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3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year

Sl. No.	Name of the teacher	Title of the book/ chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	M.Bharati Devi		A Convolutional Neural Network Architecture for Tomato Leaf Disease Detection Using Data Augmentation	Smart computing techniques and application	Fourth international conference on smart computers and informatics volume1	International	2019	https://link.springer.com/chapter/10.1007/978-981-16-0878-0_50	RISE krishna sai gandhi group of institutions ongole	SPRINGER
2	S.Chandrasekhar		Improving the Robustness of Hand Gesture Recognition with One-shot-learning Features of Static HOG and SVM by Using Kinect V2 Method	Improving the Robustness of Hand Gesture Recognition with One-shot-learning Features of Static HOG and SVM by Using Kinect V2 Method	Proceedings of the Second International Conference on Intelligent Sustainable Systems (ICISS 2019)	International	2019	https://ieeexplore.ieee.org/document/8908056	RISE krishna sai prakasam group of institutions ongole	IEEE
3	S.Chandrasekhar		Improving Robustness of Shoulder Gesture Recognition Using Kinect V2 Method for Real-Time Movements	Smart Intelligent Computing and Applications.	Thired international conference on smart computers and informatics volume2	International	2019	https://link.springer.com/chapter/10.1007/978-981-32-9690-9_4	RISE krishna sai prakasam group of institutions ongole	SPRINGER

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4	M.Bharati Devi		Machine Learning-Based Application to Detect Pepper Leaf Diseases Using HistGradientBoosting Classifier with Fused HOG and LBP Features	Machine learning based smart tchnologies in data science and communications	Proceding of SMART-DSC-2021	Internat ional	2021	https://link.springer.com/chapter/10.1007/978-981-16-1773-7_29	RISE krishna sai gandhi group of institutions ongole	SPRINGER
5	Dr K.V.Subrahmanyam	TRANSMISSION LINES AND WAVE GUIDS					2022	ISBN:978-93-5625-012-3	RISE krishna sai gandhi group of institutions ongole	scientific internartional publishing house
6	Dr K.V.Subrahmanyam	MICROWAFE INGINEERING :CONCEPTS AND FUNDAMENTALS					2022	ISBN:978-93-5625-093-2	RISE krishna sai gandhi group of institutions ongole	scientific internartional publishing house

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8	GUNNA KISHORE	ADVANCEMENTS IN BIOINFORMATICS					2022	978-81-962332-5-9	RISE krishna sai prakasam group of institutions ongole	SCIENTIFIC PUBLICATIONS
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Chapter 50
A Convolutional Neural Network Architecture for Tomato Leaf Disease Detection Using Data Augmentation

Matta Bharati Devi and K. Amarendra

Abstract Convolutional neural networks have set state-of-the-art results for many challenging problems in the field of computer vision. In this article, we design and implement a six-layered convolutional neural network for tomato leaf disease detection. Our model is trained on tomato plant leaf images of ten different classes representing various diseases of tomato plant. To increase the model generalizability, we employed various data augmentation techniques and increased the size of training data. Batch normalization layers after every convolution and dropout induced after fully connected layers made the model immune from overfitting. Our proposed model is able to outperform various existing works on tomato leaf disease detection and achieved an accuracy of 92.3% on test data.

50.1 Introduction

Plant leaf disease identification is one of the major challenges faced by farmers in agriculture. It is very important to correctly identify the type of leaf disease for appropriate use of pesticides. Any mistakes in accurate identification of plant leaf diseases leads to reduced yield. According to statistics, 52% of the Indian population depends on agriculture. Most of the local farmers and gardeners grow tomatoes in their farms and gardens as it is one of the most required vegetables in our day-to-day life. But they are unable to find appropriate pesticides to use when they are infected by different types of pests and diseases. The reason behind this is tomato plants get affected by various diseases in its life span of being productive, and identifying each disease accurately is a challenge. Hence, there is a requirement to automate the process of tomato leaf disease detection. In recent years, tomato leaf disease detection has been an active area of research, and several methods were proposed

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IMPROVING THE ROBUSTNESS OF HAND GESTURE RECOGNITION WITH ONE-SHOT-LEARNING FEATURES OF STATIC HOG AND SVM BY USING KINECT V2 METHOD

