Intelligent Home Surveillance System using Convolution Neural Network **Algorithms**

Publisher: IEEE

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R. Sathya; V.C. Bharathi; S. Ananthi; K. Vaidehi; S. Sangeetha

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Abstract:

The creation of an automated security system aims to protect residences and workplaces by automating visitor entrance and enabling more flexibility in visitor record maintenance. Among all biometric authentications, face recognition is very secure because of unique facial features. There are two phases in authentication, face mask detection and face recognition. In first phase, Grassmann algorithm is used for face mask detection. If any

Abstract **Document Sections** Introduction

Conference Paper

A Machine Learning and Deep Learning based Approach to Generate a Speech Emotion Recognition System

February 2024

DOI:10.23919/INDIACom61295.2024.10498783

Conference: 2024 11th International Conference on Computing for Sustainable Global

Development (INDIACom)

Authors:



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Stanley College of Engineering and Tech...



Dr.K. Vaidehi

Stanley College of Engineering and Tech...



Qamar Nisha



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Text Views



Document Sections

II. Existing Approaches

- Introduction

- III. Proposed
- - Methodology

The most common and general medium via which we humans convey or communicate our thoughts, emotions, feelings or ideas artlessly is by speech or articulation. Blending of this artless way of speech with the technological advancements of AI, has given rise to the importance of building emotion recognition systems from speech today. Even more, the speech/articulation emotion recognition system presented here is also to contribute in and facilitate various emerging applications of today like, in detecting persons' physiological state (as in lie detectors), also be used in forensics, medicine. The proposed work identifies/associates an appropriate label/emotion for the respective emotion from speech presented in the form of an audio file (.wav format). About 4240 audio samples are taken. 1440, 2800 samples from RAVDESS and TESS datasets are

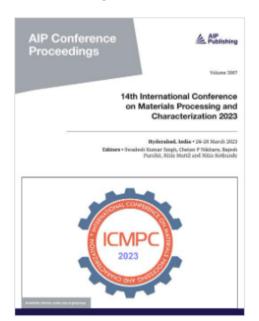


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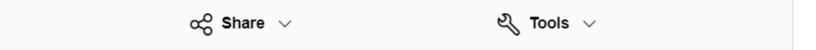
Emotion recognition using multi-modal features and CNN classification ≒

Saba Noor Ayesha Khanum ➡; Upendra Kumar Mummadi; Fahmina Taranum; Syed Shabbeer Ahmad; Imtiyaz Khan; D. Shravani

+ Author & Article Information

AIP Conf. Proc. 3007, 030001 (2024)

https://doi.org/10.1063/5.0192751



An emerging use of artificial intelligence is automatic emotion recognition. Facial expression identification is an intriguing and challenging problem in computer vision. In data science, one of the most difficult problems is speech emotion recognition. The technology that has been built consists of two stages: the first involves real-time facial and speech capture and the second is categorizing of emotions. Data collection, data analysis, and data visualization are the stages of automated emotion identification. Convolution neural networks are used in the proposed multimodal system to identify

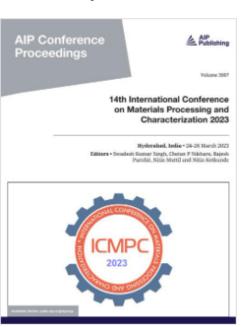


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RESEARCH ARTICLE | FEBRUARY 20 2024

Phishing website detection using ensemble learning models



Needa Iffath ☑; Upendra Kumar Mummadi; Fahmina Taranum; Syed Shabbeer Ahmad; Imtiyaz Khan; D. Shravani

