

## Publications (2018 – 2021)

	Non-Convex T11 Regularization for Learning Sparse Neural Networks July 2021. Conference paper, Mohammad Khalid Pandit, Roohie Naaz, Ahsan Chisti.
	Landslide Prediction using Machine Learning on the Edge Node in Pervasive Internet of Things, Conference Paper, January 2021, Saniya Zahoor, Roohie Naaz
	A Fuzzy Logic Based Method for Incorporating Ethics in the Internet of Things, July 2021, International Journal of Ambient Computing and Intelligence , Sahil sholla, Roohie Naaz, Ahsan Chisti.
	Modelling Resource Allocation in Pervasive Edge-IoT Applications, April 2021, Book Chapter, Saniya Zahoor, Roohie Naaz
	Constraints in Pervasive IoT Applications: An analysis, April 2021, Book Chapter, Saniya Zahoor, Roohie Naaz
	Game Theory Analysis and Modelling of Sophisticated Multi-Collusion Attack in MANETs, April 2021, IEEE Access, Burhan Ul Islam, Farhat Anwar, Rashidah Olanrewaju, Roohie Naaz
	Adaptive Hybrid Arbiter Design for Real Time Traffic Aware Scheduling, March 2021, Circuit World, Afshan Amin, Roohie Naaz, Najeeb ud din
	Learning Sparse Neural Networks Using Non-Convex Regularization, March 2021, IEEE Transactions on Emerging Topics in Computational Intelligence, Mohammad Khalid Pandit, Roohie Naaz, Ahsan Chisti.
<b>2021</b>	Applicability of Blockchain Smart Contracts in Securing Internet and IoT: A Systemic literature review, January 2021, Computer Science Review, Auqib Hamid, Roohie Naaz.
	Saiyed Umer, Ranjeet kumar Rout, C. Pero, et al. Facial expression recognition with trade-offs between data augmentation and deep learning features. J Ambient Intell Human Comput (2021). <a href="https://doi.org/10.1007/s12652-020-02845-8">https://doi.org/10.1007/s12652-020-02845-8</a> (IF-4.594)
	Machine Learning and Deep Learning Based Computational Techniques in Automatic Agricultural Diseases Detection: Methodologies, Applications, and Challenges. Archives of Computational Methods in Engineering (2021): 1-37. Springer. SCIE Indexed (Impact Factor: 6.730 )
	A Survey on Applications of Artificial Intelligence for Pre-Parametric Project Cost and Soil Shear-Strength Estimation in Construction and Geotechnical Engineering. Sensors 21.2 (2021): 463. SCIE Indexed (Impact Factor: 3.275)
	A Detailed Tutorial Survey on VANETs: Emerging Architectures, Applications, Security Issues and Solutions, International Journal of Communication Systems (IJCS) (Wiley). SCIE Indexed (Impact Factor: 1.319)
	Adaptive energy efficient fuzzy: An adaptive and energy efficient fuzzy clustering algorithm for wireless sensor network-based landslide detection system. IET Networks 10.1 (2021): 1-12. SCOPUS Indexed
	Design of quantum-dot cellular automata-based communication system using modular N-bit binary to gray and gray to binary converters. International Journal of Communication Systems (IJCS) 34.4 (2021): e4702. (Wiley). SCIE Indexed (Impact Factor: 1.319)
	VANETs cloud: Architecture, applications, challenges, and issues. Archives of Computational Methods in Engineering 28 (2021): 2081-2102. Springer. SCIE Indexed (Impact Factor: 6.730 )
<b>2020</b>	Demystifying Cryptography behind Blockchains and a Vision for Post Quantum Blockchains, Conference Paper, November 2020, Auqib Hamid, Roohie Naaz.
	Forgery Protection of Academic Certificates through Integrity Preservation at Scale using Ethereum Smart Contracts, Dec 2020, Journal of Scalable Computing, Auqib Hamid, Roohie Naaz
	AutomATIC Detection of COVID-19 from Chest Radiographs using Deep Learning, November 2020, Radiography Journal, Mohammad Khalid Pandit, Shoaib Bandy, Roohie Naaz, Ahsan Chisti