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Abstract— **The innovative technologies like dynamic action and hand gesture recognition has improved considerably in the past few years. However, in this paper we are implementing the concept of one short learning with the major features like histogram orientation of gradients and support vector machine for hand gesture recognitions. Here the major utilities of RGB and depth images are pre-recorded by using sensors and 3-D camera of Kinect V2.The combined appearance of the depth images and RGB are very important for motion descriptors. These are used for gesture recognition and temporal segmentation. To measure the differences in Histograms we capture the relationships of cross-bins by using the Quadratic-Chi distance family. Here the proposed methods of HOG descriptors has the ability to remove all unwanted frames from the captured images by using Kinect V2 and it can also trim the video frames by using new algorithms using a combination method in HOG, descriptors together with Support Vector Machines technique to deliver good results in the hand gesture recognition technology.**

A. Keywords: MotionGesturesRecognition;Feature extraction variation;Support Vector Mechanism;Kinect v2Method.

I.INTRODUCTION

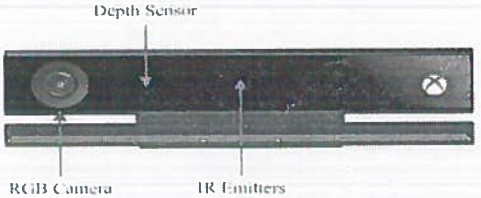
The vision-based gestural recognition and human action is emerging as one of the important research topics in the recent years [1],[2].The gesture plays a main role in the area where computers are used to understand the human body language. Nowadays, the state-of–the –art algorithms tends to improve the existing facilities of human-computer interaction. For controlling computers and robotics, human gestures plays a major role in terms of developing natural user interfaces. With the availability of recent technologies, the present input devices such as keyboard, mouse are replaced with a simple and maximum dataset of hand gestures which are initially recorded by using the Kinect v2 modules, that consists of 3D depth sensors, RGB camera, multi-array mic and a motorized tilt.

Kinect version2 hardware:-

The Microsoft Kinect software desk kit 2.0 is the latest version released by Microsoft in 2015.It is one of the most useful devices to capture the full human skeletal image without the need of any pre-calibration and it is also useful for the developers in research area[3]. Kinect is a peripheral of xbox framework to initiate a new motion sensing image experience.

1 Kinect v2 for Xbox one

The Figure1 shown is the latest 2.0 edition of Kinect by Microsoft in 2015. It can record videos at 30 frames per second in 1920*1080 full HD resolution of 512*424 pixels and its depth detecting range is boosted up from 0.5m to 8m.



The most useful advantage of this device is it can support the data generated by Kinect using C++,C# and other programming languages[4].

The major advantages of Kinect v2 when compared with other devices are low power consumption and reasonable production. The depth images appears with light ranging method and high precision ranging principle[5]. To build application by using Kinect sensor with open NI framework provides the library and applications peripheral interface (API). It is an open source library which has solely developed for open community people.

The huge data set of arm and hand gestures are recorded using IR sensors of Kinect v2, to capture the depth images and RGB for a better analysis of image. The major classifications of gesture recognition is shown in Figure2. .The sign language and the gaming applications will remain under the arm and hand gesture[6].Facial expressions will come under head and face gesture. It first captures the human poses inside and outside the nature and then analyses the required movements.

Improving Robustness of Shoulder Gesture Recognition Using Kinect V2 Method for Real-Time Movements

S. Chandrasekhar and N. N. Mhala

Abstract Shoulder motion acknowledgment is a vital point in human–PC collaboration. Notwithstanding, a large portion of the current strategies are muddled and tedious, which constrains the utilization of hand motion acknowledgment conditions progressively. In this paper, we propose an information combination based shoulder motion acknowledgment demonstrated by melding profundity data and skeleton information. In light of the exact division and following Kinect V2, the system working can accomplish ongoing execution, which is quicker than a portion of the best in class techniques. Dynamic Region Segmentation is presented. This paper deals with the recognition of shoulder movements. This guarantees its utilization in various certifiable human–PC cooperation errands and improves the use in real time without any restrictions in terms of distance.

