

Personal Information

Name	Rizik M. H. Al-Sayyed
Place and date of birth	Jordan 21-9-1963
Faculty	King Abdullah II School for Information Technology
Department	Information Technology
National ID Number	9631022961
Date of appointment	September 06, 2009

Qualifications

Qualification	Specialization	University of donor rank	Date
PhD	Computer Science	Leeds Beckett University, UK	2007
High Diploma	Research Methodology	Leeds Beckett University, UK	2007
Master	Computer Science	Western Michigan University, USA	1995
Bachelor	Computer Science	The University of Jordan, Jordan	1984

Specialization and domain of interest

General Specialty	Computer Science
Specialization	Simulation, Computer Networks, Cloud Computing, Algorithms Optimization, and Databases
Domain of interest	<ul style="list-style-type: none"> • Optimization for algorithms • Databases (relational and big) • Data visualization • Swarm intelligence and machine learning algorithms • Data mining • Business intelligence and analytics • Cloud computing and task scheduling and optimization • Computer network performance • Computer simulation

Title and abstract of the doctoral thesis (within 150 words)**Title: The Performance Requirements for Reliability in Wireless Networks**

In a wireless environment, the voice over Internet Protocol (VoIP) capacity of the proposed model called Redundancy in Wireless Connection (RiWC) model was checked with and without background traffic. To determine the voice capacity of the model, three Quality of Service (QoS) metrics were checked: jitter, delay, data loss, in addition to the response time and throughput.

The thesis contribution to knowledge includes the RiWC model which has been developed to enable continuous on-demand adaptive mobile connection. It involves interoperability between devices on both the wired and the non-wired network. This model has the advantage of being simple, usable, adaptive, personalized and flexible.

Another major contribution of this thesis is the ability of the RiWC model to accommodate more VoIP sessions. This model proved to be flexible and able to accommodate mixed traffic, including data-centric and the voice that is highly affected by the QoS measurements.

Google Scholar Link: <https://scholar.google.com/citations?user=mczkflwAAAAJ&hl=en>

Item	All	Since 2020
Citations	1194	1023
h-index	15	13
i10-index	25	16

Scopus.com Link: <https://www.scopus.com/authid/detail.uri?authorId=9639117500>

Orcid Link: <https://orcid.org/0000-0001-7699-9074>

Number of Documents: 52,

722 Citations by 702 documents, h-index: 12

My University of Jordan Website:

<http://eacademic.ju.edu.jo/r.alsayyed/default.aspx>

My ResearchGate Website:

<https://www.researchgate.net/profile/Rizik-Al-Sayyed>

Career Experience		
Job Title	Place of Work	Date
<ul style="list-style-type: none"> Department Head (about 7 years), Assistant Dean for Students Affairs, University Website Manager, Faculty staff 	The University of Jordan, King Abdullah II School for Information Technology, Amman – Jordan	Since September 6, 2009 until now
<ul style="list-style-type: none"> Course Coordinator, Curriculum Coordinator, Testing Coordinator, IT Subject Coordinator, Men’s Campus Information Technology Coordinator, Director of International Examinations and Licenses, Full Lecturer 	United Arab Emirates University - General University Requirements Unit, Al Ain - United Arab Emirates	From August 1996 to August 2009, during two periods
Database Administrator, Systems Analyst	Ministry of Education, Doha - Qatar	Since September 1989 until August 1996
Part time lecturer	Qatar University, Doha - Qatar	Since September 1991 until January 1993
Computer Instructor	Ministry of Education, Amman – Jordan	Since November 1988 until August 1989

Administrative works and committees	
Administrative work and committee	Date
Director of the Center for Open Educational Resources and Blended Learning - The University of Jordan	<ul style="list-style-type: none"> Since September 2020 until February 2022 (2 years)
Head of the Information Technology Department - The Information Technology Department - King Abdullah II College of Information Technology - The University of Jordan	<ul style="list-style-type: none"> Since June 2017 until September 2020 (3 years) Since September 2011 until September 2012 (1 year)
University of Jordan Website Manager	<ul style="list-style-type: none"> Since September 2016 until June 2017 (1 Year)
Assistant Dean for Students Affairs	<ul style="list-style-type: none"> Since September 2010 until September 2011 (1 year)

