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Patent Search

Invention Title	A NOVEL ALKALINE LACCASE FROM A MARINE BACTERIUM: ISOLATION AND PREPARATION THEREOF
Publication Number	41/2018
Publication Date	12/10/2018
Publication Type	INA
Application Number	201741012684
Application Filing Date	07/04/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIOTECHNOLOGY
Classification (IPC)	C12N1/14;

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Abstract:

The present invention discloses a novel alkaline laccase from a marine bacterium. A simple method was used for the isolation and purification of laccase. The laccase from marine bacterium was characterized molecularly by using 16S rDNA analysis. The purified laccase was characterized and it was stable at extreme pH and Temperatures.

Complete Specification

Claims:1. A marine bacterium produces a laccase enzyme.
 2. A laccase enzyme claim 1, is a structurally novel.
 3. A marine bacterium which produces laccase claim 1, no other bacterium produces laccase.
 4. Laccase enzyme from marine bacterium claim 1, stable at alkaline pH.
 5. Laccase enzyme from marine bacterium claim 1, stable at extreme temperature.
 6. Preparation of laccase enzyme.
 7. Laccase containing preparation claim 6, degrades various textile dyes.
 8. Production of laccase using marine bacterium.
 9. Laccase producing marine bacterium claim 1, forms biofilm. , Description:Bacterial laccases are highly thermostable enzymes. They are capable of oxidizing a large range of substrates. The thermostability of bacterial laccases allows high process temperatures with higher reaction rates and less risk of microbial contamination. Very little is known about bacterial laccases and very few bacterial laccases have been characterized. A laccase from marine bacterium has been targeted in this study.

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Patent Search

Invention Title	Automation System Practices in Micro and Small Scale Industries
Publication Number	14/2022
Publication Date	08/04/2022
Publication Type	INA
Application Number	202241020071
Application Filing Date	02/04/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0030020000, G06Q0010060000, G06Q0010100000, G06N0005040000, G06Q0010040000

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Abstract:

The present invention related to the role of Automation system practices in the development aspects of Micro, Small, Medium and Large Scale Industries. The Automation processes in industrial units will bring numerous advantages especially while taking decision-making and forward planning in the areas of human resource management s customer relationship management systems, production information system and marketing information system. The automation processes will create numerous advanta maintaining accuracy, reliability and minimizing cost and time and overcoming bottlenecks in the process of performing activities in the business. Therefore, the outcome present invention will have many advantages in aspects of the industrial concern by effective decision-making and accuracy in operations.

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Patent Search

Invention Title	Mediating Effect of Reliability and Consistency in relationship between the factors of Social Media Marketing and Purchase Decision of Cons using Structural Equation Modeling Algorithm
Publication Number	22/2022
Publication Date	03/06/2022
Publication Type	INA
Application Number	202241031005
Application Filing Date	31/05/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0030020000, G06Q0050000000, G06Q0010100000, G06Q0010060000, G06F0016245700

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Patent Search

Invention Title	DEVELOPMENT OF SMART ASSISTANT SYSTEM FOR FARMERS USING RASPBERRY PI
Publication Number	05/2021
Publication Date	29/01/2021
Publication Type	INA
Application Number	202121001066
Application Filing Date	09/01/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	H01L21/00

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Patent Search

Invention Title	DESIGN AND DEVELOPMENT OF SMART SECURITY AND SURVEILLANCE SYSTEM
Publication Number	06/2021
Publication Date	05/02/2021
Publication Type	INA
Application Number	202141003615
Application Filing Date	27/01/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	TEXTILE
Classification (IPC)	A42B0003040000, B62J0003000000, B62J0099000000, A41D0013010000, G07C0005000000

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Patent Search

Invention Title	A Novel Framework for Intelligent Moving Object Segmentation using Hybrid Clustering Model
Publication Number	35/2022
Publication Date	02/09/2022
Publication Type	INA
Application Number	202241048075
Application Filing Date	24/08/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06K0009000000, G06Q0030020000, G06T0007110000, H04N0007180000, G06T0007194000

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Abstract:

Video analytics is a process that analyzes videos to obtain relevant information and explores a number of functions such as object recognition and traffic analysis. Moving segmentation (MOS) in video data is an essential step in many advanced vision applications. Image segmentation is nothing but a process which divides the desired parts of the given image. However, the presence of a dynamic background may increase the difficulty of object recognition from the video. In video analysis, detection of moving objects is defined as one of the most challenging tasks due to the presence of a moving background. The existing model KFCM-GWO-LS (Kernel FCM-Gray Wolf Optimization-Level Set) is longer to train and has higher computational complexity.