Keywords Kinect V2 system Gesture recognition Image fusion Human–computer interaction

1 Introduction

Movement affirmation is a point in programming designing and dialect development with the target of interpreting human movements through numerical computations. Movements can begin from any generous development or state anyway, as a rule, starting from the face or hand. The current focuses in the field fuse feeling affirmation from face and hand movement acknowledgment. Clients can use direct movements to control or coordinate—with devices without physically contacting them. Numerous techniques have been made using cameras and PC vision estimations to decipher

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Machine Learning-Based Application to Detect Pepper Leaf Diseases Using HistGradientBoosting Classifier with Fused HOG and LBP Features

Matta Bharathi Devi and K. Amarendra

Abstract Pepper leaf disease detection is one of the interesting challenges in the field of machine learning. In this paper, a machine learning-based approach is proposed to extract texture features and use dimensionality reduction techniques called principal component analysis (PCA) and create a composite feature descriptor. There are two different texture-based feature representations extracted by using HOG and LBP feature engineering techniques were used for the pepper leaf images, and PCA is applied to obtain reduced representations. These representations are fused and passed to machine learning models like logistic regression, naïve Bayes, decision tree, support vector machine, and HistGradientBoosting classifier for classification. HistGradientBoosting classifier achieved highest the accuracy of 89.11% and outperformed other models.

Keywords Histogram of oriented gradients (HOG) · Local binary pattern (LBP) · Principal component analysis (PCA) · HistGradientBoosting classifier (HGB) · Machine learning

1 Introduction

Detecting plant leaf diseases is one of the major challenges faced by farmers in agriculture. It is very important to identify the type of leaf diseases accurately for the appropriate use of pesticides. Any mistakes in identifying diseases of plants lead to reduced yield. Plant diseases can be either biotic [1, 2] or abiotic. The primary cause behind biotic diseases is various living organisms like bacteria, viruses, and fungi. Biotic diseases are affected by viruses, unlike abiotic diseases which are affected by inorganic conditions like weather changes and chemicals. Identifying leaf diseases accurately by observing with the naked eye is a difficult task. Hence,

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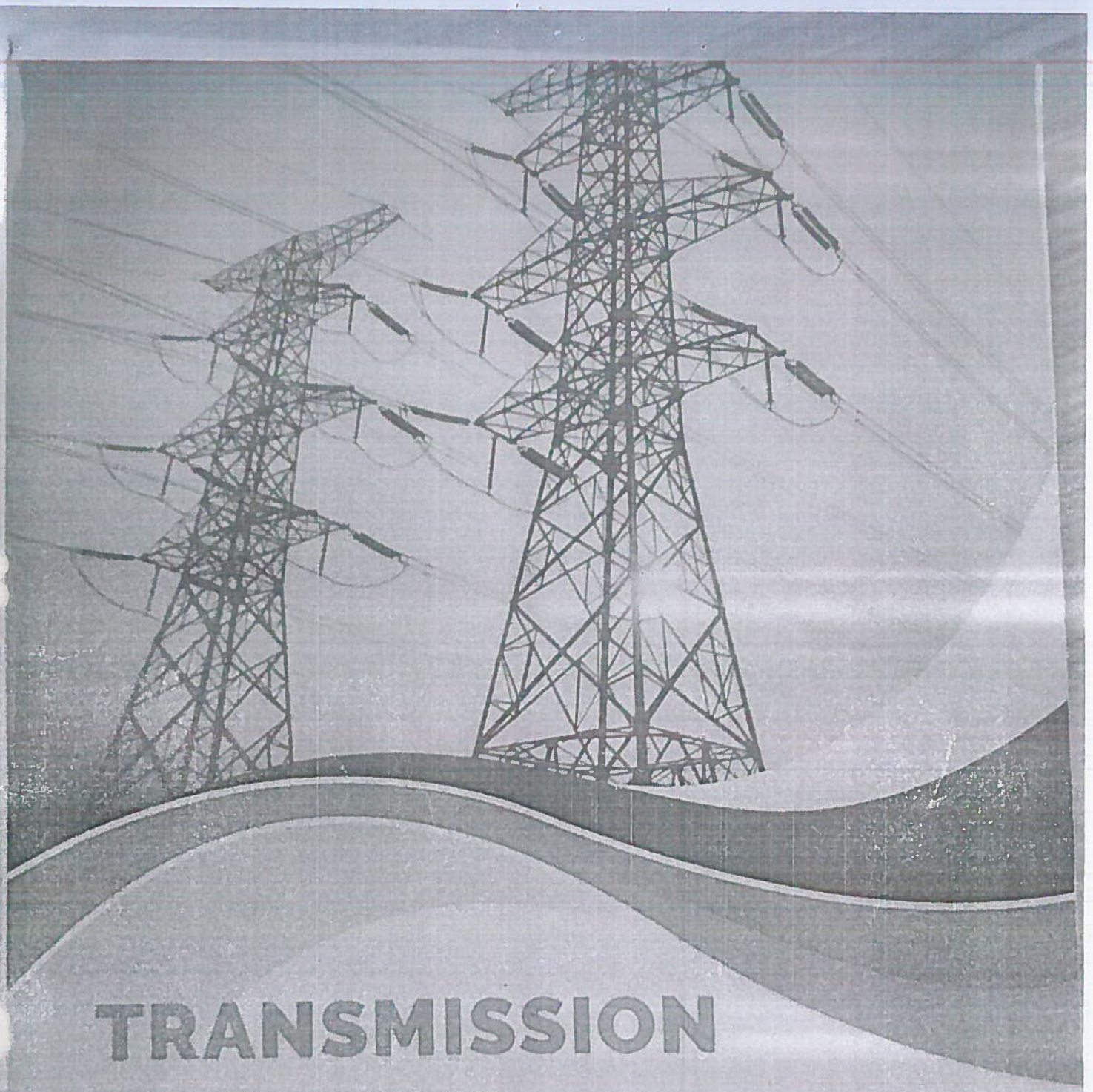

