

Publications – IT Department

Author Name	Title
Dr. Ahmad Naeem Akhtar	Journal Papers
	Akhtar, AN, Ghafoor, A, Arif, F, Fuzzification supported spectrum decision framework for cognitive radio networks. Trans Emerging Tel Tech. 2017;28:e3229. https://doi.org/10.1002/ett.3229
	H. Z. Khan, M. Ali, M. Naeem, I. Rashid, A. N. Akhtar and F. Akram, "Joint DL/UL Decouple User Association in Microwave and mmWave Enabled Beyond 5G Heterogeneous Networks," in IEEE Access, vol. 9, pp. 134703-134715, 2021, doi:10.1109/ACCESS.2021.3116939. URL: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9555600&isnumber=9312710
	Humayun Zubair khan , Mudassar Ali, Muhammad Naeem , Imran Rashid , Shahid Mumtaz, Adnan Ahmed Khan, Ahmed Naeem Akhtar , secure resources management in beyond 5G heterogeneous networks with decoupled access, And Hoc Networks, volume 125,2022,102737,ISSN 1570-8705, URL: https://dio.org/10.1016/j.adhoc.2021.102737
	Rasheed, Tallataf, Adnan Rashdi, and Ahmad Naeem Akhtar. "Spectrum Sensing for Cognitive Radio Users using Constant Threshold Range in Energy Detector." International Journal of Computer Science Issues (IJCSI) 11.5 (2014): 125 https://www.ijcsi.org/articles/Spectrum-sensing-for-cognitive-radio-users-using-constant-threshold-range-in-range-in-energy-detector.php
	Conference Papers
	A. N Akhtar, A Rashdi and F. Arif, "Fusion based spectrum decision framework for cognitive radio users ," 2015 IEEE 16 th International Symposium on A World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2015,pp. 1-6, doi: 10.1109/WoWMoM.2015.7158193. URL: https://ieeexplore.ieee.org/stamp/Stamp.jsp?tp=&arnumber=7158193 &isnumber=7158105
	Ahmad Naeem Akhtar, Fahim Arif and Adil Masood Siddique - Spectrum Decision Framework to Support Cognitive Radio Based IoT in 5G, Cognitive Radio in 4G/5G Wireless Communication Systems Shahriar Shirvani Moghaddam, IntechOpen, DOI: null. Available from: https://www.intechopen.com/corrections/64730
	T.Rasheed, A. Rashdi and A.N. Akhtar, "A cluster based cooperative technique for Spectrum Sensing using Rely Factor," 2015 12 th International Bhurban Conference on Applied Sciences and Technology (IBCAST), 2015, pp. 588-590,doi: 10.1109/IBCAST.2015.7058562. URL: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7058562&isnumber=7058466
Rasheed, T., Rashdi, A., & Akhtar, A. N. (2018). Cooperative spectrum sensing using fuzzy logic for cognitive radio network. In 2018 Advances in Science and	

	Engineering Technology International Conferences (ASET). 2018 Advances in Science and Engineering Technology International Conferences (ASET). IEEE. https://doi.org/10.1109/icaset.2018.8376914
Dr. Irshad Ahmad Sumra	Journal Papers
	Sumra, I.A, P. Sellappan, Azween Abdullah, Ahmad Ali.,” Security issues and Challenges in MANET-VANET-FANET: A Survey”, EAI Endorsed Transactions on Energy Web and Information Technologies, Volume. 5, issue. 17, Apr 2018.
	Sumra, I.A.; Ahmad, I.; “Towards Improving Security in VANET: Some New Possible Attacks and Their Possible Solutions”, Journal of Internet Technology (JIT), Volume 17, Issue 4, July 2016. EI Compendex index, Impact Factor (IF) = 0.786.
	Sumra, I.A.; Hasbullah, H.; bin AbManan, J.-L.;”Classification of Traffic System in Intelligent Transportation System (ITS”, International journal of Moder Traffic and Transportation Engineering Research (MTTER), Volume 2, Issue 4, April 2013. Transportation Research Board (TRB) index. CGIJ OAJI-0.1.50.
	Ahmad, I. Ahmad, F. Amin, Sumra, I.A, “Towards Intrusion Detection to Secure VANET-Assisted Healthcare Monitoring System,” Journal of Medical Imaging and Health Informatics, vol. 7, no. 6, pp. 1391–1398, 2017. IF-0.659.
	Sumra, I.A.; Hasbullah, H.; Ahmad, I.; bin AbManan, J.-L.; ,” “Classification of Attacks in Vehicular Ad hoc Network (VANET)”, International Journal of INFORMATION, Volume 16, Issue 5, May 2013.
	Sumra, I.A., Using computing method to secure vehicular ad hoc network (VANET), Journal of Advances in Computer Networks, Vol. 6, No. 1, June 2018. EI Compendex index.
	Sumra, I.A.; Hasbullah, H.; bin Ab Manan, J.-L.;” Denial of Service (DOS) Attack and Possible Solutions in VANET”, International Journal of Electronics and Communication Engineering Vol:4, No.5,2010.
	Zahid A.H., Sumra, I.A, ”Security in Vehicular Ad hoc Network (VANET) using Trusted Platform. Module (TPM): A Survey”, International Journal for Electronic Crime Investigation. Volume. 2, Issue no.3,2018.
	Sumra, I.A, P. Sellappan, A. Abdullah, ”Security issues and challenges in VANET, Research Journal Of Computer Science And Information Technology, Volume.1 Issue.2,march 2018.
	Sumra, I.A, Akhtar,A.N., “Applications of Internet of Vehicle(IoV): A Survey”, Research Journal of Computer Science And Information Technology, Volume. 4, Issue no.2 2020.
	G. Bibi, Sumra, I.A.,” A Comprehensive Survey on E-Learning System in Cloud Computing Environment”, Engineering Science and Technology International Research Journal(ESTIRJ), Volume.1 Issue.1 April 2017.
	Amna Asif, Sumra, I.A,” Applications of Wireless Body Area Network (WBAN): A Survey”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.1 Issue.1 April 2017.