+ Author & Article Information

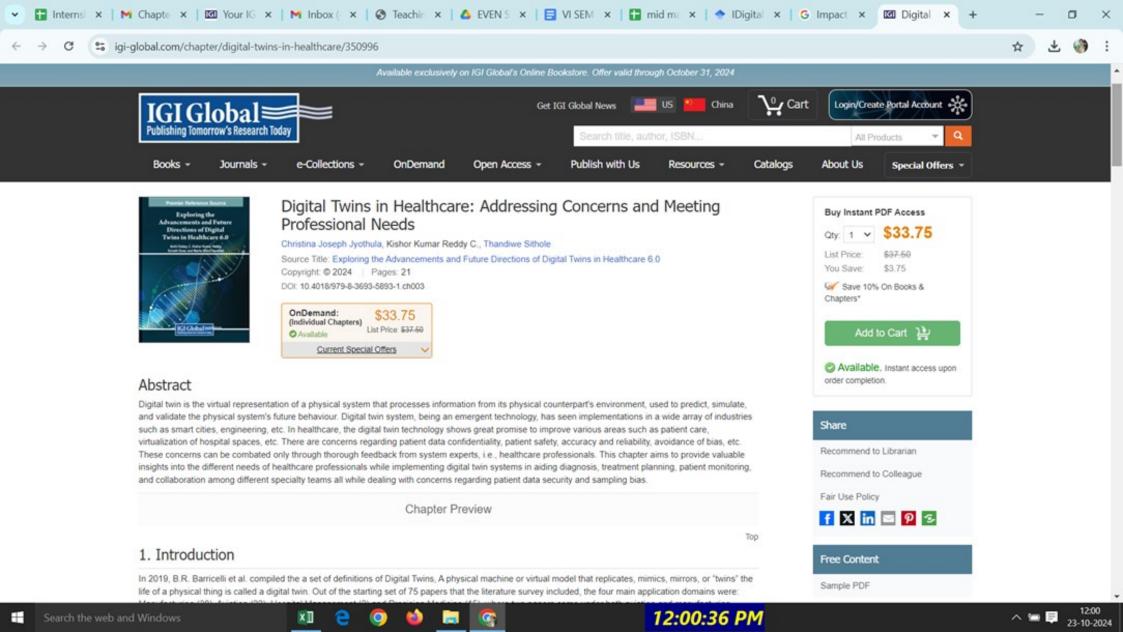
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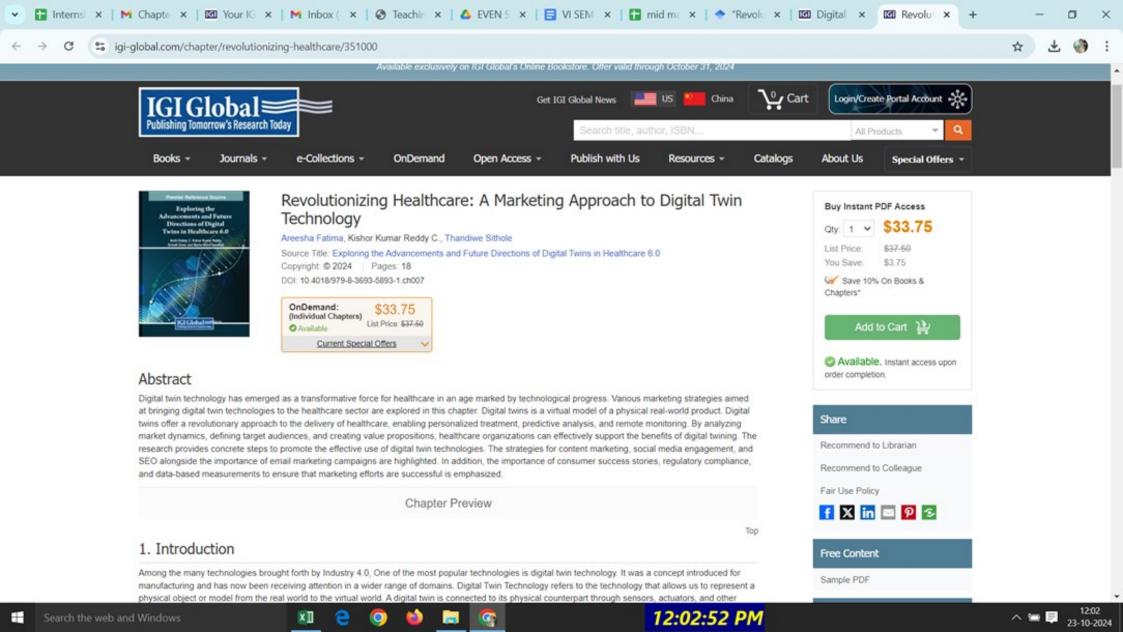
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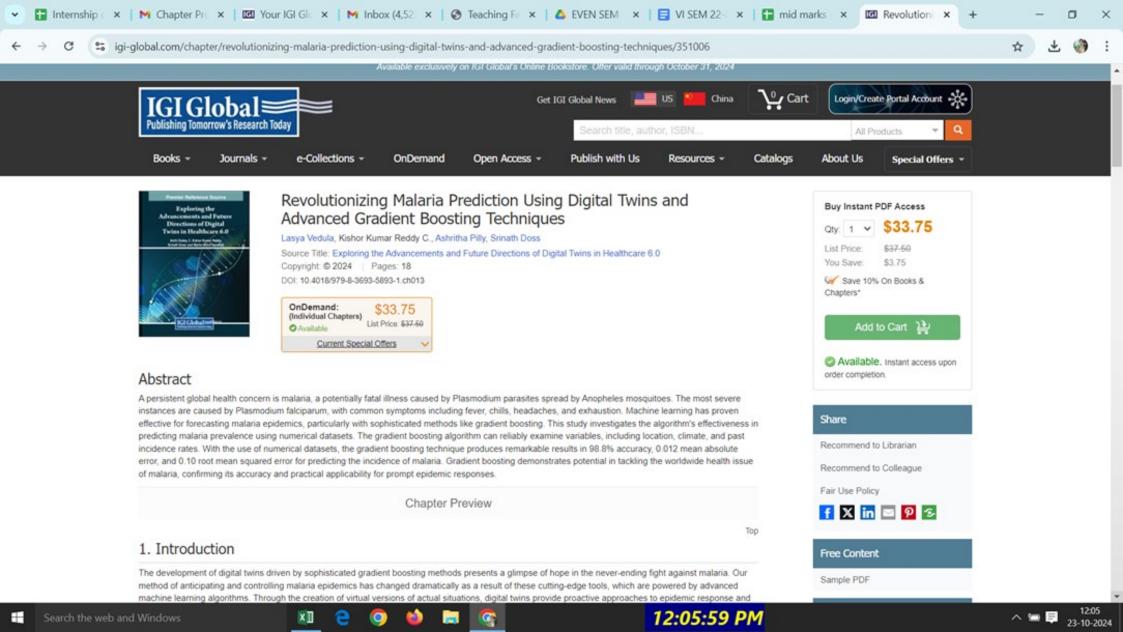
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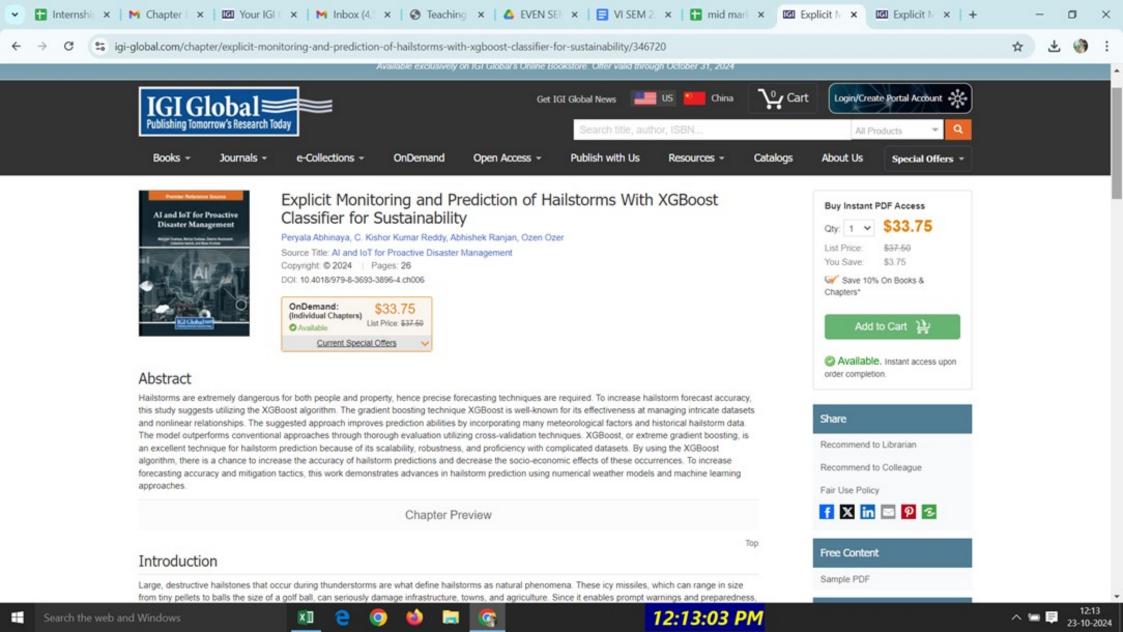
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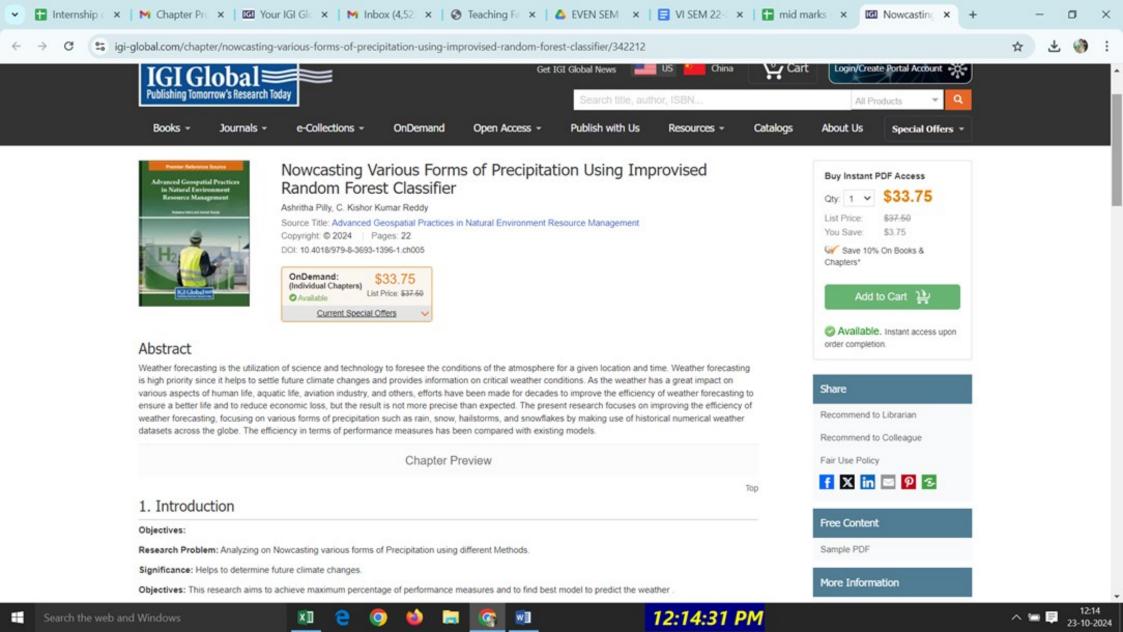
A malicious website, often known as a malicious URL, is a platform considering hosting unwanted content including spam, harmful advertisements, and dangerous websites. It is crucial towards quickly identify dangerous URLs. Blacklisting, regular expression, & signature matching techniques have all been employed in earlier investigations. These methods are utterly useless considering identifying new URLs, malicious URL variants, or URLs that have never been seen before. Machine learning-based solution that has been suggested can help towards solve this problem. Considering this kind about solution, in-depth study about feature engineering & feature representation about security artifact types, such as URLs, is necessary. Additionally, resources considering feature engineering & feature representation must be continuously improved towards support variations











