Curriculum Vitae

Contact information

Name: Ali Hussein Ahmed Bekhit

Date of Birth: 29/8/1987

Place of Birth: Egypt – Assiut – Al Ghanaium

Nationality: Egyptian Military Status: Exempted

Emails: ali.hussein@aun.edu.eg, ali.hussein@aun.edu.eg, ali.hussein@aun.edu.eg, ali.hussein@aun.edu.eg, ali.hussein@aun.edu.eg, ali.hussein@aun.edu.eg, ali.hussin.it@gmail.com
Telephones: Mobile: +201280324830, +201026697937

Graduation Degree: Excellent (hons)
Graduation Project Degree: Excellent

Current Professions:

- Lecturer in Faculty of computers and information—Information Technology Department Assiut University since 5-12-2021.
- Manager of Online Learning Sector&IT in ITTU since 1-11-2021
- Executive Head of Computer Consulting Center Assiut University since Feb 2020
- General Supervisor of Assiut University Hospitals IT Uniit since Jun 2017



Research Gate:

https://www.researchgate.net/profile/Ali Ahmed38>

Google Scholar:

https://scholar.google.com.eg/citations?user=jSLl6GkAAAAJ&hl=ar

AUN Profile:

http://www.aun.edu.eg/arabic/membercv.php?M_ID=4260

Education

Year of Completion	Educational Institute and Country	Degree
2008	Faculty of Computers & Information- Egypt – Assuit University	B.Sc. Information Technology with honors rank
2010	Faculty of Computers & Information- Egypt – Assuit University	Finished pre-master Study Grade: 88.2%
2013	Faculty of Computers & Information- Egypt – Assuit University	M.Sc. Information Technology
2016	Faculty of Computers & Information- Egypt – Assuit University	Finished pre-PhD Study Grade: 82%
2021	Faculty of Computers & Information- Egypt – Assuit University	Ph.D. Information Technology

Research Interests

- Wireless Sensor Networks.
- IoT, SDN, SDR
- Networks
- Cognitive Radio/Next Generation Networks
- Steganography & Cryptography
- Video analysis
- Computer Vision
- Multimedia
- Image processing & analysis
- Face Recognition



Technical Skills

Programming Languages

- C#.Net
- C++ & MFC.
- Java.
- Python 2, 3
- Fair Knowledge Of OpenAL, OpenCV, OpenGL and DirectX.

Web Technologies :-

- ASP.Net, ADO.Net .
- JSP, Servlets and JDBC
- Django
- Web publishing
- HTML, XHTML.
- Moodle Framework

Development Tools and Development Environments:-

- Microsoft Visual Studio
- NetBeans

Database Management Systems

- Microsoft Access.
- Microsoft SQL Server.
- MySQL

Case Tools

- IP Switch What's UP.
- Packet Tracer, Ethereal, WireShark.

Operating Systems

- Windows Platforms
- Linux Platforms (Debian, Ubuntu, RaspbianJessie)

Productivity Suites

Microsoft Office

Soft Skills

- Ability to work in groups .
- · Good Research Abilities.
- Planning and organization.
- Grading

Conceptual knowledge

- Object Oriented Concepts.
- Software Engineering Concepts .
- System Analysis and design Concepts.
- Database designing Concepts.

- Distributed Systems Concepts.
- Computer Security Concepts.

Courses I can Teach to students

- Programming Fundamentals
- IT Fundamentals
- O.O.P
- File Organization
- Data And Computer Communication
- Structured Programming
- Web Programming
- Network Programming
- Network Analysis And Design
- Network Management
- Multimedia Systems
- Data Compression
- Image Processing
- Operating Systems
- Security

Language Skills

Language	Excellent	<u>Ability</u> Very Good	Good	Fair
English		√		
Arabic	√			

Master Research

• Routing in wireless sensor networks using genetic algorithm

Current/PhD Research

IoT Security

PROJECTS MEMBERSHIPS 2009-Current

Hardware and Software maintenance of the project entitled "Online Learning Utilizing Video Conferencing and HP mobile technology at the Faculty of Computers and Information-Assiut University (OLVCHP, FCI-AU) " Funded by HP.