Selected Publications during the last five years			
Research Details	Scopus?	IF	Role
Shukri, S. E., Al-Sayyed, R. , Hudaib, A., & Mirjalili, S. (2021). Enhanced multi-verse optimizer for task scheduling in cloud computing environments. <i>Expert Systems with Applications</i> , 168, 114230.	Q1	7.5	Corresponding + Student Supervisor
Alhenawi, E. A., Al-Sayyed, R. , Hudaib, A., & Mirjalili, S. (2022). Feature selection methods on gene expression microarray data for cancer classification: A systematic review. <i>Computers in biology and medicine</i> , 140, 105051.	Q1	7.0	Corresponding + Student Supervisor
Hassonah, M. A., Al-Sayyed, R. , Rodan, A., Al-Zoubi, A. M., Aljarah, I., & Faris, H. (2020). An efficient hybrid filter and evolutionary wrapper approach for sentiment analysis of various topics on Twitter. <i>Knowledge-Based Systems</i> , 192, 105353.	Q1	7.2	Student Supervisor
Al-Sayyed, R. , Alhenawi, E. A., Alazzam, H., Wrikat, A. A., & Suleiman, D. (2024). Mobile money fraud detection using data analysis and visualization techniques. <i>Multimedia Tools and Applications</i> , 83(6), 17093-17108.	Q1	3.0	First
Alhenawi, E. A., Al-Sayyed, R. , Hudaib, A., & Mirjalili, S. (2023). Improved intelligent water drop-based hybrid feature selection method for microarray data processing. <i>Computational Biology and Chemistry</i> , 103, 107809.	Q1	2.6	Corresponding + Student Supervisor
AlSayyed, A., Taqateq, A. M., Al-Sayyed, R. , Suleiman, D., Shukri, S., Alhenawi, E., & Albsheish, A. M. (2023). Employing CNN ensemble models in classifying dental caries using oral photographs. <i>International Journal of Data & Network Science</i> , 7(4).	Q1		Corresponding
Shukri, S. E., Al-Sayyed, R. , Al-Bdour, H., Alhenawi, E., Almarabeh, T., & Mohammad, H. (2023). Internet of Things: Underwater routing based on user's health status for smart diving. <i>International Journal of Data & Network Science</i> , 7(4).	Q1		Corresponding
Al-Sayyed, R. , Abu Awwad, F., Itriq, M., Suleiman, D., AlSaqqa, S., & AlSayyed, A. (2023, May). The pass/fail grading system at Jordanian universities for online learning courses from students' perspectives. In <i>Frontiers in Education</i> (Vol. 8, p. 1186535). Frontiers Media SA.	Q2	1.9	First + Corresponding
Haimour, F., Al-Sayyed, R. , Mahafza, W., & Al-Kadi, O. S. (2024). Bidirectional brain image translation using transfer learning from generic pre-trained models. <i>Computer Vision and Image Understanding</i> , 248, 104100.	Q1	4.3	Second + Student Supervisor
Hababeh, I., Khalil, I., Al-Sayyed, R. , Moshref, M., Nofal, S., & Rodan, A. (2023). Competent Time Synchronization Mac Protocols to Attain High Performance of Wireless Sensor Networks for Secure Communication. <i>Cybernetics and Information Technologies</i> , 23(1).	Q2	1.3	Corresponding
Harahsheh, H., Alshraideh, M., Al-Sharaeh, S., & Al-Sayyed, R. (2023). Improving classification performance for malware detection using genetic programming feature selection techniques. <i>Journal of Applied Security Research</i> , 18(3), 627-647.	Q1	1.1	Corresponding
Moshref, M., Al-Sayyed, R. , & Al-Sharaeh, S. (2022). Improving the quality of service in wireless sensor networks using an enhanced routing genetic protocol for four objectives. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 26(2), 1182-1196.	Q2	1.85	Corresponding + Student Supervisor
Edinat, A., Al-Sayyed, R. M. , & Hudaib, A. (2021). A Survey on Improving QoS in Service Level Agreement for Cloud Computing Environment. <i>Int. J. Interact. Mob. Technol.</i> , 15(21), 119.	Q2		Corresponding + Student Supervisor
Khalafat, M., Ja'far, S. A., Al-Sayyed, R. , Eshtay, M., & Kobbaey, T. (2021). Violence detection over online social networks: An Arabic	Q2		Corresponding +