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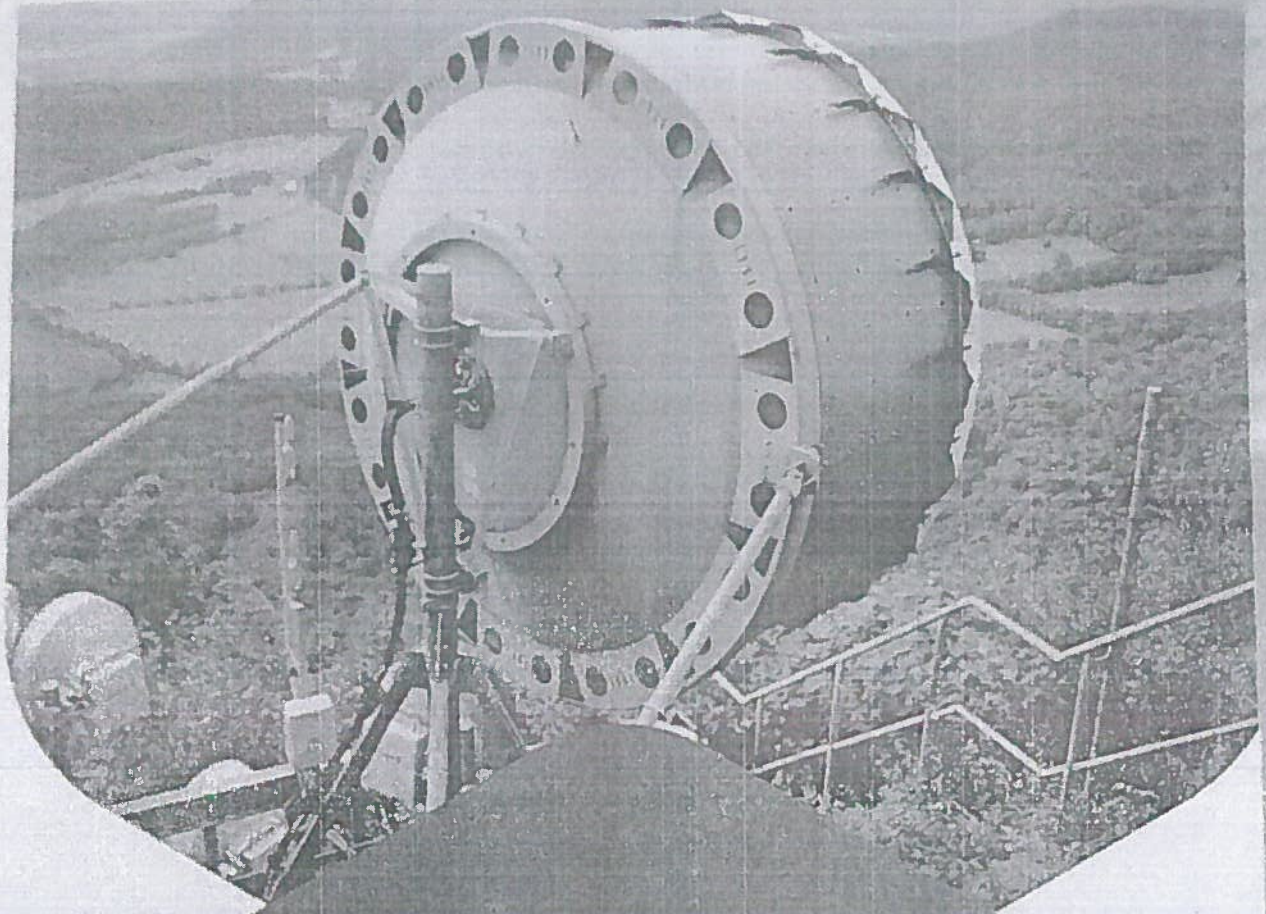

