

List of Research Publications

Name of Faculty Member: Dr. Khurram Gulzar Rana (Assistant Professor of IT)

1. **Khurram Gulzar Rana**, Cai Yongquan, Allah Ditta, Muhammad Azeem, Muhammad Qasim. Circumventing Sinkhole Attack in Ad hoc Networks. *International Journal of Wireless and Mobile Computing*. 2015. 9(4): 363–369. (EI: 20160201784449).
2. **Khurram Gulzar Rana**, Cai Yongquan, Muhammad Azeem, Allah Ditta, Haiyang Yu, Sajjad Ali Khuhro. Wireless ad hoc network: detection of malicious node by using neighbor based authentication approach. *International Journal of Wireless and Mobile Computing*. 2018. 14(1): 16–24. (EI: 20181004878309).
3. **Khurram Gulzar Rana**, Cai Yongquan, Muhammad Azeem, Allah Ditta, Haiyang Yu. Detection of Malicious Node in Wireless Ad Hoc Network by Using Acknowledgement Based Approach. In *Proc. of ACM 7th International Conference on Communication and Network Security*, Tokyo, Japan. November 24–26, 2017: 76-80. (EI: 20180704798542).
4. **Khurram Gulzar Rana**, Cai Yongquan, Muhammad Azeem, Muhammad Qasim, Allah Ditta. An Efficient Approach to Detect and Remove Black Hole Attack in Wireless Sensor Networks. In *Proc. of IEEE International Conference on Computer Systems, Electronics and Control*. Dalian, China. December 25-27, 2017: 151-155. (EI, ISBN: 978-1-5386-3573-5)
5. Allah Ditta, Cai Yongquan, Muhammad Azeem, **Khurram Gulzar Rana**, Muhammad Qasim Memon and Haiyang Yu. Information Hiding: Arabic Text Steganography by Using Unicode Characters to Hide Secret Data. *International Journal of Electronic Security and Digital Forensics*. 2018. 10(1): 61-78. (EI: 20180304658032).
6. Allah Ditta, Cai Yongquan, **Khurram Gulzar Rana**, Kong Shanshan, Muhammad Azeem, Tahadray Jean. By Using Different Techniques of Steganography Deducting Null Cipher in Plain Text. *International Journal of Wireless and Mobile Computing*. 2015. 9(4): 307-316. (EI: 20160201784450).
7. Muhammad Azeem, Jingsha He, **Khurram Gulzar Rana**, Faheem Akhtar. A cryptographic Data Hiding Algorithm with High Cover Text Capacity. *International Journal of Electronic Security and Digital Forensics*. 2019. 11(2): 225-244. (EI).

8. Muhammad Azeem, Cai Yongquan, Allah Ditta, **Khurram Gulzar Rana** and Faheem Akhtar Rajpoot. Information Hiding: A Novel Algorithm for Enhancement of Cover Text Capacity by Using Unicode Characters. *International Journal of Information and Computer Security*. 2018. 10(4): 437-453. (EI).
9. Allah Ditta, Cai Yongquan, Muhammad Azeem, **Khurram Gulzar Rana**, Lei Chen. Design and Implementation of Skype Static Traffic Identifier with Analysis of Skype Login Process on LAN. *International Journal of Computer Science and Information Security*. 2016. 8(14): 683-693. (ESCI).
10. Muhammad Azeem, Cai Yongquan, **Khurram Gulzar Rana**, Zeeshan Shaukat, Allah Ditta. A Secure and Size Efficient Approach to Enhance the Performance of Text Steganographic Algorithm. In *Proc. of IEEE International Conference on Computer Systems, Electronics and Control*. Dalian, China. 2017: 146-150. (EI).
11. Haiyang Yu, Cai Yongquan, Fei Xue, **Khurram Gulzar Rana** and Shanshan Kong. Efficient public auditing for data migration across cloud systems. *International Journal of Wireless and Mobile Computing*. 2017. 12(1): 41-48. (EI: 20171303492468).
12. Muhammad Qasim Memon, He Jingsha, Aasma, **Khurram Gulzar Rana** and Allah Ditta. Dynamic integration of PL/SQL for Complex Queries. *International Journal of database theory and application*. 2016. 9(10): 351-362. (EI: 20164903089141).
13. Muhammad Qasim Memon, He Jingsha, Aasma Memon, **Khurram Gulzar Rana** and Muhammad Salman Pathen. Query Processing for Time Efficient Data Retrieval. *Indonesian Journal of Electrical Engineering and Computer Science*. 2018. 9(3): 784-788. (EI).
14. Allah Ditta, Muhammad Azeem, Shahid Naseem, **Khurram Gulzar Rana**, Muhammad Adnan Khan, Zafar Iqbal. A secure and size efficient algorithm to enhance data hiding capacity and security of cover text by using unicode. *Journal of King Saud University - Computer and Information Sciences*. Volume 34, Issue 5, May 2020, Pages 2180-2191. (SCI).