

رسائل الماجستير والدكتوراه التي أجازتها كلية الحاسبات والمعلومات خلال عام ٢٠٢٢م

- نموذج للرسائل العلمية باللغة الإنجليزية:
- أولاً: رسائل الماجستير

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
Khadija Mohamed Abdel-Zaher.	12796056	A Steganography Algorithm Based on Pixel's Value Modification /	Master.-	Adel Abo El,-Maged Sewisy Mohamed, Marghny Hassan Mohammed.-	2022.	24 Cm.	97 P. ;	Steganography is the technique of hiding a secret message inside a normal, non-confidential file or message to avoid detection. The main challenge in steganography is to build a balance system that resists attacks and hide a large amount of data while maintaining high quality. To remove these challenges, many algorithms have been developed, some of which are better than others in a certain direction. In this thesis, an improved steganography approach is proposed where more than one methods is combined to obtain a more secure algorithm with high quality and capacity.

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
Sameera Abubaker saeed Marei.	12777482	Data Storage Security Technique For Android /	Master.-	Marghny Hassan Mohammed, Mamdouh Farouk Mohamed.-	2022.	24 Cm.	81 P. ;	Android-based smartphones have gained immense popularity over the years and are definitely more popular than other operating system phones. However, it is necessary to secure the sensitive data and files that stored in the Android-based devices. In particular, there are several of applications available nowadays in the Google Play store or other app stores. Many suspicious applications try to access the sensitive data and important files. Several approaches proposed to keep unauthorized users away. Cryptography and steganography are two main methods to protect information from unauthorized users. Cryptography is the process to encrypt the data (plaintext) into encrypted data (ciphertext) by using a certain algorithm with secret key. The main goals of thesis: high confidentiality and more resisting against the cryptanalysis attacks in Android-based devices. The two goals are carried out by using the efficient direction of achieving information security which termed as DNA-Based cryptography and One-Time pad (OTP) key that generated randomly.

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
Mohammed Mustafa Abdelgwad Ali.	12788610	Arabic Aspect Based Sentiment Analysis /	Master.-	Taysir Hassan Abdel-Hamid, Ahmed Ibrahim Talouba , Mohammed Fawzy Seddik.-	2022.	24 Cm.	120 P. ;	Aspect-Based Sentiment Analysis (ABSA) accomplishes a fine-regarding analysis that define the aspect of a given document or sentence and the sentiments conveyed regarding each aspect. This level of analysis is the most detailed version that is capable of exploring the nuanced viewpoints of the reviews. The bulk of study in ABSA focuses on English with every little work available in Arabic. The Arabic Language is a rich language in terms of derivational morphology and structural form. The rich morphology leads to large vocabulary, which increases the sparsity of morphemes and words and thus boosts the number of out-of-vocabulary words, making it difficult language to process. Most previous work in Arabic has been based on regular methods of machine learning and mainly depends on a group of rare resources and tools for analyzing and processing Arabic content such as lexicons, but the lace of those resources presents another challenge.

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
Badrya Dahy Abd El-Rahman.	12830654	Semantic Similarity between Arabic Sentences /	Master.-	Kaled Fathy Hussien, Mamdoh Farouk Mohamed.-	2022.	24 Cm.	84 P. ;	Semantic textual similarity is an important field in Natural language Processing (NLP).It's useful in a variety of NLP applications, including information retrieval, plagiarism detection, date extraction, and machine translation. Sentence similarity in the Arabic language has not been investigated deeply because of the lake of the Arabic language resources. This thesis presents a new Arabic dataset for the sentence similarity task. This dataset can be sued to help develop sentence similarity approaches. In addition, the main purpose of the created dataset is to evaluate the sentence similarity approaches. The dataset has been collected from Wikipedia, an intermediate lexicon, and other WWW resources. This thesis gives more details about the processing of collecting data, filtering , preprocessing the pairs of sentences and some statistics about the dataset.

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
Waheed Gameel Gadallah Ghali.	12840056	A Proposed Technique for Distributed Denial of Service Attack Detection in Software- Defined Network /	Master.-	Hosny M. Ibrahim, Nagwa M.Omar.-	2022.	24 Cm.	112 P. ;	Software-Defined Networking (SDN) is a new network architecture that separates the control plane from the data plane . It has central network control, and programmability facilities, therefore SDN can improve network flexibility, management, performance, and scalability. Although SDN has many benefits, it has some security challenges that threaten the proper performance of the network such as distributed denial of service (DDoS) attacks that target attacking the control plane as well as the data plane There are a lot of security methods that defend against DDoS attacks in SDN which include entropy – based , traffic pattern analysis – based , and Machine Learning-based (ML). Entropy and traffic pattern techniques have low overhead but they suffer mainly from the difficulty to adapt the network changes and different network behaviors.

