | <ul style="list-style-type: none"> Ubaid Ur Rahman , Allah Bux Sargano, Usama Ijaz Bajwa | Journal of Imaging | Volume 3(4) | Pp 1-14 | 2.69 |
| 37 | <ul style="list-style-type: none"> A multi-modal, multi-atlas based approach for Alzheimer detection via machine learning | <ul style="list-style-type: none"> Aksam Iftikhar | International Journal of Imaging Systems and Technology | - | - | 1.139 |
| 38 | Modeling and Verification of Payment System in E-Banking | Iqra Obaid Syed Asad Raza Kazmi Awais Qasim | International Journal of Advanced Computer Science and Applications(IJACSA) | Volume 8 Issue 8, 2017 | Page 195-201 | 0.63 |
| 39 | Measuring Short Text Reuse For The Urdu Language | S. Sameen, M. Sharjeel, R. Nawab , P. Rayson and I. Muneer | IEEE ACCESS | Volume PP, Issue 99 | Page 1-1 | 3.244 |
| 40 | Automatic Enhancement of Digital Images using Cubic Bézier Curve and Fourier Transformation | Khurshid Asghar, Ghulam Gilanie, Mubbashar Saddique, Zulfiqar Habib | Malaysian Journal of Computer Science | Vol: 30, Issue: 4 | pp: 300-310 | 0.6 |

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| 41 | Classification of Normal and Abnormal Brain MRI Slices using Gabor Texture and Support Vector Machines | Ghulam Gilanie, Usama Ijaz Bajwa , Mustansar Mahmood Waraich, Zulfiqar Habib , Hafeez Ullah, Muhammad Nasir | Signal, Image and Video Processing | - | pp: 1-9 | 1.102 |
| 42 | Extending social networks with delegation | Ahmad, A. , Whitworth, B., Zeshan, F., Bertino, E., and Friedman, R. | Elsevier Computers & Security | Volume 70 | Pages 546-564 | 2.849 |
| 43 | Computer-Aided Detection (CADe) System for Detection of Malignant Lung Nodules in CT Slices – A Key for Early Lung Cancer Detection | Usama Ijaz Bajwa* , Abdullah Ali Shah, Muhammad Waqas, Ghulam Gilanie, Asma Ejaz Bajwa. | Current Medical Imaging Reviews | Vol 13 | - | 0.613 |
| 44 | Analyzing readers behavior in downloading articles from IEEE digital library: a study of two selected journals in the field of education | Khan, M. S. and Younas, M | Scientometrics | Vol. 110, Issue 3 | pp. 1523–1537 | 2.147 |

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| 45 | In vitro Salmonella Typhi Biofilm Formation on Gallstones and its Disruption by Manuka Honey | A Hannan, A E Bajwa, S Riaz, U Arshad, S Saleem, U I Bajwa | Pakistan Journal of Pharmaceutical Sciences | Vol: 31, Issue: 1 | pp: 129-135 | 0.682 |
| 46 | Advance Modeling of Agriculture Farming Techniques Using Internet of Things | Qura-Tul-Ain Khan, Sa-gheer Abbas, Atifa Athar | IJCSNS International Journal of Computer Science and Network Security | Vol. 17 No. 12 | pp. 114-119 | 1.5 |
| 47 | BrainStorm: a psychosocial game suite design for non-invasive cross-generational cognitive capabilities data collection | Faizan Ahmad , Yiqiang Chen, Lisha Hu, Shuangquan Wang, Jindong Wang, Zhenyu Chen, Xinlong Jiang & Jianfei Shen | Journal of Experimental & Theoretical Artificial Intelligence (JETAI) | Vol. 29 , Iss. 6 | Pages 1311-1323 | 1.70 |

BOOK CHAPTER

1. Ring EFJ, Jones CD, Ammer K, Plassmann P, Vardasca R, **Bajwa UI**. Cooling agents' effect monitoring when applied to skin of healthy human subjects, Innovative Research in Thermal Imaging for Biology and Medicine, Ricardo Vardasca, Joaquim Gabriel (Eds.), IGI-Global, USA 2017, 79-92. ISBN: 978-152-252-072-6. Chapter 4. (DOI: 10.4018/978-1-5225-2072-6.ch004).
2. Book chapter, Authors: **Syed Asad Hussain, Imran Raza and Mohsin mehdi**. Title: "Energy efficient routing protocol for ambient energy harvesting in the internet of things", internet of things, springer. Accepted

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4. A Tool for Knowledge-oriented Physics-based Motion Planning and Simulation, Muhayyudin, Aliakbar Akbari, Jan Rosell, Jan, **Wajahat Mahmood Qazi**, 2nd EAI International Conference on Future Intelligent Vehicular Technologies, Oct 17–19, 2017, Islamabad.
5. *PLACE*: Planning based Language for Agents and Computational Environments, Adnan Hashmi, **Muhammad Usman Akram** and Amal El Fallah Seghrouchni, 15th European Conference on Multi-Agent Systems, 14-15 December 2017, Accepted
6. **Dr. Zulfqar Habib**, Iram Noreen, “A review of path smoothness approaches for non-holonomic mobile robots" has been accepted for presentation at the IEEE Technically Sponsored Computing Conference 2018, to be held from 10-12 July 2018 in London, United Kingdom
7. Amna Khan, Iram Noreen, **Zulfqar Habib** "An Energy Efficient Coverage Path Planning Approach for Mobile Robots", International Computing Conference. (Accepted).