Sumra, I.A, P. Sellappan, A. Abdullah,”An Integrated Multi-- Level Security Model for malicious attacks resiliency in VANET”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.1 Issue.3,sep 2017.
Madhia Qadir, Sumra, I.A,” Impact of Social Media on Human Life”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.1 mar 2020. Scopus index.
Irshad Ali, Sumra, I.A,” Usability Evaluation of E-Commerce Mobile Applications. A Case Study of Ali Express, Daraz and Goto”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.1 mar 2020. Scopus index.
M Saqlain Nawaz, Sumra, I.A,” IFMP – Intrinsic Face Motion Pipeline”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.1 mar 2020. Scopus index.
Adnan Ali, M Jameel Arshad, Sumra, I.A,” Research Issues and Challenges on Big Data: A Survey”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.1 mar 2020. Scopus index.
Jameel Arshad, Sumra, I.A,” A Comprehensive Survey on Applications of Internet of Things (IoT)”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.1 mar 2020. Scopus index.
Sharif Hussain, H M Sohaib Ali, Sumra, I.A,” A Comprehensive Survey on Automated Vehicles”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.2 may 2020.
M. Sohaib Ali, Sumra, I.A,” 7, Vs of Big Data: A Survey”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.2 may 2020.
Faizan Kurshid, Sumra, I.A, “Detection of Brian Tumor through Image Processing Techniques: A Survey”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.2 may 2020.
M Hashim safder, Sumra, I.A,” Usability of Mobile Data Sharing Application; A Case Study of ShareIt”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.2 may 2020.
Muhammad Saleem, Sumra, I.A,” Virtual Machine Optimization to Achieve Energy Efficient Optimum Resource Utilization in Cloud Data Center”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.2 may 2020.
Suhail Anjum, Sumra, I.A,” Li-Net: Towards A Smart Li-Fi Vehicular Network”, Engineering Science and Technology International Research Journal (ESTIRJ), Volume.4 Issue.2 may 2020.
Sumra, I.A.; Ahmad, I.; Hasbullah, H.; bin AbManan, J.-L.; “Trust and Trusted Computing Vehicular ad hoc network (VANET)”,Computer Science Journal (CSJ),Volume 1, Issue 1, April 2011.
Sumra, I.A.; Ahmad, I.; Hasbullah, H.; bin AbManan, J.-L.; “Trusted Computing in vehicular ad hoc network (VANET)”, Global Journal on Technology, Volume 1, Issue 1, Nov 2012.