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<p>Maximum Entropy Based Semi-Supervised Learning for Automatic Detection and Recognition of Objects Using Deep ConvNets, May 2020, International Journal of Computational Vision and Robotics, Vipul Sharma, Roohie Naaz</p>
<p>SSFNET-VOS: Semantic Segmentation and Fusion Network for Video object Segmentation, September 2020, Pattern Recognition Letters, Vipul Sharma, Roohie Naaz</p>
<p>A Comprehensive and Systemic look up into Deep Learning Based Object Detection Techniques: A review, September 2020, Computer Science Review, Vipul Sharma, Roohie Naaz</p>
<p>Design and Modelling of Resource Constrained ToT Based Body Area Networks, August 2020, Journal of Scalable Computing, Saniya Zahoor, Roohie Naaz</p>
<p>A Parallelization Based Data Management Framework for Pervasive IoT Applications, August 2020, Journal of Scalable Computing, Saniya Zahoor, Roohie Naaz</p>
<p>Adaptive Task Scheduling in IoT using Reinforcement Learning, July 2020, Journal of Intelligent Computing and Cybernetics, July 2020, Mohammad Khalid Pandit, Roohie Naaz, Ahsan Chisti.</p>
<p>A Game Theory Based Strategic Approach to Ensure Reliable Data Transmission with Optimized Network Operations in Futuristic Mobile Adhoc Networks, June 2020, IEEE Access, Burhan Ul Islam, Farhat Anwar, Rashidah Olanrewaju, Roohie Naaz</p>
<p>A Novel Multi-Agent and multilayered Game Formulation for Intrusion Detection in Internet of Things, May 2020, IEEE Access, Burhan Ul Islam, Farhat Anwar, Rashidah Olanrewaju, Roohie Naaz</p>
<p>Wi-Fi: WPA2 Security Vulnerability and Solutions, April 2021, Journal of Wireless and Technology, Zahoor Ahmad Najar, Roohie Naaz</p>
<p>Analyzing the depression and suicidal tendencies of people affected by COVID-19's lockdown using sentiment analysis on social networking websites. Journal of Statistics and Management Systems (2020): 1-19. ESCI.</p>
<p>Security issues and challenges in internet of things: A study", published in International Journal of Control and Automation Vol. 13, No.1, (2020), pp. 195 – 198, ISSN: 2005-4297 IJCA. RG Journal Impact: 0.25 *(Scopus Indexed)</p>
<p>Sahil Sholla, Roohie Naaz and Mohammad Ahsan Chishti, "A Neuro Fuzzy System for Incorporating Ethics in the Internet of Things" Journal of Ambient Intelligence and Humanized Computing (Accepted), (SCI-E/Scopus), ISSN: 1868-5137</p>
<p>Mohammad Kalid Pandit, Roohie Naaz Mir and Mohammad Ahsan Chishti, "Adaptive Task Scheduling in IoT using Reinforcement Learning", International Journal of Intelligent Computing and Cybernetics. (Accepted), (SCIE), ISSN: 1756-378X</p>
<p>Syed Rameem Zahra and Mohammad Ahsan Chishti, "Fuzzy Logic and Fog based Secure Architecture for Internet of Things (FLFSIoT)", Journal of Ambient Intelligence and Humanized Computing (Springer), SCIE/Scopus, IF 1.91. ISSN 1868-5137</p>
<p>Jameel Ahamed and Mohammad Ahsan Chishti, "Semantics Interoperability in the Internet of Things- State of the Art and Prospects", International Journal of Innovative Computing and Applications, Inderscience (Accepted),</p>
<p>Syed Rameem Zahra and Mohammad Ahsan Chishti, "Alleviating the Routing Issues of Internet of Nano Things by a Simple, Lightweight and Generic (SLG) Routing Protocol", International Journal of Computing and Digital Systems, Int. J. Com. Dig. Sys. 9, No.2 (Mar-2020), ISSN (2210-142X)</p>
<p>Abdul Rouf Khan and Mohammad Ahsan Chishti "Data Aggregation Mechanisms in the Internet of Things: A Study, Qualitative and Quantitative Analysis", International Journal of Computing and Digital Systems, Int. J. Com. Dig. Sys. 9, No.2 (Mar-2020), Pg 289-297, ISSN (2210-142X)</p>
<p>Tausifa Jan Saleem and Mohammad Ahsan Chishti, "Assessing the Efficacy of Logistic Regression, Multilayer Perceptron, and Convolutional Neural Network for Handwritten Digit</p>

