Papers for Research Studies

Sno.	Title	Date	Referencing
1.	A flow-based IDS using Machine Learning in eBPF	Submitted on 19 Feb 2021	Bachl, Maximilian, Joachim Fabini, and Tanja Zseby. "A flow-based IDS using Machine Learning in eBPF." *arXiv preprint arXiv:2102.09980* (2021).
2.	Analysis, Design, and Comparison of Machine-Learning Techniques for Networking Intrusion Detection	Accepted: 3 February 2021	Dini, P., and S. Saponara. "Analysis, Design, and Comparison of Machine-Learning Techniques for Networking Intrusion Detection. Designs 2021, 5, 9." (2021).
3.	A survey of intrusion detection from the perspective of intrusion datasets and machine learning techniques	Accepted 30 Jan 2021	Singh, Geeta, and Neelu Khare. "A survey of intrusion detection from the perspective of intrusion datasets and machine learning techniques." *International Journal of Computers and Applications* (2021): 1-11.
4.	Towards a Standard Feature Set of NIDS Datasets	Submitted on 27 Jan 2021	Sarhan, Mohanad, Siamak Layeghy, Nour Moustafa, and Marius Portmann. "Towards a Standard Feature Set of NIDS Datasets." *arXiv preprint arXiv:2101.11315* (2021).
5	A Novel Framework Design of Network Intrusion Detection Based on Machine Learning Techniques	Accepted 9 January 2021	Zhang, Chongzhen, Yanli Chen, Yang Meng, Fangming Ruan, Runze Chen, Yidan Li, and Yaru Yang. "A Novel Framework Design of Network Intrusion Detection Based on Machine Learning Techniques." *Security and Communication Networks* 2021 (2021).
6.	Unsupervised deep learning approach for network intrusion detection combining convolutional autoencoder and one-class SVM	Accepted: 7 January 2021	Binbusayyis, Adel, and Thavavel Vaiyapuri. "Unsupervised deep learning approach for network intrusion detection combining convolutional autoencoder and one-class SVM." *Applied Intelligence* (2021): 1-15.
7.	Machine learning methods for cyber security intrusion detection: Datasets and comparative study	Accepted 4 January 2021	Kilincer, Ilhan Firat, Fatih Ertam, and Abdulkadir Sengur. "Machine learning methods for cyber security intrusion detection: Datasets and comparative study." *Computer Networks* 188 (2021): 107840.
8.	A novel combinatorial optimization based feature selection method for network intrusion detection	Accepted: 26 December 2020	Nazir, Anjum, and Rizwan Ahmed Khan. "A novel combinatorial optimization based feature selection method for network intrusion detection." *Computers & Security* 102 (2021): 102164.
9.	Artificial Intelligence outflanks all other machine learning classifiers inNetwork Intrusion Detection System on the realistic cyber datasetCSE-CIC-IDS2018 using cloud computing	Date: 9 December 2020	Kanimozhi, V., and T. Prem Jacob. "Artificial Intelligence outflanks all other machine learning classifiers in Network Intrusion Detection System on the realistic cyber dataset CSE-CIC-IDS2018 using cloud computing." *ICT Express* (2020).
10.	NETWORK INTRUSION DETECTION SYSTEMS COMPARITIVE ANALYSIS USING MACHINE LEARNING	Journel volume: 2 Date: December 2020	HS, Nikhil Kumar, Mehtab Mehdi, and Karthik Srivathsa DS. "NETWORK INTRUSION DETECTION SYSTEMS COMPARITIVE ANALYSIS USING MACHINE LEARNING."
11.	Network intrusion detection system: A systematic study of machine learning and deep learning approaches	Accepted: 29 September 2020 (SURVEY PAPER)	Ahmad, Zeeshan, Adnan Shahid Khan, Cheah Wai Shiang, Johari Abdullah, and Farhan Ahmad. "Network intrusion detection system: A systematic study of machine learning and deep learning approaches." *Transactions on Emerging Telecommunications Technologies* 32, no. 1 (2021): e4150.