sentiment analysis approach. <i>International Journal of Interactive Mobile Technologies</i> , 15(14), 91.			Student Supervisor
Taleb, A., Al-Sayyed, R., & Al-Bdour, H. (2021). A New Ensemble Technique Based on Merging Other Known Techniques in The Social Network Analysis. <i>International Journal of Interactive Mobile Technologies</i> , 15(12).	Q2		Corresponding + Student Supervisor
Moshref, M., Al-Sayyed, R., & Al-Sharaeh, S. (2021). An enhanced multi-objective non-dominated sorting genetic routing algorithm for improving the QoS in wireless sensor networks. <i>IEEE Access</i> , 9, 149176-149195.	Q1	3.4	Corresponding + Student Supervisor
Al-Sayyed, R. M., Hijawi, W. A., Bashiti, A. M., AlJarrah, I., Obeid, N., & Adwan, O. Y. (2019). An Investigation of Microsoft Azure and Amazon Web Services from Users' Perspectives. <i>International Journal of Emerging Technologies in Learning</i> , 14(10).	Q2		First
Al Hwaitat, A. K., Al-Sayyed, R. M., Salah, I. K., Manaseer, S., Al-Bdour, H. S., & Shukri, S. E. (2022). Frequencies wave sound particle swarm optimisation (fpso). <i>Journal of Experimental & Theoretical Artificial Intelligence</i> , 34(5), 749-780.	Q1	1.8	Corresponding + Student Supervisor
Alazzam, H., Alhenawi, E., & Al-Sayyed, R. (2019). A hybrid job scheduling algorithm based on Tabu and Harmony search algorithms. <i>The Journal of Supercomputing</i> , 75(12), 7994-8011.	Q1	2.4	Third out of 3
Suleiman, D., Odeh, A., & Al-Sayyed, R. (2022). Arabic sentiment analysis using Naïve Bayes and CNN-LSTM. <i>Informatica</i> , 46(6).	Q3	1.4	Third out of 3
Moshref, M., & Al-Sayyad, R. <i>Developing ontology approach using software tool to improve data visualization (case study: computer network)</i> . <i>I.J. Modern Education and Computer Science</i> 11 (4), 32–39 (2019).	Q1		Second out of two
Abu-Srhan, A., & Al-Sayyed, R. (2019). Visualization and analysis in bank direct marketing prediction. <i>International Journal of Advanced Computer Science and Applications</i> , 10(7).	Q3		Second out of two
Alzaqebah, A., Al-Sayyed, R., & Masadeh, R. (2019, October). Task scheduling based on modified grey wolf optimizer in cloud computing environment. In <i>2019 2nd International Conference on new Trends in Computing Sciences (ICTCS)</i> (pp. 1-6). IEEE.	IEEE Conf.		Second out of three
Suleiman, D., Obiedat, R., Al-Sayyed, R., Saleh, S., Hardt, W., & Al-Zain, Y. Employing CNN mobileNetV2 and ensemble models in classifying drones forest fire detection images, <i>International Journal of Data & Network Science, (Accepted Recently)</i>	Q1		
Al Qudah, D. A., Al-Shboul, B., Al-Sayyed, R., & Cristea, A. I. (2020). Investigating users' experience on social media ads: perceptions of young users. <i>Heliyon</i> , 6(7).	Q1	3.4	
Ghatasheh, N., Faris, H., Aljarrah, I., & Al-Sayyed, R. M. (2019). Optimizing software effort estimation models using firefly algorithm. <i>International Journal of Software Engineering and its Applications (arXiv preprint arXiv:1903.02079)</i> .	Scopus		
Qaisi, L. M., Rodan, A., Qaddoum, K., & Al-Sayyed, R. (2018, November). Customer churn prediction using data mining approach. In <i>2018 Fifth HCT Information Technology Trends (ITT)</i> (pp. 348-352). IEEE.	IEEE Conf.		
Taha, N., Al-Sayyed, R., Alqatawna, J. F., & Rodan, A. (2021). Social Media Shaping e-Publishing and Academia. <i>Prospects</i> .	Springer		Second
Al-Sayyed, R. M., Namous, F. F., Alkhalafat, A. H., Al-Shboul, B., & Al-Saqqa, S. (2017). New Synchronization Algorithm Based on Delta Synchronization for Compressed Files in the Mobile Cloud			First