Project Website: http://www.aun.edu.eg/faculty_computer_information/hplab/team-members.html

PARTICIPATION IN DEVELOPING COURSES/PROGRAMS/CURRICULUM/PLANS

2010-current

Member in the team that prepares and outlines the faculty of Computers and Information curriculum in credit hour

2010-current

Member in the team that modify the program and courses contents for the faculty of Computers and Information 2004 curriculum

Accomplishment

Graduation Project			
Title	Client / Server Application – Smart Door Access System		
Description	System centralized on solving the problem of entrance control to faculties, banks or any other secure corporation. Such system manages Barcode readers, attached to each door, and opens the doors for registered users only. A server computer holds the lists of doors and users; it has a graphical interface that can be accessed by administrator. The system supports multiple doors, multiple users.		

Other Projects				
Tile	Description	Tools		
Egypt Metro Control System	System based on using RFID technology for managing and controlling Egypt metro Embarking and disembarking of passengers. Such system divided into two main parts the first is Issuing and administration, the second is for monitoring each satiation (check tag expire date and subscription type, etc). This project funded by ITIDA	C# Socket programming ADO.net		
Drawing tool	Implementation Of the Basic Computer Graphics Algorithms for drawing Objects as (Circles, rectangles, squares,etc)	Version With C++ API Version With C#.Net Version With Java		
Computer Vision Tool (Simple OCR)	Program that takes binary image extract Contours and Recognize Digits written by hand or machine with success ratio of 86.6 %.	Version With C#		
Image Processing Tool	Perform large number of Image Processing Techniques for image operations, Filtering, equalization, Edge detection, and other enhancement techniques. (Tiny Photoshop with advanced operations)	Version With C#		
Chatting Program	Something like MSN Messenger, Which supports muli- client with text, audio and video chatting	Version With C# Sockets Version With Java Sockets		
Dormitory Automation system	Performs management of <i>Assiut</i> Dormitory.	C#.Net + Crystal Reports		
Smart Screen Saver	An application that is based on the recognition of human face with error ratio of 40%.	OpenCV, C++, C#.Net		
Morris Code Converter	Application that converts text to Morris code and vice versa.	C++ MFC		
Voting System	Automated system for collecting surveys and visualization of student's opinions. This project funded by QASP	C#		
Dashboard for Assiut University Vice	An asp.net based website that provides a set of statistics useful in high-level decision making.	C#.net , SQL server		

president for high studies		
برنامج ادارة شئون الطلاب والكنترول	A desktop based application for managing students grades in Assiut university. The system also keeps track of students' subjects' registrations and academic records. قلانامج مفعل في الكليات الاتية حقوق البرنامج منعل في الكليات الإتياد والمنافذ	C#.net, SQL server
Manuscript management System	System to manage all aspects of manuscript submissions cycle (submission , reviewing , publishing)	Asp.net , sql server
IoT Testbed	Design and implementation of an educational testbed for IoT nodes. Funded by NTRA	Django, Python 3, Rp
برنامج لكشف الاقتباس بين ابحاث الطلاب	برنامج یهدف لمعرفة مدی التشابه بین ابحاث الطلاب بهدف مساعدة اعضاء هیئة التدریس فی تقییم ابحاث الطلاب متاح علی الرابط http://www.aun.edu.eg/QuotationProgram.rar	C#.net
برنامج ادارة الدراسات العليا	مفعل فی کلیة التمریض ج اسـیوط	Php, mySQL
موقع السكن بالليلة للمدينة الجامعية	مفعل بنظم المعلومات الادارية	C#.net, SQL server
موقع الألتماسات للمدينة الجامعية	مفعل بنظم المعلومات الادارية	C#.net, SQL server
موقع تنسيق رغبات الأطباء للوظائف الأكاديمية وطبيب مقيم	مفعل بمركز استشارات الحاسب	C#.net, SQL server

About my M.Sc

Title: A Robust Technique for Dynamic Routing in Wireless Sensor Networks based on Genetic Algorithm.

Abstract: Wireless sensor networks (WSNs) are considered the subject of the era due to its importance and wide applications. The last decade of research focused on how to improve its performance in terms of enlarging lifetime. Many WSN applications such as monitoring and reporting are time critical so, the performance of WSN can not only include lifetime, but also other performance measures such as delay must be taken into consideration as well.

The proposed work focuses on the WSN network layer which includes routing techniques as a main key in most WSN applications. A routing technique based on virtual

rings and genetic algorithm is proposed to shorten the round delay time and maximizing the lifetime. This technique uses the virtual ring features in addition to clustering methods to divide the sensors in the network into groups containing nearby sensors. The main advantage of this proposed technique is that it maximizes the interval of the first node failure besides obtaining a reasonable delay in forwarding data to sink node through the usage of the virtual rings. The proposed technique enables sensor network to continue its operation during the continuous sensor failure without extra control packets by using alternate hops. The proposed technique operates on the base station only to save sensor's resources and indeed the power consumption.

