الخطة البحثية لقسم تقنيات انظمة الحاسوب								
ملخص عن النتاج	عنوان النتاج	العام الدراسي	جهة النشر	موقف النتاج	الشهادة	اللقب العلمي	اسماء الباحثين	Ü
Heach period is composed of three stages. First, the sensor readings are collected and saved							Ali Kadhum Idrees	
		IEEE Middle East and North Africa	منشور	دكتوراه	أستاذ مساعد	Wathiq Laftah Al-Yaseen	1	
	2019	2019	communic ations eriodic Vireless Sensor				Mohamad Abou Taam	
							Oussama Zahwe	
Itor Hnerov							Ali Kadhum Idrees	
	2018-	IEEE	. منشور			Ali Kadhum M. Al-Qurabat	2	
	saving Data Aggregation in Wireless Sensor	2019	ILLL	<i></i>			Chady Abou Jaoude	
					دكتوراه	ستاذ مساء	Wathiq Laftah Al- Yaseen	

method shows higher efficiency in the prediction of structural class of protein, and its	PSO Feature Selection and ELM Algorithm for Protein Classification based Secondary Structure and Hydropathy Profile	2019-	Journal University of Kerbala	منشور	دكتوراه	ستاذ مساء	iq Laftah Al-Y	7.a 3
The nowadays growing of threads and intrusions on networks make the need for developing efficient and effective intrusion detection systems a necessity. Powerful solutions of intrusion detection systems should be capable of dealing with central network issues such as huge data, high-speed traffic, and wide variety in threat types. This paper proposes a wrapper feature selection method that is based on firefly algorithm and support vector machine. The firefly optimization algorithm has been effectively employed in diverse combinatorial problems. The proposed method improves the performance of intrusion detection by removing the irrelevant features and reduces the time of classification by reducing the dimension of data. The SVM model was employed to evaluate each of the feature subsets produced from firefly technique. The main merit of the proposed method is its ability in modifying the firefly algorithm to become suitable for selection of features. To validate the proposed approach, the popular NSL-KDD dataset was used in addition to the common measures of intrusion detection systems such as overall accuracy, detection rate, and false alarm rate. The proposed method achieved an overall accuracy of 78.89% compared with 75.81% for all the 41 features. The analysis results approved the effectiveness of the proposed feature selection method in enhancing network intrusion detection system.	Improving Intrusion Detection System by Developing Feature Selection Model Based on Firefly Algorithm and Support Vector Machine	2019- 2020	IAENG Internation al Journal of Computer Science	منشور	دکتوراه	ستاذ مساء	iq Laftah Al- Y	7a 4

Generally, the things that have the great role in facilitating the emergence of internet-connected sensory devices can be embodied in the developments that happen in the sphere of software, hardware, and communication technologies. The internet-connected sensory devices present perceptions and measurements of data from the real world. It is suggested that nearly through 2020, the total use of internet-connected devices may reach to 25 to 50 billion. Actually, the relation between technologies and the volume of data being published is kept in one line. That is, if there is growth in the technologies, the volume of the data will be increased. Such technology, i.e. internet-connected devices, can be called as Internet of Things (IoT). Its role is to connect the real world with the cyber one. Furthermore, generating great data with velocity as its main characteristic will help in increasing the volume of IoT. To develop smart IoT applications, one can use such intelligent processing and analyzing such big data. In this paper, we tend to study the impact of implementing machine learning (ML) algorithms and methods and their efficiency in the IoT domain. As well as explore how these algorithms help in founding efficient backbone solutions to analyze and estimate the huge amounts of data that are expected to arise in the coming few years due to the rapid growth on demands for IoT based applications.	Learning Algorithms for	2019-	Periodicals of Engineerin		ماجستير	مدر س مساعد	Qusay Abdullah Abed	
					ماجستير	مدر س مساعد	Mohammed Thajeel Abdullah	
				، منشور	ماجستير	مدر س مساعد	Huda Jalil Dikhil	5
		g and Natural Sciences	,					
Cell Formation (CF) problem is considered as the most important issue in the cellular manufacturing system. Self Organization Map (SOM). It's used	Self- Organization Map		Journal University of Kerbala	منشور	ماجستير	مدر س مساعد	عمار جهاد	6
	Applied for the Design of Cell Formation in a Cellular Manufacturing System	2018-			دكتوراه	أستاذ مساعد	د.سناء حمزة	
Cell Formation (CF) problem considers as the most important issue in the Cellular Manufacturing	HEURISTIC METHOD FOR SOLVING CELL FORMATION PROBLEM IN CELLULAR	2018- 2019	The Iraqi Journal For Mechanica I And Material Engineerin g	۰ منشور	ماجستير	مدر س مساعد	عمار جهاد	
	MANUFACTURI NG SYSTEM BASED ON HAMMING DISTANCE				دکتوراه	أستاذ مساعد	د سناء حمزة	