

Curriculum Vitae

PERSONAL DETAILS:

Name: *Feras Mohammed Al-Matarneh*

Date of birth: 01/01/1971

Place of birth: AY/Karak/Jordan

Nationality: Jordanian.

Marital status: Married.

Present Address: Kingdom of Saudi Arabia ,

University of Tabuk , College of Computer science / Duba Branch

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QUALIFICATIONS:

1. 2008-Ph. D in Networks & Processing of Data Systems- Saint Petersburg.

Title of Ph. D. Thesis: Methods and Models for Calculating Probability-Time Data Characteristics of Switching Networks in The System Ecological Monitoring

2. 1996-M. SC in Electrical Engineering/ Electronics Computer - Saint Petersburg.

Title of M. Sc. Thesis: Development of a Bio Telemetric System with Frequency Division of Measuring Channels

3. 1995- B. SC in Electrical Engineering / Electronics Computer – Saint Petersburg.

4. 1989-High School: General Secondary School Certificate-Jordan.

CAREER HISTORY:

2023- until now Associate Prof. Department of Computer Science at University of Tabuk / college Duba.

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2013-2023: Assistant Prof. Department of Computer Science at University of Tabuk/ college Duba.

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2011-2013: Assistant Prof. at Mining Engineering Department and Computer Engineering Department at University of Umm Al-Qura.

2009-2011:
Assistant Prof. at Mining Engineering Department and Computer Engineering Department at University of Al-Hussein Bin Talal.

2002- 2009:Maintenance Engineer at the Department of Biomedical Engineering / Ministry of Health.

1996 – 2002:
Executive Engineer at Al-shareq Company

RESEARCH INTERESTS:

1. Information analysis and processing.
2. Networking design.
3. The Telecommunication system.
4. System analysis.
5. Computer Network

MEMBERSHIP:

1. Member of the Jordanian Engineering Association; (1996-Present).

PUBLICATIONS:

1. **Feras. M. Matarneh**, FEM-driven machine learning approach for characterizing stress magnitude, peak temperature and weld zone deformation in ultrasonic welding of metallic multilayers: application to battery cells. *Modelling and Simulation in Materials Science and Engineering*. doi.org/10.1088/1361-651X/ad8669. *Modelling Simul. Mater. Sci. Eng.* **32** (2024) 085009 (20pp)
2. **Feras Matarneh**, Automated Handwriting Recognition and Speech Synthesizer for Indigenous Language Processing. *Tech Science Press Computers, Materials & Continua* DOI: 10.32604/cmc.2022.026531. *CMC*, 2022, vol.72, no.2
3. **Feras Matarneh**, Swarm Intelligence with Adaptive Neuro-Fuzzy Inference System-Based Routing Protocol for Clustered Wireless Sensor Networks. *Hindawi Computational Intelligence and Neuroscience* <https://doi.org/10.1155/2022/8957940>. Volume 2022, Article ID 7940895, 11 pages
4. **Feras Matarneh**, Investigating The Network Characteristics Of Two Popular Web-Based Video Streaming Sites *European Scientific Journal ESJ* vol. 13 No.25 No.26 No.27, sep.2017
5. **Feras Matarneh**, "Improving the Authentication Mechanism of Business to Consumer (B2C) Platform in a Cloud Computing Environment: Preliminary Findings" *European Scientific Journal*, *ESJ* vol. 13 No.16 No.17 No.18, June 2017
6. **Feras Matarneh**, Rami Matarneh Enhancing Fault-Tolerance in Ring Topology Based on Waiting Queue and Timestamp. *International Journal of Computer Trend and Technology*, volume 43 number 2-January 2017
7. **Feras Matarneh**, moharep smadi the effect of teaching post-graduate student curriculum teaching courses on their acquisition of electronic design /Tabuk University, 2015.
8. **Feras Matarneh**, Rami Matarneh Virtual channel switching model to simulate switching network. *European Journal of Scientific Research* ISSN 1450-216x / 1450-202x January, 2015
9. Adnan I. Al Rabea, **Feras Almatarneh**, Basim Alhadidi, The methods of synthesis of multilevel circuits of compositional micro program control units. The 2010 International Conference on Mechanical and Aerospace Engineering (ICMAE 2010) -1 - Notification of Acceptance of the ICMAE 2010 November 26-28, 2010, Kuala Lumpur, Malaysia.
10. **Feras Matarneh**, Traffic Control in The Centre of Conjunction of Heterogeneous Networks. *International Journal of Computer Science and Network Security*. 10 2010, 337-342.
11. Kutuzov, O.I. Choosing structure nodes network, ecology monitoring system / OI Kutuzov, AA Kuznetsova, **F. Matarneh** // International conference "Instrumentation in ecology and human safety" (The choice of network structure in the system of ecological monitoring). St. Peter b., 31.jan. -- 02.feb. 2007. -- SPb. 2007. - P. 91-93