Environment. <i>International Journal of Communications, Network and System Sciences</i> , 10(04), 59.		
Shaheen, A., Al-Sayyed, R., & Sleit, A. (2017). Improving visual analyses and communications of ontology by dynamic tree (case study: computer system). <i>International Journal of Advanced and Applied Sciences</i> , 4(5), 62-66.	Q3	Second out of three
Salem, A., & Al-Sayyed, R. (2022, November). Security Framework for Hosting Systems on the Cloud: Case Study of Jordan E-Government Websites. In 2022 <i>International Conference on Emerging Trends in Computing and Engineering Applications (ETCEA)</i> (pp. 1-6). IEEE.	IEEE Conf.	

Scientific conferences and symposia

Conference Title	Place and date of conference	Type of Participation
1 st International Conference on Online and Blended Learning	The University of Jordan, 23-24 August, 2021	Chairman
The 2 nd International Conference on New Trends in Computer Science (ICTCS'19)	Amman – Jordan October 9-11, 2019	Attendee
The 5 th International Conference on E-Publishing, ICEPUB2019	Amman - Jordan 24 th - 26 th September, 2019	Scientific and organizing Committee
The 4 th International Conference on E-Publishing, ICEPUB2018	Amman - Jordan 10 th - 12 th September, 2018	Scientific and organizing Committee
The 3 rd International Conference on E-Publishing	Amman - Jordan July 25 – 27, 2017	Scientific and organizing Committee

Committees...

The University of Jordan, King Abdullah II School for Information Technology, (2009 – Present) ...

- Member of University Council
- Member / Chairperson of the Curriculum Committee
- Member / Chairperson of the Graduate Studies Committee
- Member of College Council
- Member of Student Affairs Committee
- Member of the Scientific Research, Conferences, Seminars, and Expositions Committee.
- Member of the e-Learning Committee.
- Many other committees on the university and school levels

Technologies...

- Packages: Matlab, SPSS
- Oracle SQL*Plus, PL/SQL, Forms, Reports, MySQL, SQL Server, and MongoDB
- Programming languages: Python, Visual Basic.Net, C++, Visual C++, Java, Cobol, Pascal, and Assembly
- Multimedia Tools: Camtasia, Captivate, Photoshop
- Active Server Pages.Net

Teaching activities

Taught Courses	Level: Bachelor/Master/PhD
Data Engineering and Analytics	Bachelor
Data Mining	Bachelor
NoSQL Databases	Bachelor
Business Intelligence	Master in Web Intelligence
Foundations of Business Analytics	Master in Business Analytics (PSUT)
Data Warehousing and Mining	Master in Web Intelligence
Information Visualization	Master in Web Intelligence + PhD
Special Topics for PhD (Cloud)	PhD

MongoDB (Special Topics)	Master in Web Intelligence
Machine Learning (Special Topics)	Master in Web Intelligence
Cloud Computing	Master in Web Intelligence
Research Methodology	Master in Web Intelligence
eGovernemnt Infrastructure	Master in eGovernment
Database Management Systems	Bachelor
Database Languages and Tools (Oracle)	Bachelor
Computer Simulation in Business	Bachelor
Web applications Development – 2	Bachelor
Social Media Networks	Bachelor
Discrete Math	Bachelor
PHP Programming	Bachelor
Logic Design	Bachelor
Computer Skills (C++)	Bachelor
Fundamentals of Computer Science	Bachelor
Computer Basics	Bachelor
Computer Skills for Medical Students	Bachelor

Graduate Students Supervision (PhD Level)

