# *SAMAR TAHA YOUSIF*

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**EDUCATION**

| Degree Received | Area of Study | Name of Institution and Address | Date Received |
|---|---|---|---|
| Master | Information Engineering | Al-Nahrain University Baghdad / Iraq | 30 March 2011 |
| Bachelor | Information Engineering | Al-Nahrain University Baghdad / Iraq | 30 June 2008 |

**EXPERIENCE (Full Time Position, Temporary Assignment, Paid/Unpaid Internships)**

| Begin and End Date | Name of Institution or Organization and Address | Date Received |
|---|---|---|
| 27 September 2009 – 2 May 2010 | Lecturer at college of Information Engineering / Al- Nahrain University Baghdad / Iraq | 27 Mach 2011 |
| Started at 1 September 2011 ongoing | Lecturer at Baghdad College of Economic Science / Computer techniques Engineering | |

**PUBLICATION: BOOKS AND ARTICLES APPEARING IN PERIODICALS and PROFESSIONALS JORNALS**

| Name of Article or Book | Subject of Article or book | Publication Citation |
|---|---|---|
| Decision Support System for Routing Optimization Problem | Finding shortest path between source and destination nodes based on Dijkstra routing algorithm which was applied based on two factors: Distance and Centrality of the node | Kufa Journal for Maths and Computer Science Kufa University Najaf / Iraq |
| Performance Evaluation of DSDV Routing Protocol with CSMA/CA Strategy in Ad Hoc Network | evaluate (DSDV) and including CSMA/CA protocol along with RTS/CTS exchanges mechanism to increase | International Journal of Science and Research (IJSR) |

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| | the number of successful sending packets and decrease collisions within WLAN | |
| Intelligent Classroom a Conceptual Model for the Effective Use of Internet of Things Technique | proposes a conceptual model to improve learning methods in classrooms using IoT technologies. The model is based on three phases: interaction learning phase, collaborative learning phase and smart analytics phase | 2019 2nd Scientific Conference of Computer Sciences (SCCS) |
| Design A Secure Notepad To Implement A Website For Learning Java Language | A secure notepad is designed based on password authentication, The designed notepad used to create a website for learning java language, the website designed using (HTML, JavaScript, CSS, PHP) programming languages along with MySQL to build a database and some supported tables | Academic Journal of Science |
| An Improved Algorithm for Congestion Management in Network Based on Jitter and Time to Live Mechanisms | an improved algorithm called TCP Vegas-A is proposed consist of two parts: the first part is sending the congestion window used by the algorithm for congestion avoidance along with the TTL (Time To Live) mechanism that limits the lifetime of a packet in the network. While the second part of the algorithm is the priority-based packet sending strategy, and jitter is used as a congestion signal indication | Al-Nahrain Journal for Engineering Sciences |
| Congestion Management in MPLS Network Based on | In order to minimize network congestion | Journal of Al-Qadisiyah |

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| Hybrid Particle Swarm Algorithm | problem, a multi-constraint optimization mathematical model is established and a hybrid particle swarm algorithm based on Tabu search algorithm is proposed. The algorithm integrates Tabu search into particle swarm algorithm, which can prevent the algorithm from falling into the local optimal solution, and gives a better initial individual for Tabu search, so it can speed up the algorithm convergence and improve the quality of the solution. The simulation was done using Matlab and the results show that the optimization algorithm reduces the end-to-end delay and packet loss rate, thereby avoiding network congestion and optimizing the utilization of network resources | for Computer Science and Mathematics |
| Proposed Security Framework for Mobile Data Management System | Portable devices such as smartphones, tablet PCs, and PDAs are a useful combination of hardware and software turned toward the mobile workers. While they present the ability to review documents, communicate via electronic mail, appointments management, meetings, etc. They usually lack a variety of essential security features. To address the security concerns of sensitive data, many individuals and | Journal of Engineering |

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| | organizations, knowing the associated threats mitigate them through improving authentication of users, encryption of content, protection from malware, firewalls, intrusion prevention, etc. However, no standards have been developed yet to determine whether such mobile data management systems adequately provide the fundamental security functions demanded by organizations and whether these functions have been securely developed. Therefore, this paper proposes a security framework for mobile data that combines core security mechanisms to avoid these problems and protects sensitive information without spending time and money deploying several new applications. | |
| Quality of Service Multicast Routing in Ad-Hoc Networks Based on Genetic Particle Swarm Optimization Algorithm | With a large number of emerging multimedia in high-speed networks, multicast has become one of the key technologies for the Ad Hoc network to support multimedia services. Aiming to overcome the drawback of slow convergence and premature to solve Quality of Service multicast routing problems in the existing genetic algorithms (GA), and on the basis of the core ideas of particle swarm optimization | Al-Furat Journal of Innovations in Electronics and Computer |

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| | algorithm (PSO) and GA, this paper combines the two algorithms and proposes a genetic particle swarm optimization algorithm(GPSO) basing on the improved particle swarm optimization algorithm as the mainline, and the mutation idea of GA to avoid the algorithm from falling into local optimality. In the establishing and maintaining of ad-hoc network multicast process, the proposed algorithm is implemented to accelerates the convergence speed of the GA and enhancing the ability to avoid premature maturity. Finally, simulation experiments prove that the GPSO algorithm can accelerates the convergence speed significantly and enhances the ability to avoid premature maturity in solving the QoS multicast routing problem of Ad Hoc networks. | |

| **SKILLS AND INTERESTS** | |
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| **Skills** | **Interests** |
| Programming Languages: ( C, C++, C#, HTML, JavaScript, python)<br><br>Scientific Applications: MATLAB, OPNET, OMNET, Packet Tracer<br><br>Office Applications: Microsoft PowerPoint, Access, Excel, Word, Outlook | I am interested in watching programs that introduce all- new in the world of technology and internet to stay abreast of the latest developments in the world of technology. Love reading books specially Agatha Christie mystery books, Watching 3D and 4D movies in cinema with my family and playing video games with my friends as a competition.<br>The sport games that got my interest are tennis and swimming. I love listening to music and my favorite musician is yanni. |