Complete Specification

Description:FIELD OF THE INVENTION

This invention represents the field of computer science.

SUMMARY OF THE INVENTION

Moving object segmentation (MOS) is an essential research in video analysis and computer vision. Generally, video frames contain information about the foreground and background. In the ROI (Area of Interest) the feature point is the foreground and the rest of the features are the background. The main purpose of MOS is to divide the moving object (foreground) from the stationary (background). It is a fundamental process for various applications such as video content analysis, video event detection, video semantic annotation and intelligent video surveillance. Object detection is an early process as it is affected by background information.

Recognition of the basic shape of a moving object from a video sequence has become important. However, the process of recognizing the original figure becomes complicated while walking. Videos captured by cameras are not static. For example, due to the strong wind, the external observation camera may move slightly.

Furthermore, segmentation is complicated due to changing backgrounds, lighting conditions, and the presence of noise and obstruction.

Tracking and object segmentation while running is still a complex problem. An accurate MOS includes information about size and precise positioning. Due to the clutter background motion, traditional moving object detection methods received a rough split. Several techniques have been introduced to detect moving objects, such as optical flow, frame difference, Gaussian blending, and background subtraction.

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Patent Search

Invention Title	DEEP LEARNING AND COMPUTATIONAL STATISTICS BASED APPROACH FOR EFFECTIVE DECISION MAKING ON STUDENT'S EMPLOYMENT DURING COVID 19
Publication Number	22/2022
Publication Date	03/06/2022
Publication Type	INA
Application Number	202211029349
Application Filing Date	21/05/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0003040000, G06N0003080000, G06K0009620000, C07K0016100000, G06Q0010100000

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Patent Search

Invention Title	DESIGN AND IMPLEMENTATION OF OPTIMAL TRAINED ARTIFICIAL NEURAL NETWORK FOR TELUGU SPEAKER DIARIZATION MECHANISM
Publication Number	31/2022
Publication Date	05/08/2022
Publication Type	INA
Application Number	202241043814
Application Filing Date	01/08/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G10L0017000000, G06N0003040000, G10L0025780000, G10L0017040000, G10L0015020000

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Abstract:

In speech technology, an important role is being played by the speaker diarization mechanism. In general, speaker directionation is the mechanism of dividing the input at stream into homogeneous segments based on the identity of the speaker. Automatic transcription readability can be improved with speaker diarization because it is good recognizing audio streams in speaker turn, and often provides accurate speaker recognition. In this research work, a novel speaker diarization approach is introduced and major steps: feature extraction, speech activity detection, and speaker segmentation and clustering process. Initially, Mel Frequency Cepstral Coefficient based features are extracted from the collected input audio stream (Telugu). The segmented signals are subjected to a speaker clustering process, where an Optimized Convolutional Neural Network is used. In order to make the clustering more suitable, the weights and activation functions of the CNNs have been corrected by a new self-adaptive Sea Lion algo

Complete Specification

Description:FIELD OF THE INVENTION

This invention represents the field of speech technology.

SUMMARY OF THE INVENTION

Man expresses his thoughts and information through speech, which is a means of communication. Recently, a large number of audio-visual materials are being generate from sources as diverse as broadcast radio, meetings, TV channels, and lectures [9] [10] [11] [12] [13] [14] [15] . Due to technological advances, almost unlimited storage capacity is maintained for the production, storage and distribution of audio visual content with affordable prices.

In this context, there is a need for an economical and suitable content management model to retrieve and locate information. In the case of speech, the amount of data seems overwhelming and the manual handling of the data is complicated. Therefore, it is necessary to have an automated human language processing model that can efficiently search, index and access information sources.

Compared to text documents, it is challenging to find and assess the information content in audio because of its computational complexity and time consumption. Therefore, the need for automated processing is essential to find, index and access spoken content in a particular period.

In addition, multi-party dialogue problems (where more than two people are engaged in conversation) are serious issues when specifying temporal clauses of speech. An obvious solution to this issue is speaker directing [16] [17] [18].

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