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Dactylology Prediction Using Convolution Neural Networks

C. Kishor Kumar Reddy, Sahithi Reddy Pullannagari, Srinath Doss, P. R. Anisha

Source Title: Fostering Cross-Industry Sustainability With Intelligent Technologies

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Abstract

Dactylology is a technique used by individuals who are deaf or heard of hearing to communicate by making signs with their fingers, particularly in manual alphabets. The goal of this project is to create a functional, real-time American Sign Language (ASL) recognition system using vision-based methods through finger spelling gestures and provide real-time text or speech outputs for individuals who are deaf and mute. A convolution neural network (CNN) algorithm has been employed. A major benefit of CNNs is their ability to perform image classification with minimal pre-processing when compared to other algorithms. Unlike other approaches that use manually designed filters, CNNs learn these filters automatically through training. By properly displaying the ASL symbols and ensuring adequate lighting without background noise, the system was able to detect nearly all of the symbols accurately. The proposed methodology achieved an accuracy of 94.8% for the 26 letters of the alphabet.

Chapter Preview

Top

1. Introduction

Dactylology communication is a visual-spatial language used by hard of hearing and deaf individuals to impart. Since various gesture-based communications are used in various nations and locales, it's anything but a general language. For instance, Spanish sign language in used in Spain, BSL in the United Kingdom, and Auglan is used in Augtralia. In this name, we simed to feeter a framework that can appear up the design a communication through signing and give tout or

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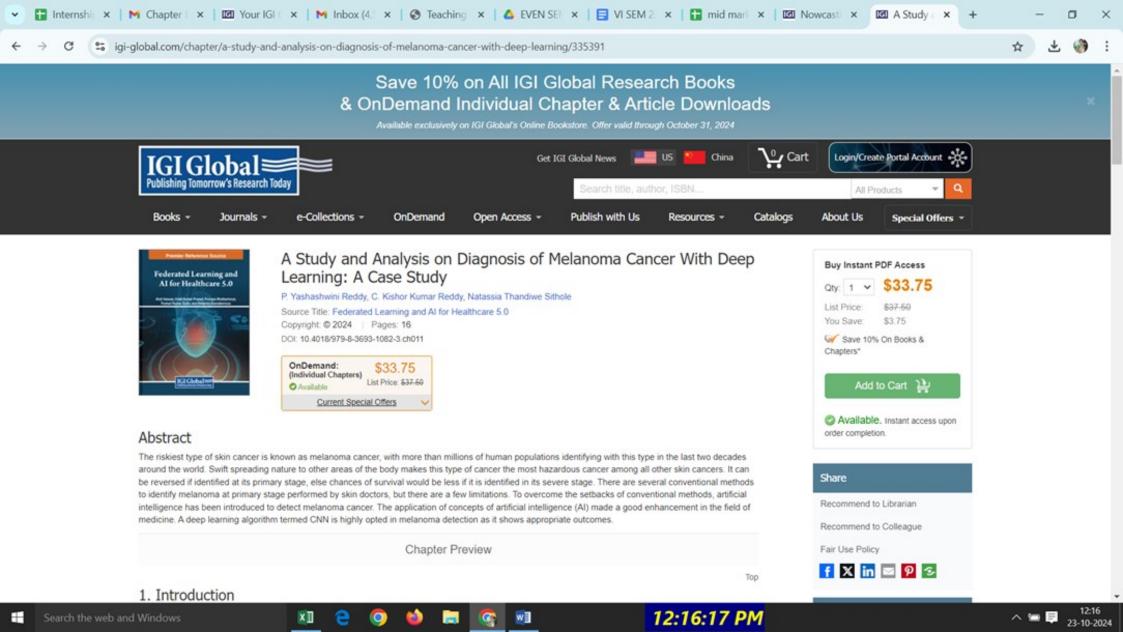






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An Efficient Early Diagnosis and Healthcare Monitoring System for Mental Disorders Using Machine Learning



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Abstract

Recently, the increase in internal health problems in society has led to an increase in research on the development of mechanistic capacity models to detect or predict internal mental health. The effective use of internal health assessments or discovery models allows internal health interpreters to redefine internal suffering more objectively than ever before, and in the early stages when interventions may be more effective. In this chapter, the authors aim to apply a bias mitigation system based on multitasking literacy to perform a fairness analysis and to fear the predicted model using the Reddit dataset. This chapter employs an efficient technique for machine learning random forests. The proposed model was evaluated against various performance metrics and the model showed 91.00% accuracy. This is an advantage compared to existing approaches.



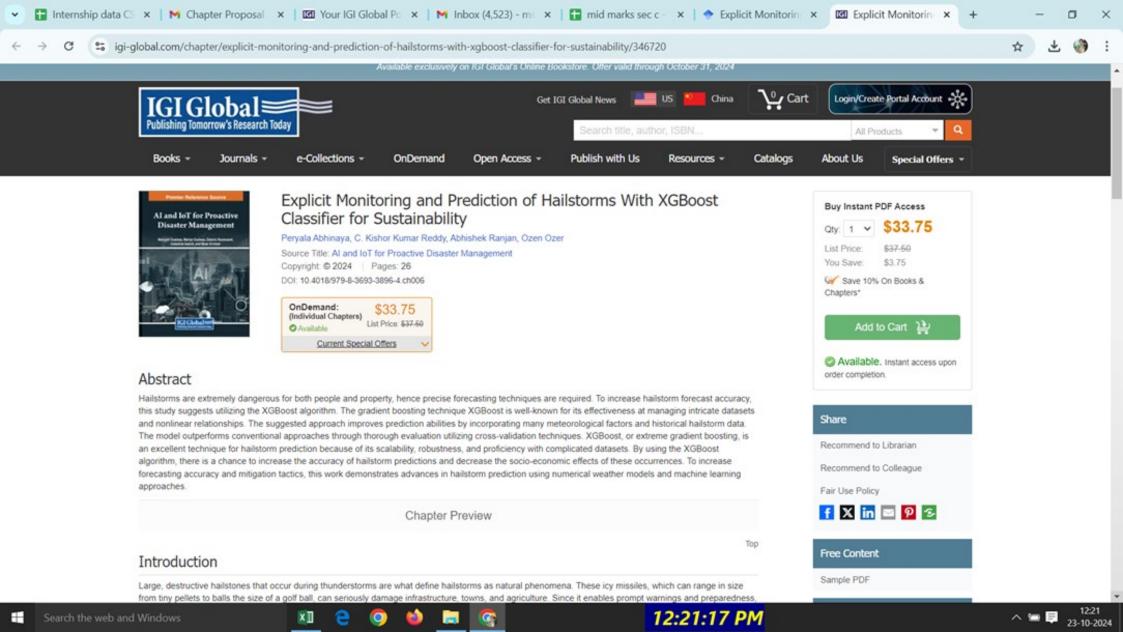
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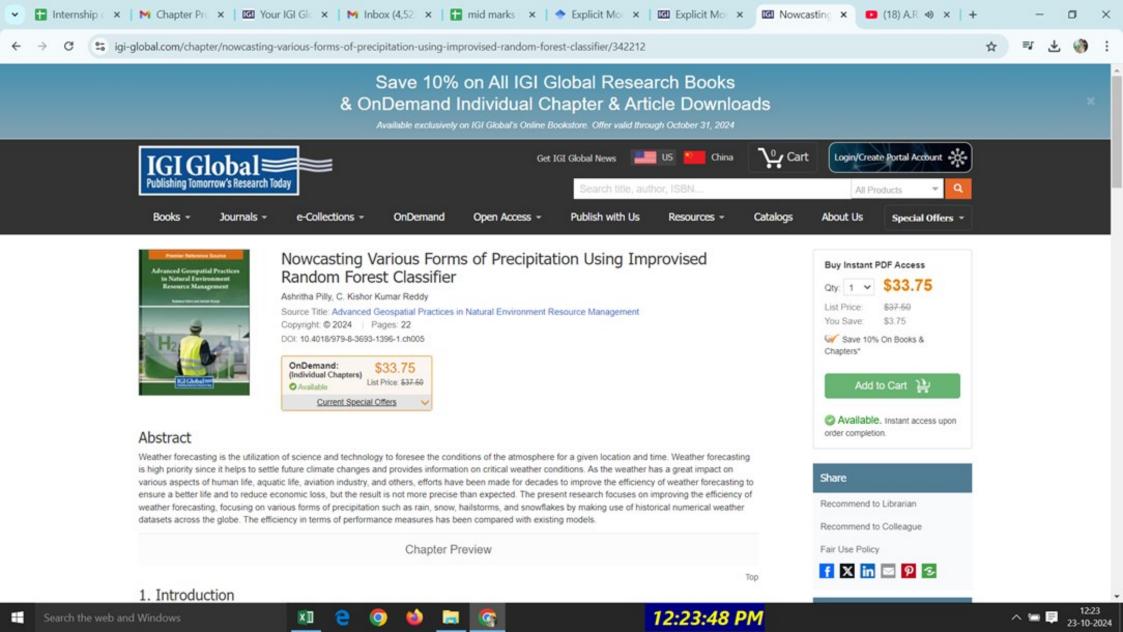