	Sumra, I.A.; Hasbullah, H.; Ahmad, I.; bin AbManan, J.-L.; "Using the Grades Mechanism to differentiate the Behavior of Attacker Users and Normal Users in Vehicular Adhoc Network (VANET)", International Journal of Information Technology and Electrical Engineering(ITEE), Volume 3, Issue 4, August 2014.
	Conference Papers
	Sumra, I.A.; Hasbullah, H.; bin AbManan, J.-L.; "User requirements model for vehicular Ad hoc network applications," International Symposium in Information Technology (ITSim), pp. 800-804, 15-17 June 2010, Kuala Lumpur, Malaysia.
	Sumra, I.A.; Ahmad, I.; Hasbullah, H.; bin AbManan, J.-L.; "Classes of attacks in VANET", Saudi International Electronics Communications and Photonics Conference (SIECPC), pp.1-5, 24-26 April 2011, Riyadh, Saudi Arabia.
	Sumra, I.A.; Hasbullah, H.; Ahmad, I.; bin AbManan, J.-L.; "Forming vehicular web of trust in VANET", Saudi International Electronics Communications and Photonics Conference (SIECPC), pp.1-6, 24-26 April 2011, Riyadh, Saudi Arabia.
	Sumra, I.A.; Hasbullah, H.; Ahmad, I.; bin AbManan, J.-L.; "New card based scheme to ensure security and trust in vehicular communications", Saudi International Electronics, Communications and Photonics Conference (SIECPC), 2011, pp.1-6, 24-26 April 2011, Riyadh, Saudi Arabia.
	Sumra, I.A.; Hasbullah, H.; Manan, J.A.; Iftikhar, M.; Ahmad, I.; Alghamdi, A.S.; "A novel vehicular SMS system (VSS) approach for Intelligent Transport System (ITS)", 11th International Conference on ITS Telecommunications (ITST), pp.540-546, 23-25 Aug. 2011, St. Petersburg, Russia.
	Sumra, I.A.; Hasbullah, H.; Manan, J.A.; Iftikhar, M.; Ahmad, I.; Aalsalem, M.Y.; , "Trust levels in peer-to-peer (P2P) vehicular network", 11th International Conference on ITS Telecommunications (ITST), pp.708-714, 23-25 Aug. 2011, St. Petersburg, Russia.
	Sumra, I.A.; Hasbullah, H.; Manan, J.A.; "VANET security research and development ecosystem," National Postgraduate Conference (NPC), pp.1-4, 19-20 Sept. 2011, Kuala Lumpur, Malaysia.
	Sumra, I.A.; Ahmad, I.; Hasbullah, H.; bin AbManan, J.-L.; "Behavior of attacker and some new possible attacks in Vehicular Ad hoc Network (VANET)", 3rd International Congress on Ultra Modern Telecommunications (ICUMT), pp.1-8, 5-7 Oct. 2011, Budapest, Hungary.
	Sumra, I.A.; Hasbullah, H.; bin AbManan, J.-L.; "Using the Grades Mechanism to Differentiate the Users in Vehicular Ad hoc Network (VANET)", FTCom 2012, 13-15 Dec, Malacca, Malaysia.
	Sumra, I.A.; Bin Hasbullah, H.; AbManan, J.-L.; "Using TPM to ensure security, trust and privacy (STP) in VANET," 5th National Symposium on Information Technology: Towards New Smart World (NSITNSW), pp.1- 6, 17-19 Feb 2015, Riyadh, Saudi Arabia.
	Sumra, I.A.; Bin Hasbullah, H.;"Using Trusted Platform Module (TPM) to Secure Business Communication (SBC) in Vehicular Ad hoc Network (VANET)", International Conference on Recent Advances in Computer

	Systems (RACS 2015), pp. 28-33, 30 Nov - 01 Dec 2015, Saudi Arab. Atlantis Press. EI/Compendex index.
	Rehman, M.U.; Hasbullah, H.B.; Sumra, I.A.; "Designing a hybrid system model for information dissemination in vehicular ad hoc networks," IEEE International Conference on Computer Applications and Industrial Electronics (ICCAIE), pp.503-508, 4-7 Dec. 2011.
	Rehman, M.U.; Hasbullah, H.B.; Sumra, I.A.; "A comparative analysis of routing architecture for information dissemination in Vehicular Ad Hoc Networks," International Conference on Computer & Information Science (ICCIS), pp.796-801, 12-14 June 2012.
	S Rizvi, NM Saad, Sumra, I.A., B Belhaouarisamir, "Dual Mode Mobile Terminal for Tightly Coupled Integrated UMTS and WLAN Network", 4th International Conference on Computer and Electrical Engineering (ICCEE 2011), pp.1-5, 14-16th Oct 2011.
	Sumra, I.A.; Ahmad, I.; Hasbullah, H.; bin AbManan, J.-L.; "Comparative study of security hardware modules (EDR, TPD and TPM) in VANET", 3rd National Information Technology Symposium (NITS) 2011, king Saud University Riyadh,7-8 March 2011 Riyadh, Saudi Arabia.
	Sumra, I.A.; Hasbullah, H.; bin AbManan, J.-L.; "Trusted User in Vehicular Network", SZABIST's International Research Conference, 14 Nov 2011,Karachi, Pakistan.
	Sumra, I. A., Hasbullah, H.; Ahmad, I.; bin AbManan, J.-L.; "Timing attack in vehicular network", 15th WSEAS international conference on Computers, 2011, pp. 151-155, Corfu Island, Greece.
	Sumra, I.A.; Hasbullah, H.; bin AbManan, J.-L.;" Effects of Attackers and Attacks on Availability Requirement in Vehicular Network: A Survey", International Conference on Computer & Information Sciences (ICCOINS), 3-5 June 2014, Kuala Lumpur, Malaysia.
Mr. Umair Waqas	Draz, U., Ali, T., Yasin, S., & Waqas, U. (2018). Towards Formal Modeling of Hotspot Issue by Watch-Man Nodes in Wireless Sensor and Actor Network. In 2018 International Conference on Frontiers of Information Technology (FIT). 2018 International Conference on Frontiers of Information Technology (FIT). IEEE. https://doi.org/10.1109/fit.2018.00063
	Draz, U., Ali, T., Yasin, S., Waqas, U., & Rafiq, U. (2019). Towards Formalism of Link Failure Detection Algorithm for Wireless Sensor and Actor Networks. In 2019 International Conference on Engineering and Emerging Technologies (ICEET). 2019 International Conference on Engineering and Emerging Technologies (ICEET). IEEE. https://doi.org/10.1109/ceet1.2019.8711857
	Draz, U., Ali, T., Yasin, S., Naseer, N., & Waqas, U. (2018). A parametric performance evaluation of SMDBRP and AEDGRP routing protocols in underwater wireless sensor network for data transmission. In 2018 International Conference on Advancements in Computational Sciences (ICACS). 2018 International Conference on Advancements in Computational Sciences (ICACS). IEEE. https://doi.org/10.1109/icacs.2018.8333484

