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## ARTIFICIAL INTELLIGENCE IN LAW ENFORCEMENT, A REVIEW

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### ABSTRACT

This research is presenting a critical review of existing methodologies and researches that deal with using AI as a tool of mining data in order to smooth and lead evidence in enforcing law. It will review as well the current situation in Jordan as possible as we can access the current available resources, where the method of mining information and using AI or soft evidence are to be addressed. The research concluded the importance of AI as supportive technology in policing, fighting crimes, cybercrimes, as models for enforcing law, but there were no cutoff evidence in using AI advanced methods in mining data in Jordan police and intelligence, simply because it was impossible mission to access the security information of such bodies.

### KEYWORDS

Artificial Intelligence, Knowledge, Law Enforcement, Fraud

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## Information and Communication Technology Skills' Sufficiency of Egyptian Accounting Graduates

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### ABSTRACT

This study aims at evaluating the sufficiency of ICT skills of fresh accounting graduates by soliciting the opinion of senior accounting professionals. A questionnaire used as the data collection method, and descriptive statistics used for analysis. The result of this research was surprisingly, as the level of the accounting graduates rated to be above average and they are very competent for current accounting profession in Egypt. The research revealed that any fresh graduate should be literate with Internet, word processing software, spreadsheet software, e-mail, commercial accounting software, and database management software. The research has several practical implications as well as a genuine value, as it provides current set of ICT skills tools needed by accounting profession in Egypt. Also, it calls accounting higher education institutions worldwide to keep investigating the requirements of the profession in order to produce graduates who are competent and up to market challenges.

### KEYWORDS

Sufficiency, skills, ICT, Egypt, Accounting Graduates, HEI

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# An Adaptive Watermarking Process in Hadamard Transform

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## ABSTRACT

An adaptive visible/invisible watermarking scheme is done to prevent the privacy and preserving copyright protection of digital data using Hadamard transform based on the scaling factor of the image. The value of scaling factor depends on the control parameter. The scaling factor is calculated to embedded the watermark. Depend upon the control parameter the visible and invisible watermarking is determined. The proposed Hadamard transform domain method is more robust again image/signal processing attacks. Furthermore, it also shows that the proposed method confirm the efficiency through various performance analysis and experimental results.

## KEYWORDS

Hadamard Transform, visible watermarking, invisible watermarking, scaling factor.

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# TRADITIONAL VERSUS BLENDED LEARNING METHOD: A COMPARATIVE STUDY ON ITS EFFECTIVENESS IN BUSINESS COMMUNICATION COURSE

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## ABSTRACT

This article presents a descriptive comparative study on two methods of teaching, the traditional and blended learning pedagogical approach in a Business Communication course. Forty-four (44) students from the two controlled groups were enrolled in the course for the first semester of school year 2017-2018 participated in the study. The findings indicated that respondents' performance in ENGL118 (English Composition) had an effect on their performance in BUS261(Business Communication) and there was a significant positive relationship between year level and final grade in BUS261. Therefore, it was concluded that the year level and grade in ENGL118 have correlationson student'sperformance in BUS261. The results of the assessments of the two groups were compared and indicated a significant difference in the results which was influenced by respondents' year level and mode of conducting assessments. It is further concluded, that if the characteristics of both groups were the same, blended would have been more effective than the traditional method.This study recommends adopting the blended pedagogical approach not only in BUS261 course but also to other courses as applicable.

## KEYWORDS

Flipped Class, Blended Learning, BlackBoard, Business Communication, Teaching Pedagogy

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# BACKUP STORAGE BLOCK-LEVEL DEDUPLICATION WITH DDUMBFS AND BACULA

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## ABSTRACT

Data deduplication is not only becoming an essential backup system component, because it reduces storage space requirements, but also a critical one, since the performance of all the backup operation depends on storage throughput. This paper is focused on the backup data volume ratio of deduplication when stored in file systems with this feature, and how a newly developed volume format can improve it. Bacula backup software is currently the third most popular backup software worldwide and it's also open source, therefore selected to this performance analysis study. Corresponding to the results, it is possible to verify that the proposed Bacula aligned backup format brings gains of 82%, even for a workload that emulates a relatively small backup policy and with minimum impact on backup or restore times.

## KEYWORD

Backup volume, deduplication format, file system, data reduction

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# STUDENTS E-READINESS IN INSTITUTIONS OF THE ROYAL COMMISSION IN JUBAIL

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## ABSTRACT

Information and communication technologies (ICTs) provide a rich integrated educational environment, which capable of changing the lives of students. The purpose of this research paper is to investigating e-readiness of the students in the affiliate Institutions of the Royal Commission in Jubail, and whether their experience in using ICTs influences their judgement towards ICTs, and whether their judgement and experience toward ICTs influence their use of ICTs or not. Survey methodology is facilitated through the use of the questionnaires. Survey domain is a random sampling of students in Institutions of the Royal Commission of Jubail. With a 95% confidence level of a possible sample frame of 669, the study sampled 1032 respondents (15%). Results showed that students' judgement towards ICTs is highly positive, which reflect their e-readiness and willingness to use ICTs, but the analysis showed that the experience with ICTs did not significantly predict students' judgement about ICTs use. It was discovered that the following set of ICTs requires the most attention in the future adoption planning by the Royal Commission for its three affiliate Higher education institutions (HEIs): "Blackboard", "smart devices", "e- bulletin boards", and "e-materials". This set of ICTs receives the least scores of use and experience responses from study participants. The result of this study provides valuable insights into students' e-readiness. This information may be used to develop and support factors that enhance strategies for adopting ICTs by students.