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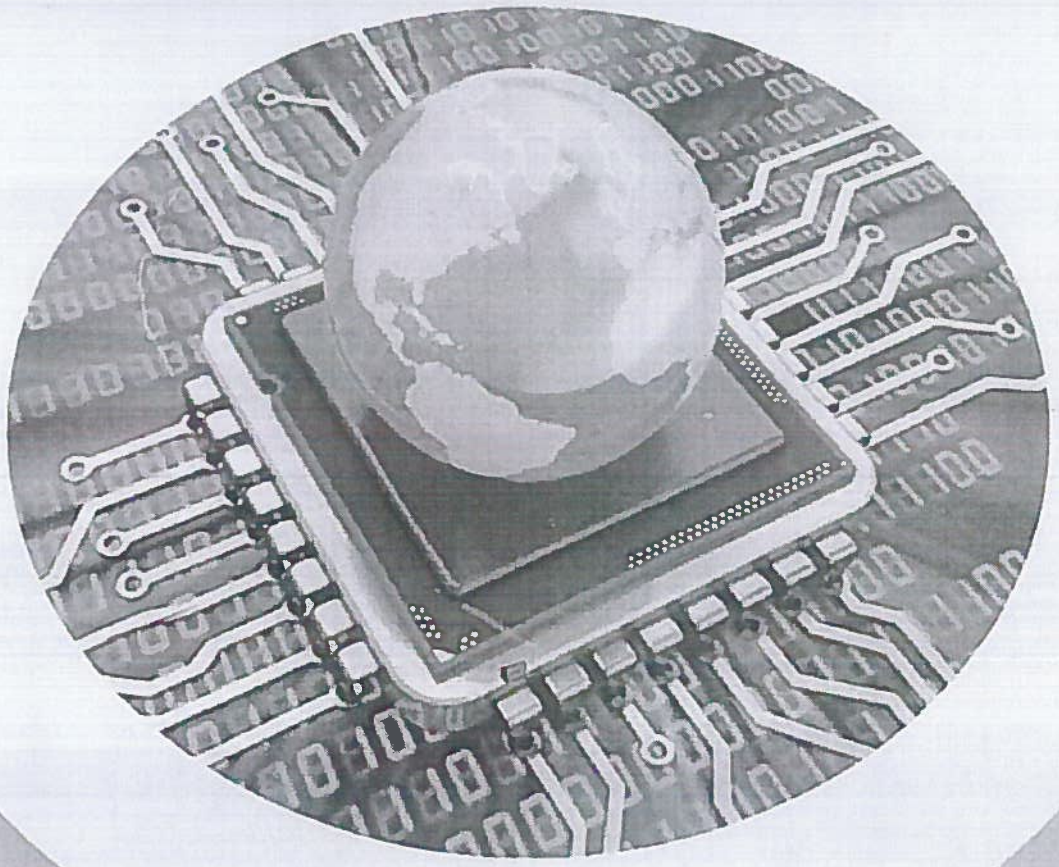