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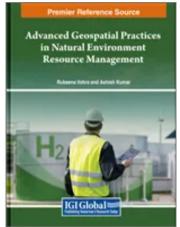
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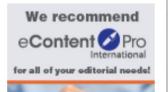
Weather forecasting is the utilization of science and technology to foresee the conditions of the atmosphere for a given location and time. Weather forecasting is high priority since it helps to settle future climate changes and provides information on critical weather conditions. As the weather has a great impact on various aspects of human life, aquatic life, aviation industry, and others, efforts have been made for decades to improve the efficiency of weather forecasting to ensure a better life and to reduce economic loss, but the result is not more precise than expected. The present research focuses on improving the efficiency of weather forecasting, focusing on various forms of precipitation such as rain, snow, hailstorms, and



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Dactylology Prediction Using Convolution Neural Networks



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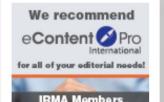
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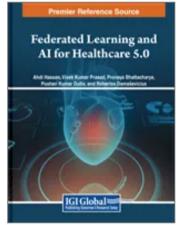
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The riskiest type of skin cancer is known as melanoma cancer, with more than millions of human populations identifying with this type in the last two decades around the world. Swift spreading nature to other areas of the body makes this type of cancer the most hazardous cancer among all other skin cancers. It can be reversed if identified at its primary stage, else chances of survival would be less if it is identified in its severe stage. There are several