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
George Samy Rady Yakoub .	12840437	Using High Dimensional Computing in Arabic Language Recognition /	Master.-	Khaled F. Hussain, Mamdouh Farouk Mohamed, Sara Salah Mohamed.-	2022.	24 Cm.	142 P. ;	The brain circuit is massive in terms of neurons and neuro-transmitter that huge circuits are the main entity to the brain-core processing. Hyper Dimensional processing depends on the understanding that minds register with examples of neural action that are not promptly connected with quantities. In fact, the mind capacity to analyze numbers is weak, and because of exceptional large circuits, neural processing models are replicated with purposes of large dimensional portion, that is, using hyper-vectors. At the point when the dimensional (D) in the large numbers (for example, D is equal to ten thousand. It is called hyper dimensional. Hyper -vector are holographic and randomly processed with independent-and-identically-distributed tools. A hyper-vector includes whole data merged as well as spread over the entirety of its pieces in a full all-encompassing portrayal, so no spot is more dependable to store any snippet of data compared to others.

● ثانياً: رسائل الدكتوراه

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
Majid Ahmed JadElrab Alsayed Askar .	12777037	Query Processing In Ontology Based Data Access Systems /	Doctor.-	Adel Sewisy, Taysir Hassan A. Soliman, Birgitta Konig – Ries,Alsayed Algergawy.-	2022.	24 Cm.	155 P. ;	Ontology-Based Data Access (OBDA) enables semantic access to a set of heterogamous data sources, supporting data sharing, exchanging, and integration across these data sources. In the OBDA scheme, normally formal query languages, such as SPARQL, are used to present the user questions, which limits end users from defining their requests. To cope with this problems a layer that accepts the users request in her own language and transforms it into one of these formal languages has become a necessity. To this end, we introduce a new and interactive method that guides the users during the translation. The proposed approach makes use of the capabilities of natural language processing and semantic information embedded in the domain ontology.

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
Soha Abd El-Moamen Mohamed El-Zohney Hassan .	12777427	Constructive Learning of Deep Neural Networks for Bigdata Analysis /	Doctor.-	Marghny Hassan Mohamed, Mohammed Fawzi Seddik.-	2022.	24 Cm.	105 P. ;	<p>In recent years, many neural-network models have been proposed for pattern classification, function approximation and .regression problems</p> <p>Among them, the class of multilayer feedforward networks is perhaps the most popular. Methods using standard backprop perform gradient descent only in the weight space of a network with fixed topology. In general, this approach is useful only when the network architecture is chosen correctly. Too small a network may not be able to capture the characteristics of the training samples, but too large a size will lead to overfitting and poor generalization performance. With increasing of available data, the classification of large data volumes needs more depth in the structure of neural networks. These special structure of Feedforward Neural Networks (FNN) are called Deep Neural Networks (DNN) and that have nowadays a great success in several applications such as biological data, breast cancer diagnosis and medical imaging, rotating machinery diagnosis of real-life applications such as pedestrian detection.</p>

Name	ID	Title	Theses	Supervisors	Year	Size	Pages	Summary
Omar Sabah Mohamed .	127885009	Knowledge Discovery Using Evolutionary Algorithms /	Doctor.-	Adel Abo El,- Maged Sewisy Ahmed Ibrahim Talouba.-	2022.	24 Cm.	112 P. ;	Data clustering is one of common data mining techniques that is used for retrieving useful information from a particular dataset. Data clustering involves selecting the K-cluster centers randomly and grouping that data around those centers. Clustering techniques have been used in many areas such as image processing, document clustering, geophysics, prediction, marketing and customer's analysis, agriculture, security and crime detection, medicine, anomaly .detection and biology Recently, nature-inspired algorithms have been proposed and implemented for handling the optimization problems in general, and data clustering problem in particular. The nature-inspired algorithms could be classified into Evolutionary Algorithms (EAs), Bio-Inspired, Human-Inspired Algorithms and Physics- Inspired Algorithms, Genetic Algorithms (GA) is one of the most popular EAs, and the optimization algorithms in general.