



## الاستاذ المساعد أحمد محمد مال الله الصفار

قسم هندسة الحاسوب

ماجستير علوم حاسبات – رئيس القسم

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### الشهادات العلمية

الدكتوراه ، جامعة .....، السنة  
الماجستير، الهيئة العراقية للحاسبات/ معهد الدراسات العليا 2001  
البكلوريوس، جامعة الموصل السنة 1978-1979

### التاريخ الوظيفي

**(نبذة شخصية: 4-5 اسطر عن التاريخ الوظيفي او التعريف بالخبرة والاختصاص او العناوين الوظيفية حسب السنين)**

العمل في مجالات الحاسبات منذ عام 1979 ولحد اليوم  
التدريس في عدة كليات أهلية (كلية المنصور- بغداد للعلوم الاقتصادية - مجلة)  
التدريس في اقسام وكليات عدة في الجامعة العراقية  
تأسيس ورئاسة قسم علوم الحاسبات في كلية التربية-الطارمية  
المساهمة بتأسيس كلية الهندسة -الجامعة العراقية  
المساهمة بتأسيس دراسة الماجستير في كلية الهندسة  
الأشراف على عدة بحوث تخرج لطلبة الدبلوم العالي  
شهادة مايكروسوفت في مجال خوادم 2003  
شهادة باجتياز امتحان IC3  
شهادة باجتياز امتحان اللغة TOEFL  
نشر 12 بحث في مجال الاختصاص

### التدريس

**(تذكر المواد الدراسية التي يدرسها التدريسي الان مع موجز بسيط عن كل منها)**  
مادة نظم التشغيل

### الاهتمام البحثي

**(تذكر مجالات البحث العلمي السابقة والحالية بشكل نقاط)**

الاهتمام بالمجالات البحثية في مجالين

1- امنية المعلومات

2- نظم التشغيل

## **Published Researches:**

### **1- Research in Information Technology and communication entitled**

**" Method of Segment Hierarchical Coordination Routing in Multi-Area Network "**

**Published by " IEEE (Journal, Magazine, Conference, Book):  
2nd International Conference Advanced Information and Communication Technologies -  
(AICT-2017) July 4 – 7 - 2017**

**The method of segment hierarchical coordination routing in multi-area network has been proposed.  
The basis of the proposed method is the flow-based model of inter-area routing and goal  
coordination principle.**

**Keywords—network; flow; coordination; routing; area; model; method**

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### **2- Research in Operating System entitled**

**" The Side of Shortest Remote Request First (SSRRF) as a Strategy to Enhance LOOK  
Algorithm ",**

**Published by " Journal of Advanced Computer Science and Technology Research, Vol.4  
No.2, June 2014, 40-49, JACST ", in Jun, 2014.**

#### **ABSTRACT**

**The proposal succeeded in achieving the reduction of the total seek time for LOOK  
algorithm by solid estimation method to determine the suitable track of head movement  
to serve requests resided at the side of the shortest remote request firstly to achieve its  
goal.**

**Key Words: Disk Scheduling Algorithm, Shortest Remote Request, LOOK Algorithm, Total  
Seek Time, Head Movement.**

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### **3- Research in Cryptography entitled**

**" Implementing New Serial Control as Nonlinear Function for Key Stream Pseudo-random  
number Generator",**

**Published by " Alrafideen College Magazine ", in Jun, 2014.**

<https://www.semanticscholar.org/author/Ahmed-Mohamed-Mal-Allah-Al-Suffar/1414087246>

**ABSTRACT**

*practically, a strong cryptographic key stream pseudo-random number generator was obtained in this research which provides a substantial increase of complex nonlinearities, leads to the best development of randomness statistical property output sequences, passed all statistical tests successfully, and has large linear equivalence to prevent correlation attacks.*

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**4- Research in Operating System entitled**

*" Demand Process-Time for Alternative Set of Multilevel Stacks for CPU Scheduling",*