## Publications (2018 – 2021)

	Recognition”, International Journal of Computing and Digital Systems, Int. J. Com. Dig. Sys. 9, No.2 (Mar-2020), Pg 299-308, ISSN (2210-142X)
	Umer, Saiyed, Partha Pratim Mohanta, Ranjeet Kumar Rout, and Hari Mohan Pandey. "Machine learning method for cosmetic product recognition: a visual searching approach." Multimedia Tools and Applications (2020): 1-27.
	Ranjeet Rout, Hari Pandey, Sanchit Sindhwani, et al. Investigation of protein sequence similarity based on physio-chemical properties of amino acids. Authorea. May 06, 2020.
	Hassan, S.S.; Rout, R.K. A Quantitative Comparisons of $\beta$ -Coronavirus Genomes and Their Associated Genes. Preprints 2020, 2020040486 (doi: 10.20944/preprints202004.0486.v1).
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	Sk. Sarif Hassan, Atanu Moitra, Ranjeet Kumar Rout, Pabitra Pal Choudhury, Prasanta Pramanik, Siddhartha Sankar Jana, "On spatial molecular arrangements of SARS-CoV2 genomes of Indian patients", <a href="https://doi.org/10.1101/2020.05.01.071985">https://doi.org/10.1101/2020.05.01.071985</a>
	Hassan, S.S.; Kumar Rout, R.; Sharma, V. A Quantitative Genomic View of the Coronaviruses: SARS-COV2. Preprints 2020, 2020030344 (doi: 10.20944/preprints202003.0344.v1).
	Khan, B.U.I., Olanrewaju, R.F., Anwar, F., Mir, R.N. and Yaacob, M., 2020. Scrutinising internet banking security solutions. International Journal of Information and Computer Security, 12(2-3), pp.269-302.
2019	Mohammad Khalid Pandit, Roohie Naaz Mir, Mohammad Ahsan Chishti Adaptive deep neural networks for internet of things, December 2019.
	Sharma, V. and Mir, R.N., 2019. Saliency guided faster-RCNN (SGFr-RCNN) model for object detection and recognition. Journal of King Saud University-Computer and Information Sciences.
	Khan, B.U.I., Olanrewaju, R.F., Anwar, F. and Mir, R.N., 2019. ECM-GT: Design of efficient computational modelling based on game theoretical approach towards enhancing the security solutions in MANET. Int. J. Innov. Technol. Explor. Eng.(IJITEE), 8(7), pp.506-519.
	Burhan Ul Islam Khan, Roohie Naaz Mir, A critical insight into the effectiveness of research methods evolved to secure IoT ecosystem January 2019 International Journal of Information and Computer Security 11(4/5):332 DOI: 10.1504/IJICS.2019.101908
	Khan, B.U.I., Olanrewaju, R.F., Anwar, F., Mir, R.N. and Najeeb, A.R., 2019. A critical insight into the effectiveness of research methods evolved to secure IoT ecosystem. International Journal of Information and Computer Security, 11(4-5), pp.332-354.
	"Simultaneous Mobility in MPLS", Paper published in International Journal of Computing and Digital Systems (IJCDS) Volume 8, 2019
	Sharma, V. and Mir, R. (2019). An enhanced time efficient technique for image watermarking using ant colony optimization and light gradient boosting algorithm. Journal of King Saud University - Computer and Information Sciences.
	Lone, A. and Mir, R. (2019). Forensic-chain: Blockchain based digital forensics chain of custody with PoC in Hyperledger Composer. Digital Investigation, 28, pp.44-55.
	Yousuf, O. and Mir, R. (2019), "A survey on the Internet of Things security: State-of-art, architecture, issues and countermeasures", Information and Computer Security, Vol. 27 No. 2, pp. 292-323.
	R. K. Rout, S. P. Maity, P. Pal. Choudhury, J.K. Das, Sk. Hassan and H. M. Pandey, "Analysis of Boolean functions based on Interaction graphs Properties and their influence in System Biology" DOI: 10.1007/s00521-019-04102-2, Accepted in Neural Computing and Applications, Springer(SCI, IF-4.213)).
	Hassan, Sk Sarif, Moole Parameswar Reddy, and Ranjeet Kumar Rout. "Dynamics of the Modified n-Degree Lorenz System." Applied Mathematics and Nonlinear Sciences 4, no. 2 (2019): 315-330.
	Rout, Ranjeet Kumar, SK Sarif Hassan, SANCHIT SINDHWANI, HARI MOHAN PANDEY, and Saiyed Umer. "Intelligent Classification and Analysis of Essential Genes Species Using Quantitative Methods." ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM) (2019): TOMM-2019.(SCI,IF-2.25)
	Saiyed Umer, Alamgir Sardar, Bibhas Chandra Dhara, Ranjeet Kumar Rout, Hari Mohan Pandey, " Person Identification using Fusion of Iris and Periocular Deep Features" Neural Network (Elsevier (IF-5.785) ) Manuscript ID-NEUNET-D-19-00350.