12.	Network intrusion detection system using supervised learning paradigm	Accepted 24 July 2020	Mebawondu, J. Olamantanmi, Olufunso D. Alowolodu, Jacob O. Mebawondu, and Adebayo O. Adetunmbi. "Network intrusion detection system using supervised learning paradigm." *Scientific African* 9 (2020): e00497.
13.	Deep learning methods in network intrusion detection: A survey and an objective comparison	Accepted 7 July 2020	Gamage, Sunanda, and Jagath Samarabandu. "Deep learning methods in network intrusion detection: A survey and an objective comparison." *Journal of Network and Computer Applications* 169 (2020): 102767.
14.	Performance analysis of flow-based attacks detection on CSE-CIC-IDS2018 dataset using deep learning	Dated: June 20, 2020	Farhan, Rawaa Ismael, Abeer Tariq Maolood, and NidaaFlaih Hassan. "Performance analysis of flow-based attacks detection on CSE-CIC-IDS2018 dataset using deep learning." *Indonesian Journal of Electrical Engineering and Computer Science* 20, no. 3 (2020): 1413-1418.
15.	An intrusion detection system for packet and flow based networks using deep neural network approach	Accepted Apr26, 2020	Farhana, Kaniz, Maqsudur Rahman, and Md Ahmed. "An intrusion detection system for packet and flow based networks using deep neural network approach." *International Journal of Electrical & Computer Engineering (2088-8708)* 10, no. 5 (2020).
16.	Building an efficient intrusion detection system based on feature selection and ensemble classifier	Accepted 28 March 2020	Zhou, Yuyang, Guang Cheng, Shanqing Jiang, and Mian Dai. "Building an efficient intrusion detection system based on feature selection and ensemble classifier." *Computer Networks* 174 (2020): 107247.
17.	A survey and analysis of intrusion detection models based on CSE-CIC-IDS2018 Big DataDate: 2020Florida Atlantic University, USA	DataDate: 2020	Leevy, Joffrey L., and Taghi M. Khoshgoftaar. "A survey and analysis of intrusion detection models based on CSE-CIC-IDS2018 Big Data." *Journal of Big Data* 7, no. 1 (2020): 1-19.
18.	Empirical study on multiclass classification-based network intrusion detection	Accepted: 26 April 2019	Elmasry, Wisam, Akhan Akbulut, and Abdul Halim Zaim. "Empirical study on multiclass classification-based network intrusion detection." *Computational Intelligence* 35, no. 4 (2019): 919-954.
19.	A Review of the Advancement in Intrusion Detection Datasets	Date: 2019	Thakkar, Ankit, and Ritika Lohiya. "A review of the advancement in intrusion detection datasets." *Procedia Computer Science* 167 (2020): 636-645.
20.	A Review of Machine Learning Methodologies for Network Intrusion Detection	Date: 2019	Phadke, Aditya, Mohit Kulkarni, Pranav Bhawalkar, and Rashmi Bhattad. "A Review of Machine Learning Methodologies for Network Intrusion Detection." In *2019 3rd International Conference on Computing Methodologies and Communication (ICCMC)*, pp. 272-275. IEEE, 2019.
21.	DDoS Intrusion Detection through Machine Learning Ensemble	Dated: 2019	Das, Saikat, Ahmed M. Mahfouz, Deepak Venugopal, and Sajjan Shiva. "DDoS intrusion detection through machine learning ensemble." In *2019 IEEE 19th international conference on software Quality, Reliability and Security Companion (QRS-C)*, pp. 471-477. IEEE, 2019.

22.	Evaluation of Network Intrusion Detection with Features Selection and Machine Learning Algorithms on CICIDS-2017 Dataset	Dated: 2019	Singh Panwar, Shailesh, Y. P. Raiwani, and Lokesh Singh Panwar. "Evaluation of network intrusion detection with features selection and machine learning algorithms on CICIDS-2017 dataset." In *International Conference on Advances in Engineering Science Management & Technology (ICAESMT)-2019, Uttaranchal University, Dehradun, India*. 2019.