*Published by " Foundation of Technical Education 12th Scientific Conference", in Sept, 2009.*

**ABSTRACT**

*The objective of the research is to propose the suitable solution as a novel algorithm called "Demand Process-Time for Alternative set of Multilevel Stacks for CPU Scheduling" to prevent a process starvation occurring. The idea is performed by having two similar sets of multilevel stacks. Each set allocates the processor for sufficient interval time to process the all jobs within its stacks before leaving it to alternative set of stacks. Therefore, herein, through this interval time all the new incoming jobs will be resided in corresponding stack level in alternative set and Vice versa, in second interval all the new incoming jobs will be resided in corresponding stack level in main set.*

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**5- Research in Operating System entitled**

*"Hybrid CP Scheduler algorithm (RR & SJF)", Issued in Sept, 2009.*

*Published in " Journal of Al-Rafideen College University",*

*Volume ----, April, 2011*

**ABSTRACT**

*The proposed algorithm is implemented through an innovative optimal equation to adapt time quantum factor for each process in each round as a periodic quantum (occurred at irregular intervals). That is while applying proposed algorithm, mathematical calculations take place to have particular time quantum for each process.*

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**6- Research in Mathematic entitled**

*"Stability of continuous and discrete time",*

*Issued in December, 2008.*

*Published in "Journal of Baghdad College of Economic Sciences",*

*Volume 25, November, 2010*

**ABSTRACT**

*This research is devoted to study particular stability of linear systems; continuous time and discrete time.*

*The definition is introduced for stability of linear systems therefore we studied properties of this system. For the definition and proposition of ordinary case the research referred to the updated reference.*

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**7- Research in Cryptography entitled**

*"DES-Key Enhancement",*

*Published in " Journal of Baghdad College of Economic Sciences",*

*Volume15, April, 2007.*

**ABSTRACT**

*The major purpose of the research is to fulfill enhancement to DES algorithm by sophisticating its key procedure in order to increase overall computational complicity and to create new individual not to be breakable as easy as with published standard DES.*

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**8- Research in Operating System entitled**

*"Disk Scheduler Circular Shortest Seek Time First ( C-SSTF)",*

*Published in " Journal of Baghdad College of Economic Sciences",*

*Volume 14, January, 2007.*

**ABSTRACT**

*The basic idea behind this novel algorithm is to give the disk I/O request improving performance by new intelligent scheduler of disk accessing so that optimizing head movement to guarantee fairness in response time and treat all I/O requests equally.*

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**9- Research in Security entitled**

*"Zero-knowledge Triple-Password protocol",*

*Published in " Journal of Baghdad College of Economic Sciences",*

*Volume 13, September, 2006.*

**ABSTRACT**

*The research's objective is practically to create a novel algorithm; Zero-knowledge Triple-Password protocol, each one of three passwords consists of (8) random numbers which is defined in the system, complicated strongly by selective encryption system and to be after that stored within the proposed system.*

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**10-Dissertation in cryptography entitled**

**"Hybridizing Traditional Key Stream Generator with Neural Net Technique",**

*A thesis submitted to the Informatics & Computer Corps / Higher Educational Institute of Computer & Informatics, A Partial Fulfillment of the Requirements for the Degree of Master in Computer Science,*

**النشاطات العلمية**

**أية معلومات أخرى مثل الانتماء الى الجمعيات العالمية والمحلية او ادارة تحرير مجلة او غيرها)**

- **Member of Iraqi Teachers Union in 2011.**
- **Member of the Computer and Informatics Association for Colleges, Iraqi branch, 2009.**
- **Member of the Iraqi Information Technology Association, Iraq, 2009.**
- **Member of Computer Science conference, Poznan University, Poland, 2002.**
- **Member of many yearly Academic scientific conferences for computer science.**
- **Member of the Iraqi Association for Parapsychology, Iraq, 1992.**
- **Member of the Iraqi Association for Computer Science, Iraq, 1980.**