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About my PhD:

Title: Secured IoT Framework

Abstract:

Internet of Things [IoT] enables a great number of heterogeneous internet-enabled devices to communicate through different protocols and network technologies. The last few years witnessed rapid improvements in IoT applications in different fields e.g. smart energy, public safety, smart farming and smart health. The recent research work focused on how to dynamically manage and secure IoT components across heterogeneous objects, transmission technologies, and networking architectures through proposing various IoT protocol stacks and security techniques. The need for standardized protocol stack increases interoperability and applications development. Many technologies such as software defined networks [SDN], Cloud, and Fog computing have integrated either to IoT applications or architectures to maintain or secure large scale and heterogeneous IoT networks.

The heterogeneous nature of IoT is a key challenge against developing secured standards which indeed limits the interoperability in maintaining and developing new solutions for IoT. Recently many frameworks is utilized to secure IoT such as PKI and Blockchain (BC) but the limited IoT devices' capabilities hinder the direct integration of these frameworks. PKI is utilized in various research work to secure the communications of IoT devices. The main issue that must be sustained during establishing secured frameworks is offloading IoT devices as much as could in addition to moving heavy computations away the devices. Ordinary and centeralized methods for keeping security such as rely on Certificate Authorities (CA) can help on offloading IoT devices but unfortunately does not scale. BC is a

modern and distributed writeonly ledger that eliminates the need for third parity to secure and verify transactions between peers. Though BC is considered the most powerful technique for securing transactions between IoT devices.

This thesis presents fair review to the IoT standardization efforts in addition to the modern proposed secured IoT architectures and sheds the light on the converging technologies to IoT such as SDN, cloud and fog computing and their effect on IoT architectures. The thesis also introduces PKI based secure framework for securing the service discovery and enable secured service delivery. The framework presents a secured broker based, and trustworthy service discovery technique. This framework providers via implementing trust-management model, and securing further communications between service provider and consumer via generating and distributing session keys.

The thesis also proposes a secure BlockChain-based framework for monitoring applications. The main entities of the framework are a system administrator, user, and IoT devices. System administrator configures IoT devices and defines a set of access roles for the IoT device. After the setup phase, a smart contract is deployed into the BC via device gateways to define and manage user access for specific device. An initial set of commands (commonly associated with environmental and healthcare monitoring applications) are defined in the proposed framework. The commands are: 1) Start Logging, 2) Stop Logging, 3) Obtain timestamped value, 4) Set threshold for automatic actuating, and 5) Actuate. Transactions are considered as an execution of specific commands performed by users on IoT devices. In this work, gateways are treated as minors and can verify transactions in BC. While the BC is public and anyone can access the gateway, the gateway allows only authorized user to access the IoT device as enforced in the smart contract. BlockChain stores the transactions in blocks followed by closing it through a proof-of-work (PoW). The block finally is attached to the BlockChain. In order to test the proposed architecture, a private Ethereum testnet is used including system performance measurement. The proposed framework contributes and addresses the security, transparency, and lightweight by introducing secured IoT architecture with well defined and functional set of layers. The proposed framework architecture includes Blockchain layer. The main function of this layer is to manages all aspects of security among IoT nodes. Every group of IoT devices is assumed to have a gateway which acts as a BC node. Every transactions held in the network executes certain smart contract to ensure its Validity utilizes a broker software running on devices gateway to gain advantages of edge computing in offloading IoT devices from implementing heavyweight security algorithms. The main tasks of a broker are:network initialization, accurately matching users to providers.

My Recent Publications:

Mahmoud Afifi, Mostafa Korashy, Ebram K William, Ali H Ahmed, Khaled F Hussain, "Cut off Your Arm: A Medium-Cost System for Integrating a 3D Object with a Real Actor", International Journal of Image, Graphics and Signal Processing (IJIGSP), 2014. Ali H. Ahmed, Mahmoud Afifi, Mostafa Korashy, Ebram K. William, Mahmoud Abd El-sattar, Zenab Hafez, OCR System for Poor Quality Images Using Chain-Code Representation, Advances in Intelligent Systems and Computing, Springer, Vol 407, 151-161, http://link.springer.com/chapter/10.1007/978-3-319-26690-9_14, 2015. Mahmoud Afifi, Mostafa Korashy, Ali H. Ahmed, Zenab Hafez, Marwa Nasser, Telepresence Robot Using Microsoft Kinect Sensor and Video Glasses, Advances in Intelligent Systems and Computing, Springer, Vol 407, 91-101, NULL, November, 2015. Islam A. T. F. Taj-Eddin, Mahmoud Afifi, Mostafa Korashy, Ali H. Ahmed, Yoke Cheng Ng. Evelyng Hernandez, Salma M. Abdel-Latif, "Can we see photosynthesis? Magnifying the tiny color changes of plant green leaves using Eulerian video magnification," Journal of Electronic Imaging 26(6), 060501 (2 November 2017). https://doi.org/10.1117/1.JEL26.6060501. Submission: Received: 23 June 2017; Accepted: 12 October 2017 Ali H.Ahmed, Nagwa M. Omar, Hosny M. Ibrahim, "Modern IoT Architectures Review: A Security Perspective", Conference: 8th Annual International Conference on ICT: Big Data, Cloud and Security (ICT-BDCS 2017). August 2017, DOI: 10.5176/2251-2136 JCT-BDCS17.30. Ali H.Ahmed, Nagwa M. Omar, and Hosny M. Ibrahim, "Secured Service Discovery Technique in IoT," Journal of Communications, vol. 14, no. 1, pp. 40-46, 2018. Doi: 10.12720/jcm.14.1.40-46 A. H. Ahmed, N. M. Omar and H. M. Ibrahim, "Secured Framework for IoT Using Blockchain," 2019 Ninth International Conference on Intelligent Computing and Information Systems (ICICIS), Cairo, Egypt, 2019, pp. 270-277, doi: 10.1109/ICICIS46948.2019.9014833. A. H. Ahmed, N. M. Omar and H. M. Ibrahim, "Performance Evaluation of a secured IoT framework using Blockchain", Journal of Commu		
Image, Graphics and Signal Processing (IJIGSP),2014. Ali H. Ahmed, Mahmoud Afifi , Mostafa Korashy, Ebram K. William, Mahmoud Abd El-sattar, Zenab Hafez, OCR System for Poor Quality Images Using Chain-Code Representation, Advances in Intelligent Systems and Computing , Springer, Vol 407 , 151-161, http://links.pringer.com/chapter/10.1007/978-3-319-26690-9_14, 2015. Mahmoud Afifi , Mostafa Korashy, Ali H. Ahmed, Zenab Hafez, Marwa Nasser, Telepresence Robot Using Microsoft Kinect Sensor and Video Glasses, Advances in Intelligent Systems and Computing , Springer, Vol 407, 91-101, NULL. November, 2015. Islam A. T. F. Taj-Eddin, Mahmoud Afifi, Mostafa Korashy, Ali H. Ahmed, Yoke Cheng Ng, Evelyng Hernandez, Salma M. Abdel-Latif, "Can we see photosynthesis? Magnifying the tiny color changes of plant green leaves using Eulerian video magnification." Journal of Electronic Imaging 26(6), 060501 (2 November 2017). https://doi.org/10.1117/1.JEL.26.6.060501. Submission: Received: 23 June 2017; Accepted: 12 October 2017 2017 Ali H.Ahmed, Nagwa M. Omar, Hosny M. Ibrahim, "Modern IoT Architectures Review: A Security Perspective", Conference: 8th Annual International Conference on IcT: Big Data, Cloud and Security (ICT-BDCS 2017). August 2017, DOI: 10.5176/2251-2136_ICT-BDCS17.30. Ali H.Ahmed, Nagwa M. Omar, and Hosny M. Ibrahim, "Secured Service Discovery Technique in IoT," Journal of Communications, vol. 14, no. 1, pp. 40-46, 2018. Doi: 10.12720/jcm.14.1.40-46 2019 A. H. Ahmed, N. M. Omar and H. M. Ibrahim, "Secured Framework for IoT Using Blockchain," 2019 Ninth International Conference on Intelligent Computing and Information Systems (ICICIS), Cairo, Egypt. 2019, pp. 270-277, doi: 10.1109/ICICIS46948.2019.9014853. Mahmoud AbdelHafeez, Ali H. Ahmed and Mohamed AbdelRaheem, "Design and Operation of a Lightweight Educational Testbed for Internet of Things Applications", IEEE Internet of things Journal	2014	Mahmoud Afifi, Mostafa Korashy, Ebram K William, Ali H Ahmed, Khaled F Hussain, "Cut off Your
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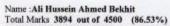
Certificates:



Faculty of Computers and Information Department Of Information Technology

Certificate

Graduation Date:: June 200 Grade Point Average: Distir



First Year 2	004/2005	
Subject	Date Of Exam	Grade
Introduction To Computers	2005	V.Good
Electrical and Electronic Circuits	2005	Distinction
Mathematics (1)	2005	Distinction
Physics (1)	2005	Distinction
English Language	2005	V.Good
Organizational Behavior	2005	Distinction
Structured Programming	2005	Distinction
Digital Logic Design	2005	Distinction
Mathematics (2)	2005	V.Good
Physics (2)	2005	Distinction
Accounting	2005	V.Good
Business Administration	2005	Distinction
Total Marks & General Grade	870 / 100	0 Distinction
Third Year 2	006/2007	
Subject	Date Of	Grade

Third Year 2006/2007			
Subject	Date Of Exam	Grade	
Visual Programming	2007	(Good)	
Software Engineering	2007	Distinction	
Analysis & Design of Algorithms	2007	Distinction	
Formal Languages & Automata	2007	V.Good	
Scientific Computations	2007	Distinction	
Systems Analysis and Design	2007	Distinction	
Operating Systems	2007	V.Good	
Computer Graphics	2007	(Good)	
Analysis of Programming Languages	2007	(Good)	
Artificial Intelligence	2007	(Good)	
Information Systems	2007	V.Good	
Computer Networks	2007	Distinction	
Total Marks & General Grade	980 / 120	0 (V.Good)	

Second Year 2		
Subject	Date Of Exam	Grade
Object Oriented Programming	2006	Distinction
Data Structures	2006	V.Good
File Organization	2006	Distinction
Computer Organization	2006	Distinction
Mathematics (3)	2006	Distinction
Report Writing	2006	V.Good
Database Concepts	2006	V.Good
Data Communication	2006	Distinction
Microprocessors and Assembly Programming	2006	Distinction
Discrete Mathematics	2006	Distinction
Statistical Analysis and Applications	2006	V.Good
Professional Ethics and Legal Aspects	2006	Distinction
Total Marks & General Grade	955 / 1100 Distinction	
Fourth Year 2	007/2008	NAME OF TAXABLE PARTY.
Subject	Date Of Exam	Grade
Network Management	2008	V.Good
Network Analysis and Design	2008	V.Good
E-commerce	2008	V.Good
Multimedia Systems	2008	Distinction
M -1 0 1	2008	Distinction
Elective Course I		
Web Site Development	2008	Distinction
	2008 2008	Distinction Distinction
Web Site Development		
Web Site Development Network Security	2008	Distinction
Web Site Development Network Security Network Programming	2008 2008	Distinction

This certificate is issued upon his request

Director of Educational Affair
Moglow M. parsing
Mostafa Mahmoud Hassn

Total Marks &

General Grade

Project

The Dean Prof. Dr. Yousef B. Mahdy

2008 Distinction

1089 / 1200 Distinction



1/B Nº 0009452

Certificate



The Faculty of Computers and Information , Assiut University certifies that

Mr: Ali Hussein Ahmed Bekhit

Has been granted the Bachelor Degree of Computers and Information Majoring in : Information Technology (IT) On June 2008

His total marks are (3894) out of 4500 (86.53%)
With Accumulated Grade Point Average:(G PA) (Distinction With Honor)

Date of the Faculty's Council approval 18/7/2008 Date of the University's Council approval 24/7/2008

Note; The language of Instruction in all courses, materials and exams was in English.

This certificate is issued upon his request

Registrar

Mestafa M. Hazan Mostafa Mahmoud Hasan

Dear

Prof. Dr . Yousef B. Mahdy









This is to certify that MR/ Ali Hussein Ahmed Bekhit was awarded the M.Sc Degree in Computers and Information (Information Technology) on 31 / 3 / 2013 from the Faculty of Computers and Information, Assiut University, Egypt. The title of the thesis was:

" A Robust Technique for Dynamic Routing in Wireless Sensor Networks based on Genetic Algorithm "

He studied the following courses in English Language and his grades were:

Subject	Grade
1-Modern Computer Architectures	Distinction
2- Data Compression	V. Good
3-Computer Forensics	V. Good
4-Elective Course (1)(Client/Server Applications Development)	V. Good
5-Elective Course(2)(Virtual Reality Systems)	Distinction

Assiut: 13/11 /2013 Registrar Zeinal



Dean

Prof. Yousef B. Mahdy

جامعة اسيوط المدراسات العليا المدراسات والعلومات