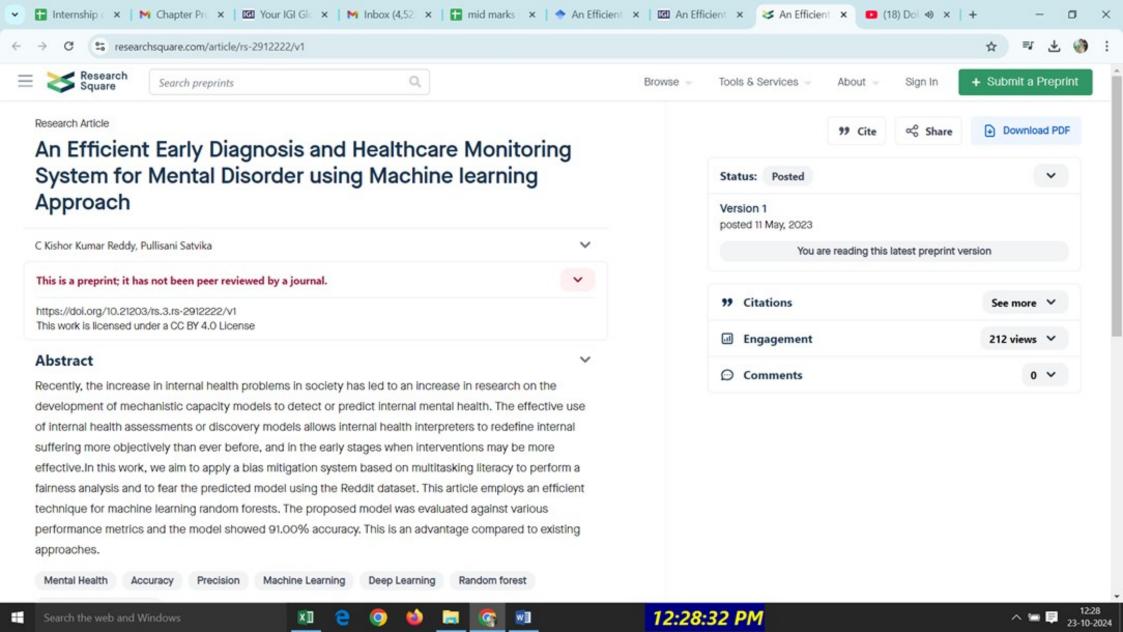


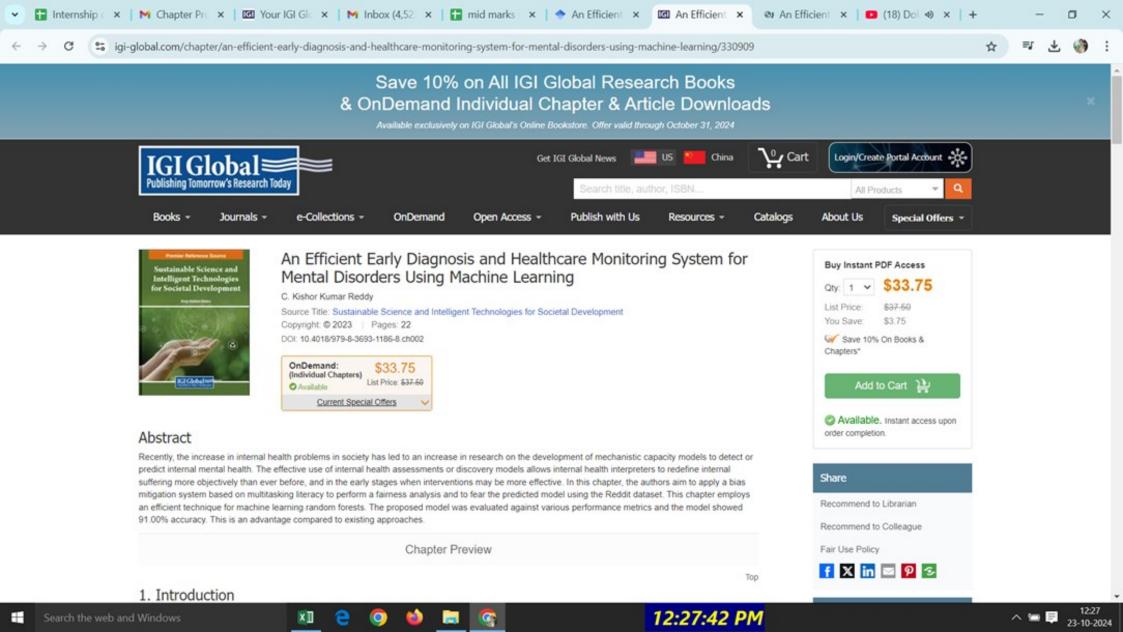
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Abstract

Psychological health issues like stress, anxiety and depression is becoming general due to various factors. Different severity levels of stress, anxiety and depression have varied impacts on people, which can lead to suicidal ideation and suicide attempts. Demographic data consists of gender, age group, marital status, education, type of employment, economic status, and living status, and 21 questions about stress, anxiety, and depression, including scores, were considered for the dataset. The proposed K-nearest neighbor model achieved maximum accuracy with 94.5% for stress and anxiety and 97.7% for depression, compared with Naive

