

Curriculum Vitae

Personal Information:

Name : Firas A. E. Albalas
Date and Place of birth : IRBID – Jordan
Marital status : married.
Nationality : Jordanian.
Address : P.O Box. 3796
Code 21110- IRBID -Jordan
Telephone :
E-mail : faalbalas@just.edu.jo

Education -:

2005 - 2009:

University : Glamorgan University, UK
Faculty : Computer Science
Degree : PhD (Computer Science/ Wireless Networks)
Research title : *“Design and Investigation of scalable multicast recursive protocols for wired and wireless ad hoc protocols”*

1997 - 2000:

University : Jordan University, Jordan
Faculty : information technology
Degree : Master (Computer Science/ Machine Learning)
Grade : V.good
Research title : *“Developing New feature Selection Methods for discrete and continuous class prediction*

1987 - 1991:

University : Mu'tah University, Jordan
Faculty : Science /department of IT
Degree : BSc (Computer Science)
Grade : V.good

Practical experience -:

- I worked as an Oracle application developer by creating different Oracle based applications from scratch and sometimes upgrading Oracle application from old versions (version 6) to (version 8i and 10g). Then I was appointed as an Oracle Database administrator with responsibility of creating new Database for new application including database users, table spaces, and part of my responsibility to do tuning and backup for working Databases.

Academic experience -:

- In this period of experience, I started teaching experience after having my PhD degree; at the sometime, I continued working in programming languages, system analyst, Project management and database courses, in addition to computer networks courses.

Position : **Associate Professor, Computer Science Dept.**
Employer : Jordan University for Science and Technology, Jordan
Period : Feb 2018 To Now

Position : **Associate Professor, Deputy Director of Academic Development and Quality Assurance Center**
Employer : Jordan University for Science and Technology, Jordan
Period : Sep 2021 To Sep 2022

Position : **Associate Professor, chairman Computer Science Dept.**
Employer : Jordan University for Science and Technology, Jordan
Period : Sept 2020 To Sep 2021

Position : **Assistant Professor, Computer Science Dept.**
Employer : Jordan University for Science and Technology, Jordan
Period : Sept 2014 To Feb 2018

Position : **Assistant Professor, Computer Science Dept.**
Employer : Yarmouk University, Jordan
Period : Sept 2013 To Sept 2014

Position : **Assistant Professor, chairman Computer Networks Dept.**
Employer : Jadara University, Jordan
Period : Sept 2010 To Sept 2013

Position : **Assistant Professor/part time Lecture**
Employer : Jordan University for Science and Technology, Jordan
Period : Sept 2010 to Jan 2013

Position : **Assistant Professor/ Computer Science Dept.**
Employer : Applied Science University, Jordan
Period : Sept 2009 to Sept 2010

Position : **Part Time Lecturer**
Employer : Jordan University, Jordan
Period : Jul 2000 to Dec 2004

Master students' supervision

I was a main supervisor or co-supervisor for around 14 master student in the subjects of computer networks, IoT and deep learning.

No.	Thesis Title	Discussion Date
1	Early Detection of Autistic Children by Learning Facial Image Morphological Features.	Sep, 2022

2	Masked Face Detection using Multi-Graph Convolutional Networks	Aug, 2021
3	Adopting DevOps by small software development companies: a systematic study on its open-source tools	Feb, 2021
4	Reducing Power Consumption in Hexagonal Wireless Sensor Networks using Efficient Routing Protocols	May, 2020
5	Developing a dynamic data encryption approach based on addressing the data importance in the Internet of Things.	Jan, 2020
6	History-based Consistency Algorithm for the Trickle Timer with Low- Power and Lossy Networks	Aug, 2019
7	An Optimized Approach to Improve AODV by Using Genetic Algorithm in Smart 8Grid applications.	Jul, 2018
8	Genetic Algorithm Energy-Aware Routing Scheme in Internet of Things	Apr, 2018
9	Detecting Denial-of-Service(DoS) Attacks in MANET networks using Classification Algorithms	Aug, 2017
10	On Lowering Power Consumption and Transmission Delay for Routing Protocol for Low-Power and Lossy Networks	Aug, 2017
11	Insider Collusion Threat in Relational Databases: Prediction and Mitigation	Apr, 2017
12	Battery-aware Tuning approach for the Constrained Application Protocol of Internet of Things	Dec, 2016