## Publications (2018 – 2021)

	Syed Rameem Zahra and Mohammad Ahsan Chishti, "Assessing The Services, Security Threats, Challenges And Solutions In The Internet Of Things", Scalable Computing: Practice and Experience, Volume 20, Number 3, pp. 457–484. ISSN 1895-1767 (ESCI, Scopus) Impact Factor : 0.466
	Sahil Sholla, Roohie Naaz and Mohammad Ahsan Chishti, "Towards the Design of Ethics Aware Systems for the Internet of Things" China Communications (SCI), China Communications, vol. 16, no. 9, pp. 209-221, Sept. 2019, ISSN: 1673-5447, Impact Factor : 1.514
	Tausifa Jan Saleem and Mohammad Ahsan Chishti, "Data Analytics In The Internet Of Things: A Survey", Scalable Computing: Practice and Experience Volume 20, Number 3, pp. 457–484. ISSN 1895-1767 (ESCI, Scopus) Impact Factor : 0.466
	Mohammad Irfan Bala and Mohammad Ahsan Chishti, " Comparative Analysis of Load Balancing Algorithms for Cloud Computing in IoT", International Journal of Sensors, Wireless Communications and Control, International Journal of Pervasive Computing and Communications, Vol. 15 No. 2, 2019 pp. 80-96, (ESCI, Scopus)
	Mohammad Irfan Bala and Mohammad Ahsan Chishti, "Survey of Applications, Challenges and Opportunities in Fog Computing ", International Journal of Pervasive Computing and Communications, Vol. 15 No. 2, pp. 80-96, (ESCI, Scopus) ISSN: 1742-7371
	Amir Rashid Bhat, Abdul Gaffar Mir, M. Irfan Bala and M. Ahsan Chisti, "Resource Allocation in Fog Computing", Advanced Research in Electrical and Electronic Engineering, p-ISSN: 2349-5804; e-ISSN: 2349-5812 Volume 6, Issue 2 April-June, 2019
	Mohammad Irfan Bala, Mohammad Ahsan Chishti, " Load Balancing in Cloud Computing Using Hungarian Algorithm ", International Journal of Wireless and Microwave Technologies(IJWMT), Vol.9, No.6, pp. 1-10, 2019. ISSN: 2076-1449 (Print) (UGC Listed)
	Veningston K, Seifedine Kadry, Haydar Sabeeh Kalash, B. Balamurugan, R. Sathiyaraj. Intelligent Social Network based Data Modeling for Improving Health Care. Springer Health and Technology, Vol.9, Issue No.31, April 2019. DOI: <a href="https://doi.org/10.1007/s12553-019-00303-w">https://doi.org/10.1007/s12553-019-00303-w</a> . ISSN 2190-7188
<b>2018</b>	A survey on Intrusion Detection Systems and Honeypot based proactive security mechanisms in VANETs and VANET Cloud. Vehicular communications 12 (2018): 138-164. (Elsevier) SCIE Indexed (Impact Factor: 4.7)
	Sahil Sholla, Roohie Naaz and Mohammad Ahsan Chishti, "Eventuality of an Apartheid State of Things: An Ethical Perspective on the Internet of Things" International Journal of Technoethics (IJT) 9(2) (E-SCI/Scopus), ISSN: 1947-3451
	Sahil Sholla, Roohie Naaz and Mohammad Ahsan Chishti, "Docile Smart City Architecture: Moving Toward an Ethical Smart City" International Journal of Computing and Digital Systems, Volume 7, No.3 (May-2018), ISSN: 2210-142X (Scopus)
	Mohammad Irfan Bala and Mohammad Ahsan Chishti, "Enabling Epilepsy Patients to drive using Fog Computing", International Journal of Advance Research in Science & Engineering, Volume No 7, Special Issue No. (04), March 2018.
	Rashidah Olanrewaju, R.N.Mir, Internet of things security vulnerabilities and recommended solutions, December 2018, DOI: 10.14419/ijet.v7i4.23147
	Banka, A.A. and Naaz, R., Rethinking Audience Clustering in Sports Market using Gossip Protocol.
	Sholla, S., Mir, R.N. and Chishti, M.A., 2018. Eventuality of an Apartheid State of Things: An Ethical Perspective on the Internet of Things. International Journal of Technoethics (IJT), 9(2), pp.62-76.
	Zahoor, S. and Mir, R. (2018). Resource management in pervasive Internet of Things: A survey. Journal of King Saud University - Computer and Information Sciences.
	Sholla, S., Mir, R. and Chishti, M. (2018). Eventuality of an Apartheid State of Things. International Journal of Technoethics, 9(2), pp.62-76.
	Zahoor, S. and Mir, R.N., 2018. Virtualization and IoT resource management: A survey. International Journal of Computer Networks and Applications, 5(4), pp.43-51.