**Introductions:**

Computer applications have dramatically influenced in our social lives, including educational systems. Traditional methods need to be reconsidered and electronic and automatized examination systems be incorporated. Thus, automatic examination systems became very beneficial in various academic fields in recent years. In this article, the design and implementation of a comprehensive college/institute examination mark-sheet management system and user interface is provided to replace the current paper-based examination form. College staff are able to directly access all aspects of a student’s academic. The design and implementation of the system is to provide service in institute and colleges. The system is to provide comprehensive student information system and user interface is to replace the current paper records. College Staff uploads students, teachers, subject results, and college notifications through a secure, online interface using computers and mobile devices. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. All data is stored securely on MySQL database managed by the college Administrator. The system decreases paper work and time needed to access student records.

* 1. **Literature survey:**

# 1.Title: AI based Examination Assessment Mark Management System

Author: R. Suganya

Abstract:

Calculation of exam scores and management of these scores is a crucial process in every examination. But these works have always been a tedious process, including calculation of scores for each question, then the calculation of total marks for each student and then updating the marks for each student. In spite of the modern technologies and new techniques around us, these chores are still done in traditional methods to avoid errors as the tasks considered are crucial. Hence, we focus to reduce the time spent in all these tasks and the human intervention in the entire process by using modern techniques and still provide the same quality in work done. We propose a system using Image Processing based edge detection and contour detection techniques along with Deep Learning based Image classification technique to automate the entire process. We perform two tasks: (1). Automated table detection from the students' answer scripts using image processing (2). Automated mark detection and the total calculation from the students' answer scripts using deep learning techniques. We use Convolutional Neural Networks (CNN) trained and tested on handwritten digit dataset obtained with a high accuracy rate to do the task of mark detection from the answer sheet. We have done our evaluations using the answer sheet used in our college and the system works well for table recognition for the given pictures.

# 2. Title: Smart Attendance Management System Using Face Recognition

Author: Kaneez Laila Bhatti

Abstract:

Learning achievement is a representation of student success level in learning. In accordance with the rules that have been determined by Muhammadiyah Vocational High School (SMK) to know the student achievement, it is needed criteria to determine who will be selected to be the most outstanding student. The purpose of this study was to design the Student score Information System as a support in decision-making and daily operational purposes, and to compare the effectiveness and efficiency of data processing and presentation of information between existing systems and information systems to be proposed. In improving the development process that the author will develop Student Information System as a supporter in decision making using Visual Basic 6.0 programming language. Research conducted in this case was descriptive qualitative research by conducting survey on the object of research that is in Vocational High School (SMK) Muhammadiyah Pringsewu District by using data collecting technique there were observation, interview, and literature study. The conclusion of writing this research is expected that the new system can provide convenience to the parties involved in performing data processing quickly and accurately, and can store data safely to assist in the process of service to students and society generally.

# 3. Title: New generation of digital academic-transcripts using encrypted QR code™: Use of encrypted QR code™ in mark-sheets (academic transcripts)

Author: apoorva, a

Abstract:

Today, because of ever growing digital data, it is very important to optimize these data and preserve them in an eco-friendly manner. In this paper, the author presents a new method to digitize the academic transcript i.e. mark-sheets, and embed the digital format in the mark-sheet itself in the form of encrypted QR Code™, so that the digital data can not be retrieved by any unauthorized user. In this way, we can save a lot of digital space, which was necessary to save those digital academic records of each student. In our new marksheet system, the digital data, which is embedded in the marksheet in form of encrypted QR code, can only be retrieved and decrypted using our own web-application, which is hosted in our website. Our new mark-sheet system introduces a new generation of digital academic transcripts, which is already under implementation in our St. Xavier's College [Autonomous], Kolkata, India, and till now the implementation results and success of the system have been remarkable.

# 4. Title: New Generation of Digital Academic-Transcripts using encrypted QR CodeTM

Author:

Abstract:

The use of Big Data in today’s world has become a necessity due to the massive number of technologies developed recently that keeps on providing us with data such as sensors, surveillance system and even smart phones and smart wearable devices they all tend to produce a lot of information that need to be analyzed and studied in details to provide us with some insight to what these data represent. In this paper we focus on the application of the techniques of data reduction based on data nodes in large networks datasets by computing data similarity computation, maximum similarity clique (MSC) and then finding the shortest path in a quick manner due to the data reduction in the graph. As the number of vertices and edges tend to increase on large networks the aim of this article is to make the reduction of the network that will cause an impact on calculating the shortest path for a faster analysis in a shortest time.

5. Title: New Generation of Digital Academic-Transcripts using encrypted QR CodeTM

Author: Haysam Selim

Abstract:

—Today, because of ever growing digital data, it is very important to optimize these data and preserve them in an eco-friendly manner. In this paper, the author presents a new method to digitize the academic transcript i.e. mark-sheets, and embed the digital format in the mark-sheet itself in the form of encrypted QR CodeTM, so that the digital data can not be retrieved by any unauthorized user. In this way, we can save a lot of digital space, which was necessary to save those digital academic records of each student. In our new marksheet system, the digital data, which is embedded in the marksheet in form of encrypted QR code, can only be retrieved and decrypted using our own web-application, which is hosted in our website. Our new mark-sheet system introduces a new generation of digital academic transcripts, which is already under implementation in our St. Xavier’s College [Autonomous], Kolkata, India, and till now the implementation results and success of the system have been remarkable.