Student's Name	Thesis Title	Role
ساره عماد خالد شكري	An Enhanced Nature-Inspired Algorithm for Task Scheduling in Cloud Computing Environment	Main
اسراء محمود سليم الحناوي	An improved intelligent water drop-based hybrid gene selection method for microarray gene expression data processing	Main
عفاف خليل عطا الله العدينات	Proving QoS in Service Level Agreement of Cloud Computing using Enhanced Deep Reinforcement Learning	Main
محمود ابراهيم عبد الرحمن مشرف	An Enhanced Multi Objective Non-dominated Sorting Genetic Routing Algorithm for Improving the QoS in Wireless Sensor Networks	Main
براءة عليان الحماد	Enhanced Stochastic Paint Optimizer Tailored for Finetuning of Deep Learning Hyperparameters in Biomedical Datasets	Co-supervisor
فاطمه عمر علي حيمور	Unsupervised Medical Image Translation for Lesion Semantic Segmentation	Co-supervisor
أحمد الحويطات	A Digital Forensic Investigation Method under Advanced Persistent Threat in Industrial Espionage Fog Computing Environment	Main + Co-S.
ضحى محمد بسام عارف قطيشات	Applying the Zero-Shot Learning to Generate and Classify Malicious Unseen Attacks	Co-supervisor

Graduate Students Supervision (Master Level)

Student's Name	Thesis Title	Role
ليلي محمد محمود القيسي	A metaheuristic approach for offloading in Mobile cloud computing	Main
محمد أحمد علي حسونة	Sentiment Analysis using Hybrid Machine Learning Method	Main
رغد هاشم حسني الغزاوي	Salp Swarm Algorithm for User's Behavior in Cloud Environment	Main
اية منظر حسن طالب	JKRW link prediction: a new ensemble technique based on merging other known techniques in the social network analysis.	Main
المنذر حسن مصطفى الخلفات	Violence Detection Over Online Social Networks: An Arabic Sentiment Analysis approach	Main

بتول محمد محمود السيد	Using Arabic Chatbot to Diagnose Covid-19 Related Respiratory Diseases	Main
فراس فؤاد ناموس	Continuous Smartphone Authentication Based on User Behavior	Co-supervisor
علي عبدالعزيز جروح السرحان	Multi-Tier Cloud-Based Intrusion Detection System Using Deep-Learning Classifier	Main
آلاء نايف الزين	Load balancing in cloud environment based on Modified Grey Wolf Optimizer	Main
أنور / محمدنظام / أنور البشيتي	Hybrid Dynamic Load Balancing Algorithm for Cloud Environment	Main
غدير احمد رشيد قصص	Negatively Correlated Simple Deterministic Reservoir Networks for Time Series Prediction	Main
محمد زكريا علي معاينه	e-Government Growth Level Classification	Main
ازهار فيصل مرزي الطراد	The impact of e-Government in Jordan on the Economic Growth During Covid-19 Pandemic	Main
دانة مصطفى احمد محمد	Employee-based-e Government Readiness and Enhancement Benchmarking Macro- Index (eGRE)	Co-supervisor
آلاء سليمان أحمد الخزاعلة	Sharing files safely in cloud environment using SHA-512 encryption	Main
لين الروسان	Assessing the readiness of digital forensics as a service in Jordanian e-government projects to propose an international standard framework	Main
رهمف العدوان	The Impact of Governance Implementation on Enhancing Transparency and Improving Social Security Services: A Case Study of the Jordanian Social Security Corporation	Co-supervisor
مصطفى الزبون	Success factors in implementing e-government: A case study of the Jordanian licensing department	Co-supervisor
ساجدة سلطان حمودة	Threats of Cybercrime in Jordan: Challenges and Technical Responses	Main
حلا سالم السواعير	Robotic process automation as a digital transformation tool in the Jordanian public sector	Main
لانا فايز الطويل	The Impacts of Adopting Digital Transformation in the Public Sector on Economic and Environmental Gains - A Case Study of The Jordanian Ministry of Digital Economy and Entrepreneurship	Main

Professional Development (PD)

1. Training courses I attended

S.	Course Name	HRS	Date(s)	Place
1	ABET Continuous Improvements	12	Many times	JU
2	ABET Course File Preparation	12	Many times	JU
3	Using LMS Platform	6	11/11/2020 – Online	JU
4	Using the JU Exams and ExamBuilder	6	24/11/2021 - Online	JU
5	Preparing Content for Blended Learning Courses	6	30/6 – 1/7/2021 - Online	JU
6	Using Advanced Features of MS Teams & Moodle	6	17/11/2021 – Online	JU
7	Hybrid Learning	6	20/7/2021 – Online	JU