## KEYWORDS

e-readiness, ICTs, JUC, JIC, JTI, judgment, Royal Commission of Jubail, HEI

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# **THE IMPACT OF SOCIAL MEDIA ON ACADEMIC PERFORMANCE OF SELECTED COLLEGE STUDENTS**

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## **ABSTRACT**

The purpose of this article is to assess the impact of social media on academic performance of selected college students. In this article, the authors raise the actual impact of daily communication of youth in social media. Descriptive research design was utilized to gain accurate profile of situation. Sixty (60) Business Administration and Management Information System students who are actively using social media are the respondents of the study. It was conducted during the summer semester of academic year 2017- 2018. Summing-up, social networks becomes an integral part of the students' full life, took up most of their free time. Undoubtedly, in social networks, there are also things useful for the development of the students. In addition, communication with peers through social networks can help a student socialize, find new friends, discuss with them issues related to studies. Thus, it can be concluded that social media have a dual impact on student achievement, and it is necessary to approach adolescents' use of social networks with ultimate responsibility.

## **KEYWORDS**

social network, social media, Saudi Arabia, impact of electronic technology, social media effect

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# **HIGHER EDUCATION FACULTY STAFF E-READINESS IN INSTITUTIONS OF THE ROYAL COMMISSION IN JUBAIL**

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## **ABSTRACT**

Critical analysis of technological skills deemed extremely important in the evaluation of faculty staff e-readiness. Research aims at assessing e-readiness of faculty staff in the affiliate institutions of the Royal Commission in Jubail, and to investigate whether their experience in using ICTs influences their judgement about using ICTs or not. Survey methodology facilitated through the use of questionnaires collected from 146 respondents. Analysis revealed that faculty staff judgement about using ICTs, their e-readiness and willingness to using ICTs are highly positive. Moreover, their experience in using ICTs did not significantly predict their judgement about ICTs. The result of this study provides valuable insights as it will enable policy-makers to prioritize interventions needed for transforming the Institutions of the Royal Commission in Jubail into an e-ready entity favourably placed to benefit from digital opportunities, as well as to develop and support factors that enhance strategies for adopting ICTs effectively.

## **KEYWORDS**

E-readiness, ICTs, experience, judgment, HEIs

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# CRITICAL SUCCESS FACTORS FOR INFORMATION TECHNOLOGY INFRASTRUCTURE LIBRARY IMPLEMENTATION IN PUBLIC SERVICE ORGANIZATIONS: AN EXPLORATORY STUDY

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## Abstract

In recent years, market competitions and internal efficiency requirements derived many Information Technology (IT) functions to shift their paradigms from IT asset management to IT service management (ITSM). Consequently, a growing number of public and private organizations are implementing the ITIL (IT Infrastructure Library) “best practice” as a framework for improving IT service management processes. This paper presents an exploratory in-depth case study of two public service organizations in the kingdom of Saudi Arabia deemed successfully implemented ITIL V3 processes. The case studies identify several critical success factors (CSF) associated with ITIL implementation success. These CSF are then compared with factors identified in the literature to shed light on success factors and challenges to offer a learning experience for organizations currently undergoing or planning ITIL implementation.

## Keywords

ITIL, IT Service Management, critical success factors, Saudi Arabia, project, process.

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# CAMPUS MANAGEMENT SYSTEM WITH ID CARD USING FACE RECOGNITION WITH LBPH ALGORITHM

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## ABSTRACT

The Face recognition system mentioned is a computer vision and image processing application designed to carry out two primary functions: identifying and verifying a person from an image or a video database. The objective of this research is to provide a more efficient and effective alternative to traditional manual management systems. It can be used in offices, schools, and organizations where security is critical. In the proposed system, initially, all students enrolled in the Academic Year whose information is stored in a database server and released a unique ID Card with their facial image to be a smart campus. The main objective of the proposed system is to automate the time-in, and time-out of students, teachers, staff, and anyone who enters and leaves the campus of the University of Computer Studies, Hinthada (UCSH). This system is implemented with the 405 students in the 2022-2023 Academic Year, 86 permanent staff including the principal whose ID card (Name, Year, Roll No, NRC, Father Name: for students, Name, Rank, Department, NRC, Address: for teachers and staffs). As soon as someone enters the campus of a university, the ID card is scanned, the images of the ID card are captured and the face on the card will be matched with the faces in the trained dataset to detect by using the Haar cascade classifier, and recognize the face using Local Binary Pattern LBPH algorithm. The proposed system demonstrates strong performance, achieving an accuracy rate of over 90% for everyone entering the campus. It is both effective and efficient, providing a smart solution for identification.

## KEYWORDS

UCSH, Face Detection, Face Recognition, Haar Classifier, Local Binary Pattern

Histogram (LBPH).

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