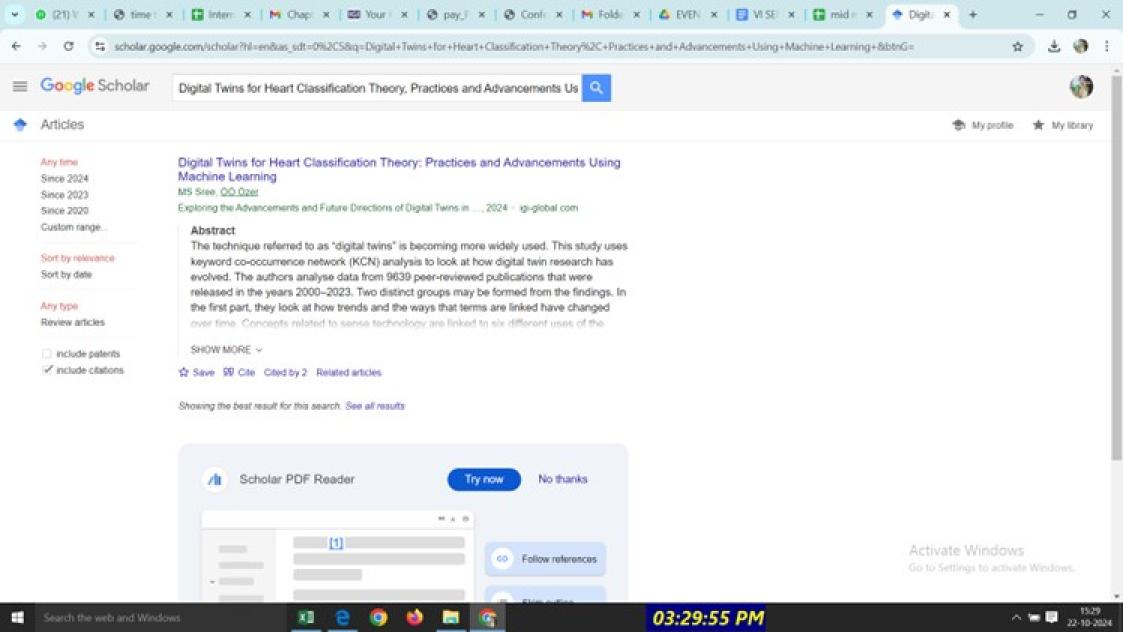


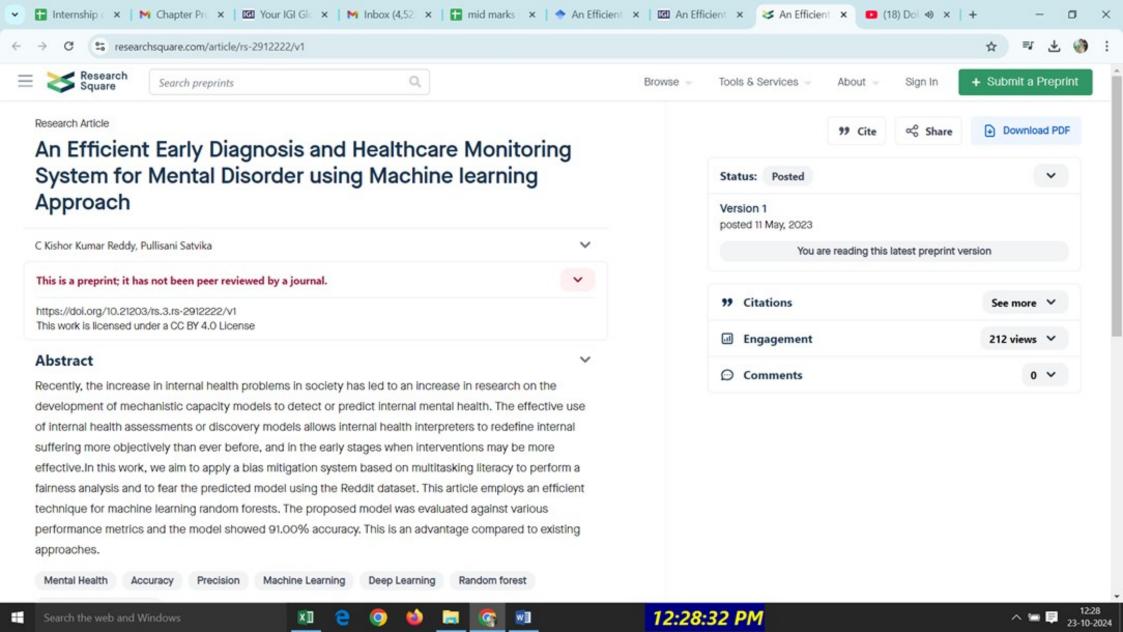
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Publication Date: 25-February-2024

Publication Date: 30-April-2024

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TOWARDS 6G: WIRELESS COMMUNICATION

Abstract

The Development of 5G Wireless system is continuously exposing the inherent limitations, in this situation 6G are expected to offer performance advanced to 5G. A survey on Wireless evolution towards beyond 5G (B5G) and 6G communication networks are discussed in this paper. Moreover, we outline the vision and challenges associated with 6G.

Keywords: 5G, Wireless system, 6G

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I. INTRODUCTION

Wireless 5G communications era is being launched, with many integrated applications. However, 5G specs like latency, data rate, reliability meager the needs of upcoming technologies forcefully. To meet these challenging demands, studies are mainly looking on beyond 5G networks (B5G) called 6G technology empowering emerging new applications and different technologies. It is anticipated that the majority of the functionality found in 5G systems today would be kept and improved in 6G systems.

In the rest of paper, the vision and challenges of 6G described in section-II, Section III: ExploreEmerging technologies for 6G, Section IV gives a 6G services and use cases, V section about Issues for 6G, finally, we conclude this article in Section VI.

II. VISION AND CHALLENGES

1. Vision: 6G is going be one of key enabler to associate everything, gives broader coverage integrating all functions, that include detecting, caching, communicating, positioning, routing, imaging, computing, control, radar, a self-ruling environment with intelligence like humans and consciousness. It helps automatic systems which uses AI. The 6G technology helps information society which 5G technology cannot. 5G technology has to be updated to 6G. The 6G technology vision [1] can be summarized using four key concepts: "Intelligent Connectivity," "Deep Connectivity," "Holographic Connectivity," and "Ubiquitous Connectivity." Deep connectivity envisions profound sensing, deep learning, and deep cognition, including concepts like telepathy and mind-to-mind communication. Holographic connectivity involves holographic communication and high-fidelity Augmented/Virtual Reality (AR/VR) experiences with seamless coverage accessible anytime and anywhere. Ubiquitous Connectivity entails three-dimensional coverage and integration of Space-Air-Ground-Sea communication.

2. Requirements and Challenges:

Table1: Key capabilities and Network features of 6G

Characteristics	6G
	FeMBB
Usage Scenarios	ERLLC
Usage Scenarios	umMTC
	LDHMC and ELPC
Peak Data Rate	1TB/s
Experienced Data Rate	1 GB/s
Spectrum Efficiency	5–10x that of 5G
Network Energy	10–100x that of 5G
Efficiency	
Traffic Capacity	1 Gb/s/m^2
Connectivity Density	10 ⁷ Devices/km ²
Mobility	1,000 km/h
Latency	10- 100 s





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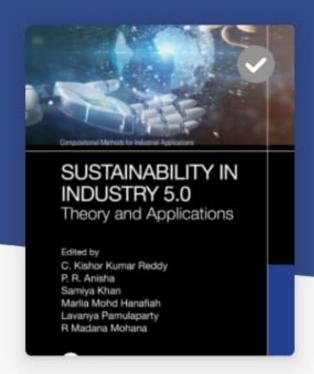
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Sustainability in Industry 5.0



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Transfer Learning Based Bi-GRU for Intrusion Detection System in Cloud Computing

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Abstract

Information security is significantly impacted by intrusion detection systems (IDS), which are considered as a critical security concern in the field of cloud computing (CC). In this study, deep feature guided optimized bidirectional Gated Recurrent Unit (Bi-GRU) neural network based transfer learning (TL) technique is proposed for enhancing cloud security. Initially, the min-max normalization process is performed on input traffic data. Further, the pre-trained-residual neural networks (ResNet) is employed as a deep feature extractor to convert the normalized high dimensional traffic data into low dimensional high sensitive data. Finally, the deep learning (DL) model, Bi-GRU neural network based TL with an artificial hummingbird algorithm (AHO) based bio-inspired algorithm is used to recognize the attack classes. The hyper parameter tuning of Bi-GRU is achieved by AHO based optimization process. The proposed model will be calculated based on some evaluation metrics for UNSW-NB15 dataset, and NSL-KDD dataset. The metrics such as accuracy, recall, false alarm rate (FAR) and precision are the performance measured for proposed method and its efficacy is analysed to describe the superiority. Finally, the attacks found in the cloud are correctly classified with accuracy of 0.992 on NSL-KDD dataset.

