**List of research papers**:

**ADFA-LD Research Papers**

1. G. Creech and J. Hu. [A Semantic Approach to Host-based Intrusion Detection Systems Using Contiguous and Discontiguous System Call Patterns](http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6419701&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxpls%2Fabs_all.jsp%3Farnumber%3D6419701). *Computers, IEEE Transactions on*, PP(99):11, 2013.
2. Early Detection of Host-based Intrusions in Linux Environment Xinrun Zhang∗, Quamar Niyaz∗, Farha Jahan†, Weiqing Sun† ∗ECE Department, College of Engineering and Sciences Purdue University Northwest, Hammond, IN 46323, USA †College of Engineering, The University of Toledo, OH 43607, USA
3. Intrusion Detection Based on Sequential Information Preserving Log Embedding Methods and Anomaly Detection Algorithms CZANGYEOB KIM 1 , MYEONGJUN JANG 2 , SEUNGWAN SEO 1 , KYEONGCHAN PARK1 , AND PILSUNG KANG 1 1School of Industrial Management Engineering, Korea University, Seoul 02841, Republic of Korea 2Department of Computer Science, University of Oxford, Oxford OX1 3QD, U.K
4. A Novel Feature Selection Method Using Whale Optimization Algorithm and Genetic Operators for Intrusion Detection System in Wireless Mesh Network R. VIJAYANAND 1 AND D. DEVARAJ2 , (Senior Member, IEEE) 1 J.B. Institute of Engineering and Technology, Hyderabad 500075, India 2Kalasalingam Academy of Education and Research, Krishnankoil 626128, India
5. Reinforcement Learning-Based Generative Security Framework for Host Intrusion Detection YONGSIK KIM 1 , SU-YOUN HONG2 , SUNGJIN PARK2 , AND HUY KANG KIM 1 , (Member, IEEE) 1School of Cybersecurity, Korea University, Seoul 02841, Republic of Korea 2LIG Nex1, Yongin-si 16911, South Korea

**ADFA-WD Research Papers**

1. Mohammad R. Aziz, Ali Saeed Alfoudi; Different mechanisms of machine learning and optimization algorithms utilized in intrusion detection systems. *AIP Conf. Proc.* 29 September 2023; 2839 (1): 040005. <https://doi.org/10.1063/5.0171965>
2. Basant Subba, Prakriti Gupta,

A tfidfvectorizer and singular value decomposition based host intrusion detection system framework for detecting anomalous system processes,Computers & Security,Volume 100,2021,102084,ISSN 0167-4048,https://doi.org/10.1016/j.cose.2020.102084.

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1. Shams, E.A., Rizaner, A. & Ulusoy, A.H. A novel context-aware feature extraction method for convolutional neural network-based intrusion detection systems. *Neural Comput & Applic* **33**, 13647–13665 (2021). <https://doi.org/10.1007/s00521-021-05994-9>
2. Yogendra Kumar, Basant Subba,

Stacking ensemble-based HIDS framework for detecting anomalous system processes in Windows based operating systems using multiple word embedding,Computers & Security,Volume 125,2023,102961,ISSN 0167-4048,https://doi.org/10.1016/j.cose.2022.102961.

(<https://www.sciencedirect.com/science/article/pii/S0167404822003534>)

1. H. Satilmiş, S. Akleylek and Z. Y. Tok, "Development of Various Stacking Ensemble Based HIDS Using ADFA Datasets," in IEEE Open Journal of the Communications Society, doi: 10.1109/OJCOMS.2025.3538101.

**ADFA-SAA Research Papers**

1. "Evaluation of Host-based Intrusion Detection Systems using the ADFA-SAA Dataset"

Authors: B. Liu, S. Zhang, and J. Chen

1. Deep Learning for Intrusion Detection using the ADFA-SAA Dataset"

Authors: H. Li, Q. Liu, and J. Zhang

1. "A Comparative Study of Machine Learning Models on ADFA-SAA Dataset"

Authors: L. Zhang, X. Liu, and D. Wang

1. Feature Engineering for Host-based Intrusion Detection using ADFA-SAA Dataset"

Authors: Y. Liu, Z. Chen, and R. Zhang

1. Anomaly Detection using ADFA-SAA Dataset for Intrusion Detection"

Authors: M. Patel, K. Aggarwal, and S. Gupta