



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in>)

Patent Search

Invention Title	MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE TECHNIQUES FOR INTRUSION DETECTION IN NETWORK SECURITY
Publication Number	06/2023
Publication Date	10/02/2023
Publication Type	INA
Application Number	202341006900
Application Filing Date	03/02/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0020000000, G06N0003080000, G06K0009620000, G06T0007000000, G06N0007000000

Inventor

Name	Address	Country
Dr. Thota Sravanti	Associate Professor, Department of Electronics and Communication Engineering, Pallavi Engineering College, Kuntloor, Hyderabad – 501505, Telangana, India	India
Mr. Addagatla Prashanth	Assistant Professor, Department of Electronics and Communication Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad – 500043, Telangana, India	India
Dr. Raja Suresh Kumar Pitla	Librarian Malla Reddy Institute of Technology and Science Maisammaguda, Secunderabad, Telanagana – 500100, India	India
Dr. Ramakrishna Kona	Assistant Librarian, GITAM School Physiotherapy, Knowledge Resource Centre, Gandhi Institute of Technology and Management, Deemed to be University, Visakhapatnam, AP, India -530045	India
Dr. A Ugendhar	Associate Professor, Department of Computer Science and Engineering, Guru Nanak Institutions Technical Campus, Ibrahimpatnam, Hyderabad - 501506, Telangana, India	India
Dr. Y. Jaipal Reddy	Assistant Professor, Department of Electronics and Communication Engineering, Narasaraopeta Engineering College, Narasaraopeta, Palnadu, Andhra Pradesh, India, 522601	India
Mr. K. Nagaraja	Research Scholler Department of School of Electrical Science, Indian institute of technology, Bhubaneshwar, Argul, Khordha, Odisha – 752050, India	India
Mr. Narasaiah Gallamalla	Assistant Professor, Department of Computer Science and Engineering, Marri Laxman Reddy Institute of Technology and Management, Dundigal, Hyderabad - 500043, Telangana, India	India
Dr. Sukanya K	Associate Professor, Department of Electronics and Communication Engineering, TKR college of Engineering and Technology, Meerpet, Telangana, India – 500097	India
Dr. S. Sivasankara Rao	Associate Professor, Department of Masters in business Administration, Pallavi Engineering College, Kuntloor, Hyderabad – 501505, Telangana, India	India

Applicant

Name	Address	Country
Dr. Thota Sravanti	Associate Professor, Department of Electronics and Communication Engineering, Pallavi Engineering College, Kuntloor, Hyderabad – 501505, Telangana, India	India
Mr. Addagatla Prashanth	Assistant Professor, Department of Electronics and Communication Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad – 500043, Telangana, India	India
Dr. Raja Suresh Kumar Pitla	Librarian Malla Reddy Institute of Technology and Science Maisammaguda, Secunderabad, Telangana – 500100, India	India
Dr. Ramakrishna Kona	Assistant Librarian, GITAM School Physiotherapy, Knowledge Resource Centre, Gandhi Institute of Technology and Management, Deemed to be University, Visakhapatnam, AP, India -530045	India
Dr. A Ugendhar	Associate Professor, Department of Computer Science and Engineering, Guru Nanak Institutions Technical Campus, Ibrahimpatnam, Hyderabad – 501506, Telangana, India	India
Dr. Y. Jaipal Reddy	Assistant Professor, Department of Electronics and Communication Engineering, Narasaraopeta Engineering College, Narasaraopeta, Palnadu, Andhra Pradesh, India, 522601	India
Mr. K. Nagaraja	Research Scholler Department of School of Electrical Science, Indian institute of technology, Bhubaneshwar, Argul, Khordha, Odisha – 752050, India	India
Mr. Narasaiah Gallamalla	Assistant Professor, Department of Computer Science and Engineering, Marri Laxman Reddy Institute of Technology and Management, Dundigal, Hyderabad - 500043, Telangana, India	India
Dr. Sukanya K	Associate Professor, Department of Electronics and Communication Engineering, TKR college of Engineering and Technology, Meerpet, Telangana, India – 500097	India
Dr. S. Sivasankara Rao	Associate Professor, Department of Masters in business Administration, Pallavi Engineering College, Kuntloor, Hyderabad – 501505, Telangana, India	India

Abstract:

Intrusion Detection Systems are increasingly a key part of systems defense. Various approaches to Intrusion Detection are currently being used, but they are relative. Artificial Intelligence plays a driving role in security services. This paper proposes a dynamic model Intelligent Intrusion Detection System, based on specific AI approach intrusion detection. The techniques that are being investigated includes neural networks and fuzzy logic with network profiling, that uses simple data mining technique process the network data. Based on our study of recent research we have highlighted the latest techniques of NIDS using ML techniques and approaches, the comm that they can detect, and their issues. The purpose of this study is to share the collected information in a way that is more comprehensive and can provide an overview current standing of ML-based NIDS.

Complete Specification

We Claim:

1. Machine Learning and Artificial Intelligence Techniques for Intrusion Detection in Network Security claims the framework used in this artificial Intelligence base not on GPU, the optimization can be powerfully tuned by other such frameworks like Google's open sourced Tensor Flow.
2. The performance issue is a common task when we come across pandas to work with larger data (100 GB to multiple terabytes), but Spark, an open-sourced Apache Framework used for big data processing can handle parallel computing with massive datasets, ranging from 100 GB to multiple terabytes across clustered compute.
3. This survey is complementary to other existing surveys on intrusion detection and will serve as a supplement to other surveys.
4. It will also serve as ready reference to researchers working on intrusion detection using ML techniques.

[View Application Status](#)



**Department of Industrial
Policy and Promotion**
Government of India

Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)
Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)
Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)
Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019