	ARCPS - Anti-Redundant Cloud & Public Storage Moving towards Intelligent Cloud
	A novel layer-by-layer angle-based energy efficient watchman algorithm for wireless sensor and actor networks
	Draz, U., Ali, T., Yasin, S., Waqas, U., & Rafiq, U. (2019). EADSA: Energy-Aware Distributed Sink Algorithm for Hotspot Problem in Wireless Sensor and Actor Networks. In 2019 International Conference on Engineering and Emerging Technologies (ICEET). 2019 International Conference on Engineering and Emerging Technologies (ICEET). IEEE. https://doi.org/10.1109/ceet1.2019.8711858
	Draz, U., Ali, T., Yasin, S., Waqas, U., Ahmad, W., Qazi, A. S., & Gul, S. (2020). A Symptoms Motif Detection of Polio at Early Stages By Using Data Visual Analytics: Polio Free Pakistan. In 2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST). 2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST). IEEE. https://doi.org/10.1109/ibcast47879.2020.9044511
	A Pattern Detection Technique of L-MYC for Lungs Cancer Oncogene in Bioinformatics Big Data
Ms. Akifa Abbas	Use of SPAN for Identified Network Traffic via Machine Learning
	Role of Internet of Medical Things (IoMT) and Block Chain Technology for the Prevention of COVID-19 Pandemic Effect
Ms. Rabia Aslam Khan	Cognitive Radio and Dynamic Spectrum Access
	An Expert System Technique for Sentiment Analysis
	Wireless Networks: A Distributed Operating System Approach
	Spam Review Detection:A Systematic Literature Review
	Data Analytics in Blockchain
	Applications of Machine Learning in Various Feilds: A Systematic Litrature Review
	An Expert System Technique for Sentiment Analysis of Opinions
Ms. Sabreena Nawaz	Cognitive Radio and Dynamic Spectrum Access
	An Expert System Technique for Sentiment Analysis
	Wireless Networks: A Distributed Operating System Approach
	An Expert System Technique for Sentiment Analysis of Opinions
Mr. Sabir Abbas	Standerdization of cloud security using mamdani fuzzifier
	An overview on Huawei mangone services
	Review on Huawei Fusion Sphere Security
	Artificial Neural Network and Mamdani Fuzzifier in Weather Forecasting
	Artificial Neural Network and Mamdani Fuzzifier in Weather Forecasting
Mr. Burhan Ul Haq	The Popular Tools Of Data Sciences: Benefits, Challenges and Applications
	Video Summarization Techniques: A Review
	The Impact Of Social Media: A Survey
	Integrating Dynamic Simulation Modeling To Assess Pathophysiology Of Arthritis
	Data-Driven Typhoid Fever Modelling And Computer Simulation

	Computer Models For Malaria Infections, Diagnosis And Transmission Analysis
	The Impact Of The Internet Uses In Asian Countries: Causes And Legislative Framework
	Role of Internet of Medical Things (IoMT) and Block Chain Technology for the Prevention of COVID-19 Pandemic Effect
Ms. Mariyum Nizami	Blood detection using Digital Image Processing and histogram on MATLAB
	Compression techniques and image compression on MATLAB
	Investigation of child Pornography and age detection using facial images
	Compression techniques for different applications of real time communication
	Causes prevention and laws concerned with cyber child pornography