12. **Feras Matarneh**, The concept of distributed simulation based on the model of parallel computing SPMD/ analysis and forecasting systems management: Trudy 8 - and mezhdunar. Scientific practical. Conf. young scientists, students and graduate students. - St. Petersburg.: Izd of SZTU - 2007. -- S.174-177
13. Kutuzov, OI The concept of network system for environmental monitoring / OI Kutuzov, S. Amari, **Feras Matarneh** // Izvestia SPb GETU "LETI". Ser. "Computer science, management and computer technology". -- 2006. - № 2. -- S. 31-34
14. Kutuzov, OI Statistical estimation network connectivity / OI Kutuzov, **Feras Matarneh** // Automation, informatization, innovation in transport systems: Sat. scientific-technical. Articles. -- St. Petersburg.: SPGUVK. 2006 .- Vyp.1 .- S. 27-32.
15. **Feras Matarneh**, approach to the calculation of productivity LAN / A. Matarneh, S. Amari / / Technical means of navigation and communication at sea and inland waterways: Internet mezhvuz. Sat. science. Works / Ed. AA Sikareva - St. Petersburg, SPGUVK - Shipbuilding, 2006. Vol. 7 - s.103 -108
16. Kutuzov, OI Model connections to the network / OI Kutuzov, DI Starchak, **Feras Matarneh** // Problems of training in the field of in focomm technology: Proceedings of scientific practical. Conf.; Saint Peters., 1-3 March 2005: - Saint Petersburg.: SPOISU, 2005 - S. 91-94.

SCIENTIFIC TRAINING AND SKILLS:
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1. ISO Training Course in Royal Scientific Society, ISO 2000, 7 Oct. 2003.
2. Training Course in ICDL (International Computer Driving License) in RSS(Royal Scientific Society)/Jordan. June, 2006.
3. Attending and passing a training program (Project Management Using MS Project 2007), which was held from 10/8/2008 to 14/8/2008 at the Royal Scientific Society in Jordan.
4. English courses in the American Center and British Council.
5. Training Course in Dental Unit (ANTHOS) for Installation and Maintenance Class A and X-ray Anthos Ac. (Italy – Imola October 2004).
6. Training Course in Dental Unit (EURODEN/for Installation and Maintenance (Italy- Bologna- October 2003).
7. Attending and passing the program (Quality Standards in the Teaching Process), which was held from 24/3/2013 to 26/3/2013 within the project of developing the capabilities of faculty members and leaders at the University of Tabuk.
8. Attending and passing the program (examination systems and student evaluation), which was held from 20/5/2014 to 22/5/2014 as part of a project to develop the capacities of faculty members and leaders at the University of Tabuk.
9. Attending and passing the program (credit hour systems), which was held from 12/10/2014 to 15/10/2014 within the project of developing the capacities of faculty members and leaders at the University of Tabuk.