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Abstract

The domain of stock market price forecasting has experienced a significant transformation with the integration of sentiment analysis methods. This study explores the application of the XGBoost algorithm, a robust gradient boosting technique, in the context of stock price prediction enhanced by sentiment analysis. The research leverages historical stock market data and sentiment data from diverse textual sources, including news articles, social media, and financial reports. It encompasses data preprocessing, sentiment analysis, and the integration of sentiment scores with stock data, which serves as the feature set for the XGBoost model. Hyperparameter tuning and cross-validation are used to enhance the model's performance with rigorous evaluation metrics providing insight into its predictive accuracy. The XGBoost algorithm, known for its versatility and predictive power, is revealed as a potent tool in forecasting stock prices, offering the potential for more informed investment decisions. This study serves as an exploration of the fusion between cutting-edge machine learning and the financial world, shedding light on the evolving landscape of stock market price prediction and the substantial role of sentiment analysis coupled with XGBoost in enhancing prediction accuracy.

Protecting the Privacy of IoMT-Based Health Records Using Blockchain Technology

Conference paper | First Online: 29 November 2023 pp 409-423 | Citethis conference paper

T. C. Swetha Priya 🗹 & R. Sridevi

Part of the book series: Lecture Notes in Networks and Systems ((LNNS, volume 738))

Included in the following conference series:
International Conference on Network Security and Blockchain Technology

127 Accesses

Abstract

Internet of medical things (IoMT) has become one of the revolutionary technology nowadays due to wide spread use of IoT in healthcare applications. IoMT improves the human-machine interaction enhancing the instantaneous monitoring of patient's health and also involves patients in making decisions. So, the current medical devices have to be transformed into IoMT-based medical devices to collect patient information instantaneously. The patient's health-related information can be observed from remote location without any need to go to hospital, and this data can be processed and is sent to mediators for further use. So, we are in need of technology that secures the confidentiality of the health information of patients. Blockchain is one such technology that helps in securing privacy of patient's health-related data. Blockchain technique uses a sequence of blocks comprising the block ID, previous block ID, and the transactions. The preceding block ID can be used to maintain a link between subsequent blocks. These links continue until the first block is reached. This ID contains hash in blocks, and this hash is appended to subsequent blocks in chain. Any modifications to the patient information in a block will change the subsequent blocks in the chain also. So, changes to the data made by a hacker will become impossible. It uses public key cryptography for performing transactions between nodes. So, use of such type of cryptographic hash technique and chain formation for the blocks guarantees the security and privacy of the patient's health information or records.

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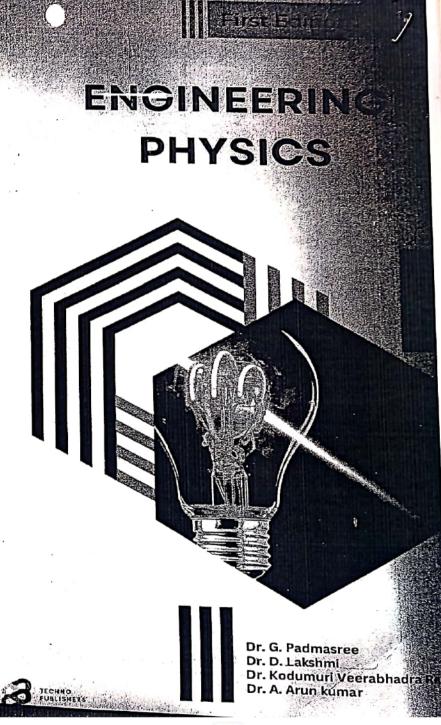
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Head & Professor in Physics, Stanley College of Engineering and Technology for Women, Hyderabad

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which is published on 24.06.2024 by Government of India with the assigned International Standard Book Number (ISBN: 978-81-972362-8-0)



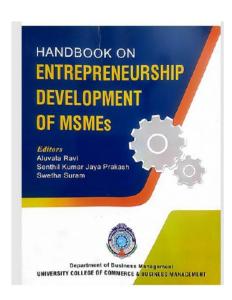














ROLE OF MSMES IN ENTREPRENEURSHIP AND ECONOMY DEVELOPMENT IN INDIA

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Abstract

Abstract

Smell and medium-sized enterpreses (MES) countitute significantly to the growth of commy and in creating entrepreneurship. Ministerial MSMEs and its organizations are supporting the States in their efforts to promote entrepreneurship and employment, as well as swengthen the competitiveness of MSMEs in the changing economic environment. For a developing country like India, micro, small, and medium-sized enterprises (MSMEs) play a more significant role in entrepreneurship. MSMEs are an essential sector for the Indian Economy and have contributed immensely to their socio-economic growth & development. The ain of the chapter to understand the role of MSMEs in recasting Enterpreneurship and to ficus on identifying the role of MSMEs in Economy development in India. This chapter covers the importance of MSMEs. MSMEs schemes for entrepreneurship development, entrepreneurship and skill Development programs and trends in MSMEs growth. This chapter also covers the role of MSMEs in growth of Indian economy.

Keywords: MSMEs, Entrepreneurship, Economy.

Role of MSMEs in Entrepreneurship and Economy Development in India Chapter Objectives

- To understand the overview of MSMEs in India
- · To recognize the role of MSMEs in Entrepreneurship development
- . To understand the role of MSMEs in Economy development in India