13	Improving in Home Energy Management (iHEM) scheme for Smart Grids	Aug, 2015
14	Toward a cost-effective scheduling scheme in smart grids	Dec, 2014

Publications

Journals:

F. Albalas, Ahmad Alzu'bi, Alanoud Alguzo, Tawfik Al-Hadhrami, and Achraf Othman (2022), "Learning Discriminant Spatial Features With Deep Graph-Based Convolutions for Occluded Face Detection", **IEEE Access journal (Scopus Q1)**, vol. 10, pp. 35162 – 35171.

F. Albalas, Haneen Taamneh , Wail E. Mardini (2021), "History-based consistency algorithm for the trickle-timer with low-power and lossy networks", **International Journal of Electrical and Computer Engineering (Scopus Q2)**, vol. 11, no. 3, pp. 2569 – 2576.

Ahmad Alzu'bi, **F. Albalas**, Tawfik Al-Hadhrami, Lojin Bani Younis, Amjad Bashayreh, (2021), "Masked Face Recognition Using Deep Learning: A Review", **Electronics Journal (Scopus Q2)**, vol. 10, no. 21, pp. 2666 – 2701.

Razan Khalid Alhatimi, Omar Saad Almousa and **F. Albalas**, (2021), "Reducing Power Consumption in Hexagonal Wireless Sensor Networks Using Efficient Routing Protocols", **Journal of ICT Research and Application (Scopus Q2)**, vol. 10, no. 2, pp. 169 – 187.

Ammar Almomani, Mohammad Alauthman, Mohammed Alweshah, O. Dorgham, **F. Albalas** (2019). "A comparative study on spiking neural network encoding schema: implemented with cloud computing", **Cluster Computing Journal (Scopus Q2)**, vol. 22, no. 4, pp. 419 – 433.

Dana Khwailleh, **F. Albalas** (2021). "A dynamic data encryption method based on addressing the data importance on the internet of things", **International Journal of Electrical and Computer Engineering (Scopus Q2)**, vol. 12, no. 2, pp. 2139 – 2146.

Ammar Almomani, Mohammad Alauthman, **F. Albalas**, Atef Ahmed Obeidat (2018). "An Online Intrusion Detection System to Cloud Computing Based on Neucube Algorithms", **International Journal of Cloud Applications and Computing (Scopus Q3)**, vol. 8, no. 2, pp. 96 – 112.

F. Albalas, Majd Al-Soud, Omar Almomani, and Ammar Almomani, (2018), "Security-aware CoAP Application Layer Protocol for the Internet of Things using Elliptic-Curve Cryptography",

The International Arab Journal of Information Technology (Scopus Q2), vol. 15, no. 3A, pp. 550 – 558.

F. Albalas, Wail Mardini and Dua'a Bani-salameh (2017), "Optimized Job Scheduling Approach based on Genetic Algorithms in Smart Grid Environment", **International Journal of Communication Networks and Information Security (Scopus Q3)**, vol. 9, no. 2, pp. 172 -176.

F. Albalas, W. Mardini and Majd Alsoud (2017), "A Comprehensive Study on Machine To Machine resource and Service Discovery in Internet of Things", **Far East Journal of Electronics and Communications**, vol. 6, no. 2, pp. 106-30, 2017

F. Albalas, Wail Mardini, Yaser Khamayseh, Dua'a Ah.K.Bani-Salameh (2016), "Improved Appliance Coordination Scheme with Waiting Time in Smart Grids," **International Journal of Advanced Computer Science and Applications (Scopus Q3)**, vol. 7, no. 4, pp. 16-30, 2016

Q. Yaseen, **F. Albalas**, Y. Jararweh and M. AlAyyoub (2017). "Leveraging Fog Computing and Software Defined Systems for Selective Forwarding Attacks Detection in Mobile Wireless Sensor Networks", **Journal of Transactions on Emerging Telecommunications Technologies (Scopus Q2)**, Wiley, 2017.