10. Attending and passing the program (thinking and creativity), which was held from 3/8/2015 to 7/8/2015 within the project of developing the capacities of faculty members and leaders at the University of Tabuk.
11. Attending and passing the (Influence Skills) program, which was held from 11/11/2015 to 14/11/2015 as part of a project to develop influence skills among faculty members at the University of Tabuk.
12. . Attending and passing a training program (using the Moodle system), which was held from 9/1/2016 to 10/1/2016 as part of the faculty development project at the University of Tabuk.
13. Attending and passing the program (International Publication of Scientific Research), which was held from 22/2/2016 to 24/2/2016 as part of a project to develop the capacities of faculty members and leaders at the University of Tabuk.
14. Attending and passing the program (learning outcomes, content analysis, grading collection method and statistical analysis), which was held from 14/12/2016 to 15/12/2016 as part of the faculty development project at the University of Tabuk.
15. Attending and passing the (Ethics and Ethics of the Teaching Profession) program, which was held from 23/10/2017 to 25/10/2017 within the project of developing the capabilities of faculty members and leaders at the University of Tabuk.
16. Attending and passing the (Communication Skills in Different Modes of Education) program, which was held from 16/4/2018 to 18/4/2018 as part of the project to develop communication skills among faculty members and leaders at the University of Tabuk.
17. Attending and passing the program (assessing learning outcomes), which was held from 20/4/2019 to 25/4/2019 as part of the faculty development project and the University of Tabuk.
18. Attending and passing the program (formulating learning outcomes and measuring their impact), which was held from 4/5/2019 to 6/5/2019 as part of the project to develop influence skills among faculty members at the University of Tabuk.

CONFERENCE ATENDED:

1. 2006-Regional Training Workshop in International Jordanian Electrical & Electronic Engineering Conference (JIEEEEC) Amman, Jordan
2. Participation in the 20th Jordanian Dental Congress Amman, Jordan. Participation in the 2nd Jordanian Mining Conference, Amman.2006
3. Participation in the "National Conference for the Development of Study Plans and Methods of Teaching, Learning and Scientific Research in Jordanian Universities", the Jordanian Ministry of Higher Education in cooperation with the Middle East Research Center at Columbia University, The Royal Hotel, Amman (2010).
4. Regional Training Workshop in International Jordanian Electrical & Electronic Engineering Conference (JIEEEEC) Amman, Jordan 12-14 April 2011.

CURRENT JOB DUTIES:

- Teaching and Instruction.
- Researcher: Department of Computer Engineering at Al-Hussein Bin Talal University
- Guiding and Follow-Up of the Students.
- Selection of the Textbooks and References Needed.
- Discussing graduation projects for computer science students
- Follow-up computer science students during the field training period and discuss with them
- Supervisor of the Department of Computer Science for a period of three years during the period from 15/10/ 2017 to 20 /11/2020.
- Supervisor of the Measurement and Evaluation Unit from 13/12/2020 until now.

COURSES TAUGHT:

1. Introduction to Electronics
2. Engineering analysis
3. Engineering Drawings using AutoCAD
4. Fundamentals to Information Technology
5. Logic Lab
6. Digital Control Lab
7. Computer Architecture
8. Theory of Computation
9. Human Computer Interaction
10. Internet and web
11. advance software engineer
12. Multimedia system
13. Computer Organization and Assembly Language
14. Data structures and algorithms
15. Design and Analysis of Algorithms
16. Computer Ethics
17. Network and computer security
18. Computer Operating Systems
19. Artificial Intelligence
20. Genetics Programming
21. Wireless Networks
22. Internetworking protocols

LANGUAGES:

Arabic: Mother Tongue.

English: Reading (excellent), Writing (excellent) and Conversation (excellent).

Russian: Reading (excellent), Writing (excellent) and Conversation (excellent).

REFERENCES:

1. Dr. Bassam Qaralleh: Associate Prof. of Al-Hussein Bin Talal University/ Ma'an/ Jordan.
2. Dr. Ibrahim Altarawneh: Associate Prof. at the Department of Chemical Engineering- Al-Hussein Bin Talal University
3. Dr. Nidal Al-Dmour: Associate Prof. at the Department of Computer Engineering- Mu'tah University