2. Training courses I attended

S.	Course Name	Duration	Date(s)	Country
1	Postgraduate Certificate Research Methodology (PGCRM)	1 Yr	July 2, 2007	Leeds, UK
2	ICDL Expert Certificate	5 Days	Dec. 15, 2008	Dubai
3	IC ³ Authorized Instructor (CertiPort)	5 Days	January 6, 2006	USA
4	CTP Training Professional	5 Days	Dec. 6, 2005	Dubai, UK

5	All Advanced ICDL Exams	Exams	June 12-14, 2007	UK
6	Miscrosoft Office Specialist MASTER INSTRUCTOR: Ppt, WRD, ACC, EXC, OUTL	Exams	January 6, 2006	UK
7	Miscrosoft Office Specialist in MS Outlook 2002	Exam	May 24, 2005	UK
8	Miscrosoft Office Specialist MASTER: PPT, WRD, ACC, EXC	Exams	May 18, 2005	UK
9	Miscrosoft Office Specialist in MS Excel 2002 EXPERT	Exam	May 18, 2005	UK
10	Miscrosoft Office Specialist in MS Access 2002	Exam	May 16, 2005	UK
11	Miscrosoft Office Specialist in MS Word 2002 EXPERT	Exam	May 15, 2005	UK
12	Miscrosoft Office Specialist in MS PowerPoint 2002	Exam	May 10, 2005	UK
13	Miscrosoft Office Specialist in MS Excel 2002	Exam	May 8, 2005	UK
14	Miscrosoft Office Specialist in MS Word 2002	Exam	May 7, 2005	UK
15	Instructor Certification Program (ICP) – Certified Instructor	90 Hrs	May 29, 2003	ExecuTrain, Dubai
16	Administering MS Windows NT 4.0	75 hrs	March 21, 1999	UAE
17	Supporting MS Windows NT 4.0 Core Technologies	75 hrs	April 28, 1999	UAE
18	OSF/I Commands Utilities	40 Hrs	7/1/95 - 11/1/95	Qatar
19	OSF/I Technichal Overview	8 Hrs	12/1/95	Qatar
20	OSF/I System Administration	40 Hrs	30/1/95 - 4/2/95	Qatar
21	Introductiom To PC Networking and Integration	8 Hrs	14/2/95	Qatar
22	Pathworks V5. Basic User	8 Hrs	15/3/95	Qatar
23	Pathworks V5. Administration	16 hrs	16/3/95 - 17/3/95	Qatar
24	Oracle SQL*Plus	32 Hrs	25/3/95 - 28/3/95	Qatar
25	Oracle – Using Procedural Options	16 Hrs	29/3/95 - 30/3/95	Qatar
26	Oracle SQL*Forms 3.0	40 Hrs	1/4/95 - 5/4/95	Qatar
27	Programming in C Language	40 Hrs	22/4/95 - 26/4/95	Qatar
28	Pathworks V5. Installing and Configuring OSF/I Server	24 Hrs	15/5/95 - 18/5/95	Qatar
29	Pathworks V5. Installing and Configuring Mutivendor Client	24 Hrs	20/5/95 - 22/5/95	Qatar
30	Oracle Report Writer	24 Hrs	30/5/95 - 1/6/95	Qatar
31	Oracle DBA – I	32 Hrs	3/6/95 - 6/6/95	Qatar
32	Oracle DBA – II	32 Hrs	28/10/95 - 31/10/95	Qatar
33	Oracle Forms 4.5	32 Hrs	1/11/95 - 5/11/95	Qatar
34	Oracle Reports 2.5	32 Hrs	6/11/95 - 9/11/95	Qatar
35	Digital Unix Network Management	32 Hrs	11/11/95 - 14/11/95	Qatar
36	Digital Unix Security	24 Hrs	18/11/95 - 20/11/95	Qatar
37	HP-UX Fundamentals and Operations	10 Days	5/12/92	Qatar
38	IT and Education, St Mark and St John College	5 Months	15/3/88 – 5/8/88	Plymouth, UK
39	Computer Awareness	6 Months	2/1988 - 8/1988	UK