M. Baniyasen, **F. Albalas** and A Odeh (2017), "Energy-Aware objective function for RPL Routing in Internet of Things", **International Journal on Communications Antenna and Propagation (Scopus Q2)**, vol 7, no. 2, pp 188 – 197.

Wail Mardini **F. Albalas**, Qusai Obeidat and Muneer Masadeh Bani Yassein (2016), "Improved home energy management techniques for smart grids ," **International Journal of Smart Home (Scopus Q3)**, vol. 11, no. 5, pp. 1-20.

B. Zaqaibeh, **F. Albalas**, et al. (2012), "Designing a New Assertion Constraints Model for Mobile Databases", **International Journal of Interactive Mobile Technologies (IJIM) (Scopus Q3)**, vol. 6, no.2, pp. 39-46.

Jafar Ababneh, **F. Albalas**, et al. (2012), "Performance Evaluation for Scalable Recursive Multicast Protocol using ns2 simulator", **International Journal of Computer Science and Information Security (IJCSIS) (Scopus Q2)**. Vol. 10, no. 5, pp: 84-87.

F. Albalas, B. AbuAlhaija, et al. (2010). "Quality of Service for Multimedia and Real-Time Services." **International Journal of Information Technology and Web Engineering (IJITWE) (Scopus Q3)**, vol. 5, no. 4, pp. 1-22.

Conferences

Alanood Algazo, Ahmad Alzu'bi, **F. Albalas** (2021). "Masked Face Detection using Multi-Graph Convolutional Networks", 12th International Conference on Information and Communication Systems, Valencia – Spain, 2021

F. Albalas, Majd Alsoud, Wail Mardini (2019). "A scalable and battery: aware tuning approach for constrained devices in internet of things", the Second International Conference on Data Science, E-Learning and Information Systems, Dubai, UAE, 2019.

F. Albalas, Munner Bani Yaseen, Asma'a Nassar (2019). "Detecting black hole attacks in MANET using ReliefF classification algorithm, the 5th International Conference on Engineering and MIS, Amman, Jordan, 2019.

Omar Almomani, Adeeb Saaidah, **F. Albalas**, Laila Al-Qaisi (2019). "Simulation Based Performance Evaluation of Several Active Queue Management Algorithms for Computer Network", 10th International Conference on Information and Communication Systems, Amman, Jordan, 2019.

F. Albalas, Omar Almomani, Reema M. Abu Jazoh, Yaser Khamayseh, Adeeb Saaidah (2019). "An Enhanced End to End Route Discovery in AODV using Multi-Objectives Genetic Algorithm", IEEE International Joint Conference on Electrical Engineering and Information Technology (JEEIT), Amman, Jordan, 2019.

F. Albalas, Wail Mardini, Majd Al-Soud and Qussai Yaseen (2019). "A topology-based performance Evaluation for an adaptive tuning protocol for service and resource discovery in the Internet of Things", IEEE 9th Annual Computing and Communication Workshop and Conference (CCWC), Las Vegas, NV, USA, 2019.

Qussai Yaseen, Aman Alabdulrazzaq, **F. Albalas** (2019). "A Framework for Insider Collusion Threat Prediction and Mitigation in Relational Databases", IEEE 9th Annual Computing and Communication Workshop and Conference (CCWC), Las Vegas, NV, USA, 2019.

F. Albalas, Wail Mardini and Dua'a Bani-salameh (2017), "AFT: Adaptive Fibonacci-based Tuning Protocol for Service and Resource discovery in the Internet of Things", The second International Conference on Fog and Mobile Edge Computing (FMEC), Valencia, Spain, 2017.