23.	Using Long-Short-Term Memory BasedConvolutional Neural Networks forNetwork Intrusion Detection	Dated 2018	Hsu, Chia-Ming, He-Yen Hsieh, Setya Widyawan Prakosa, Muhammad Zulfan Azhari, and Jenq-Shiou Leu. "Using long-short-term memory based convolutional neural networks for network intrusion detection." In *International wireless internet conference*, pp. 86-94. Springer, Cham, 2018.
24.	Intensive Pre-Processing of KDD Cup 99 for Network Intrusion Classification Using Machine Learning Techniques	Dated 2019	Obeidat, Ibrahim, Nabhan Hamadneh, Mouhammd Alkasassbeh, Mohammad Almseidin, and Mazen AlZubi. "Intensive pre-processing of kdd cup 99 for network intrusion classification using machine learning techniques." (2019): 70-84.
25.	Network Intrusion Detection System Using Machine Learning	Date: December, 2018	Jamadar, Riyazahmed A. "Network intrusion detection system using machine learning." *Indian Journal of Science and Technology* 7, no. 48 (2018): 1-6.
26.	On evaluation of Network Intrusion Detection Systems: Statistical analysis of CIDDS-001 dataset using Machine Learning Techniques	Dated 2018	Verma, Abhishek, and Virender Ranga. "On evaluation of network intrusion detection systems: Statistical analysis of CIDDS-001 dataset using machine learning techniques." *Pertanika Journal of Science & Technology* 26, no. 3 (2018): 1307-1332.
27.	Evaluating Effectiveness of Shallow and DeepNetworks to Intrusion Detection System	Dated: 2017	Vinayakumar, R., K. P. Soman, and Prabaharan Poornachandran. "Evaluating effectiveness of shallow and deep networks to intrusion detection system." In *2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, pp. 1282-1289. IEEE, 2017.
28.	Network Intrusion DetectionwithFeature Selection Techniquesusing Machine-Learning Algorithms	Date: September 2016	Kumar, Koushal, and Jaspreet Singh Batth. "Network intrusion detection with feature selection techniques using machine-learning algorithms." *International Journal of Computer Applications* 150, no. 12 (2016).
29.	Network Intrusion Detection Using Machine Learning	Date: 2016	Chowdhury, Md Nasimuzzaman, Ken Ferens, and Mike Ferens. "Network intrusion detection using machine learning." In *Proceedings of the International Conference on Security and Management (SAM)*, p. 30. The Steering Committee of The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp), 2016.
30.	A Deep Learning Approach for Network Intrusion DetectionSystem	Date: 2016	Javaid, Ahmad, Quamar Niyaz, Weiqing Sun, and Mansoor Alam. "A deep learning approach for network intrusion detection system." In *Proceedings of the 9th EAI International Conference on Bio-inspired Information and Communications Technologies (formerly BIONETICS)*, pp. 21-26. 2016.

31.	Survey on Intrusion Detection System using Machine Learning Techniques	Date: 2013	Wagh, Sharmila Kishor, Vinod K. Pachghare, and Satish R. Kolhe. "Survey on intrusion detection system using machine learning techniques." *International Journal of Computer Applications* 78, no. 16 (2013).
32.	Network intrusion detection system: A machine learning approach	Date: 2011	Panda, Mrutyunjaya, Ajith Abraham, Swagatam Das, and Manas Ranjan Patra. "Network intrusion detection system: A machine learning approach." *Intelligent Decision Technologies* 5, no. 4 (2011): 347-356.
33.	Comparison of Machine Learning Algorithms Performance in Detecting Network Intrusion	Date:2010	Abd Jalil, Kamarularifin, Muhammad Hilmi Kamarudin, and Mohamad Noorman Masrek. "Comparison of machine learning algorithms performance in detecting network intrusion." In *2010 international conference on networking and information technology*, pp. 221-226. IEEE, 2010.