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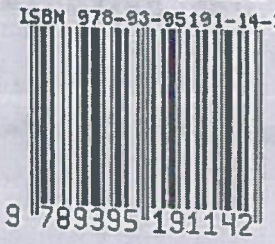

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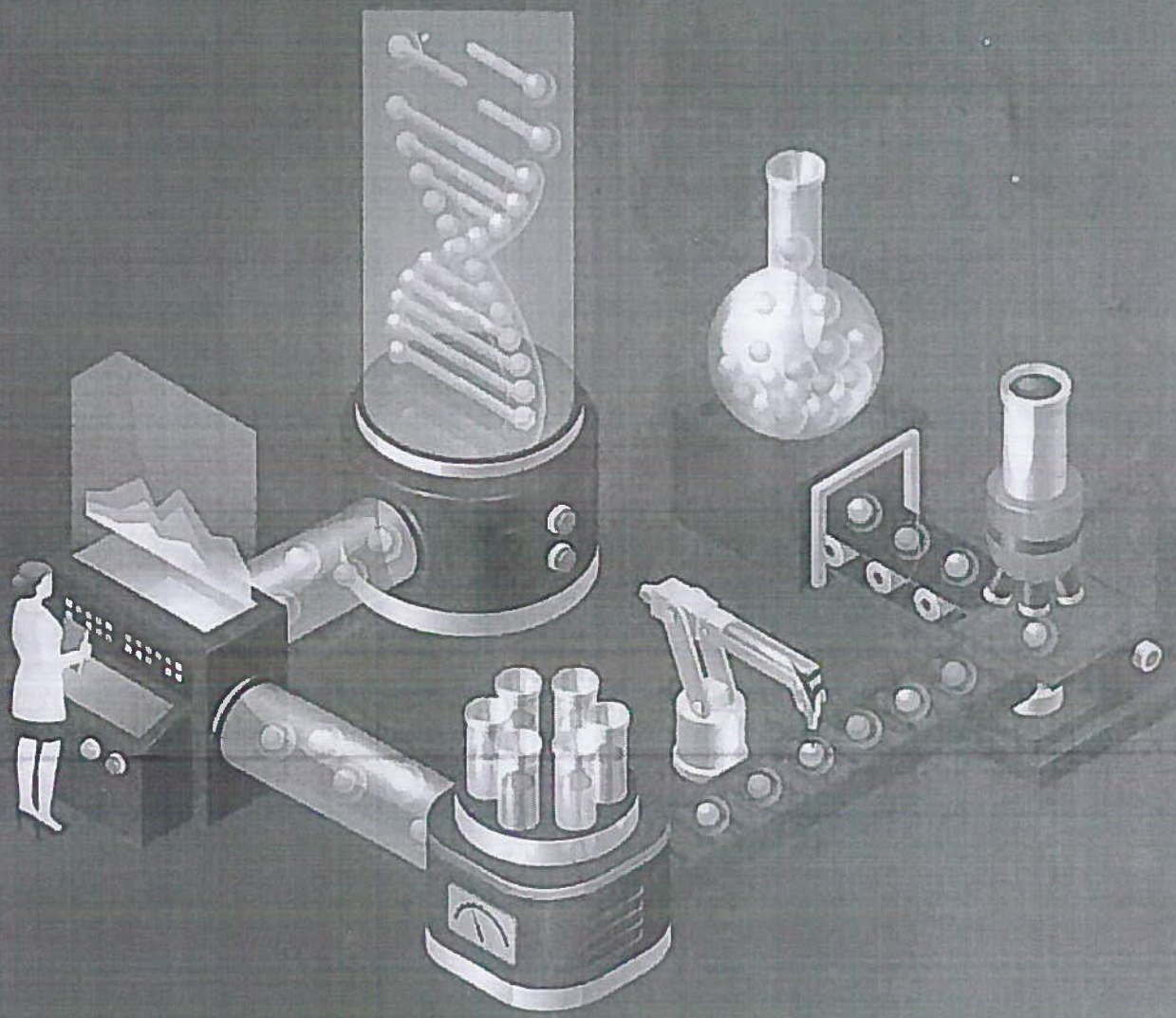

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