M. Alayyoub, Q. Yaseen, M. Shehab, Y. Jararweh and **F. Albalas** (2016). "Exploiting GPUs to Accelerate Clustering Algorithms." In proceedings of the 13th ACS/IEEE International Conference on Computer Systems and Applications AICCSA, Agadir, Morocco, November 2016.

M. Alayyoub, Q. Yaseen, M. Shehab, Y. Jararweh and **F. Albalas** (2016). "Accelerating Clustering Algorithms Using GPUs." The 14th IEEE High Performance Extreme Computing Conference(HPEC-2016), Boston, USA, 2016.

M. Alayyoub, Q. Yaseen, M. Shehab, **F. Albalas** and Y. Jararweh(2016). "Accelerating FCM-Based Text Classification Algorithm Using GPUs." The 14th IEEE High Performance Extreme Computing Conference (HPEC-2016), Boston, USA, 2016.

Q. Yaseen, **F. Albalas**, Y. Jararweh, M. Alayyoub (2016). "A Fog Computing Based System for Selective Forwarding Detection in Mobile Wireless Sensor Networks." In Proceedings of FAS* Foundations and Applications of Self* Systems Conference, Augsburg, Germany, September 2016.

Teaching Experience (courses)

Computer Networks
Computer Wireless Networks
Advanced Computer Networks (Master course)
Operating Systems.
Database course.
System Analysis and Design
Project Management.
Object – Oriented Programming (C++, Java)
Visual basic programming
BUSINESS DATA COMMUNICATION AND COMPUTER NETWORKS

Professional qualification

- PL/SQL Oracle certified
- Cisco CCNA Instructor certificate.

Skills:

- Organized and excellent in communications with client
- Hard working and ability to work under pressure.
- Flexibility and creativity.

Languages:

- Arabic (Mother Tongue) Excellent.
- English (Second Language) Excellent.

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

جامعة مؤتة

وحدة القبول والتسجيل

الأردن - الكرك

MUTAH UNIVERSITY

Admission & Registration

JORDAN/AL-KARAK

Date:12/5/2003



In accordance with the Deans' Council decision
No.109/91 dated 26/5/1991, the degree of

BACHELOR OF SCIENCE
in **COMPUTER SCIENCE**

is hereby conferred upon Firas Ali Elyan Al-Balasi

born in **Irbid** in **1970** of **JORDANIAN**

nationality, who achieved a cumulative average of **81.98 %**

and an overall assessment of **U. Good**

This degree is granted by Mut'ah University,
Jordan in the 2nd semester of 90/91



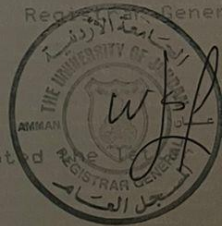


CERTIFICATE

In accordance with the University of Jordan Law
& the results of examinations held at the faculty of
GRADUATE STUDIES
the Deans' Council decided on 19-06-2000 to award
Mr FIRAS ALI ELYAN AL-BALAS
born in IRBID in 1970 the
M.SC. DEGREE IN COMPUTER SCIENCE
with an average of (3.06 out of 4) Rating : (Very good)

Amman On 11-07-2000

- N.B.: Any deletion or alteration affected to this document will render it invalid.
- As of the second semester 1995/1996, the university adopted grade system.



Amman



استاذة فتيحة كلالمة
مديرة القبول والتسجيل
الجامعة الأردنية
عمان



University of Glamorgan
Prifysgol Morgannwg



FIRAS ALBALAS

has been awarded the degree of

DOCTOR OF PHILOSOPHY

in recognition of a programme of work entitled

Design and Investigation of Scalable Multicast Recursive Protocols for Wired and Wireless Ad hoc Networks

Dated 29 January 2009

Dyddiedig 29 Ionawr 2009

ardysfir i'r uchod dderbyn gradd

DOETHUR MEWN ATHRONIAETH

am raglen gwaith yn dwyn y teitl

Academic Registrar
Cofrestrdydd Academaidd

W. Palfrey

04351652

Is-Ganghellor

Vice-Chancellor
Is-Ganghellor