

CV



Personal information

Name: Musaria Karim Mahmood

Age: 56 Years

Scientific rank: Associate Professor Dr.

Field: PhD in Communication & Electronics Engineering

Languages: Arab, French, English (YDS=85), Turkish

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Note: Experience in Accreditation Board for Engineering and Technology-ABET, and the Turkish accreditation-MUDEK

Research interest:

Communication network design, Computer Network reliability, WSN, data security, optimization techniques.

Previous position

- (1) Assistant Professor at the Department of Electrical and Electronic Engineering, Istanbul Gelisim University, Istanbul, Turkey since 2018,
- (2) Visiting Professor at the Department of Electrical and Electronic Engineering, Atilim University, Ankara, Turkey (2017-2018)
- (3) Faculty member at Philadelphia University (Jordan), College of Engineering, Department of Communication and Electronics Engineering (2016-2017).
- (4) Faculty member at Tikrit University/ Iraq, College of Engineering, Department of Electrical Engineering since 2004-2016.

Scientific diplomas

- 1- Diploma in French language (France- Richford 1982-1983),
- 2- High Diploma of Engineering in Electronics (BSc. & Master in Electronics- 1983-1990) from Ecole National Superior des Ingineurs d'Etude ET Technique d'Armement (ENSTA Bretagne) - France-Brest.

- 3- Master in Communication (1994-1996) from Al-Nahrain University, Iraq-Baghdad. Title of Master Thesis: Evaluation of Routing Algorithms for packet switching nodes in Computer Communication Networks.
- 4- PhD from Al-Nahrain University (Iraq) in Communication and Electronic Engineering. Title of Doctorate thesis: (Design and simulation of a web-based Monitoring System for the North oil Refinery in Baiji). 2012. Ph.D. research in part with the Technical University of Athens in Greece (6 Months), and one month in ENSIETA (France).

Experience in University (Given courses)

A. Graduate: Master & PhD. Program (English Programs)

1. Linear system theory- Atilim & Istanbul Gelisim Universities
2. Advanced Communication networks- Atilim University
3. Advanced Numerical Analysis- Istanbul Gelisim University
4. Speech Signal Processing- Istanbul Gelisim University
5. Coding in digital Communication- Istanbul Gelisim University
6. Networks and systems reliability theory- Istanbul Gelisim
7. Probability and stochastic processes- Istanbul Gelisim University
8. Communication network design- Istanbul Gelisim University
9. Scientific Research Techniques- Istanbul Gelisim University
10. Introduction to thesis and seminar- Istanbul Gelisim University
11. Research methodology- Tikrit University (Iraq)
12. Academic research procedures and techniques- Al-Iraqia University
13. Computer networks and robotics- Al-Iraqia University (Iraq)
14. Distributed Control systems- Al-Iraqia University (Iraq)

B. Undergraduate courses:

I taught the following courses:

15. Calculus I (Tikrit University)
16. Calculus II (Tikrit University)
17. Engineering Analysis (advanced mathematics) (Tikrit University)
18. Signals and systems (Tikrit University)
19. Analogue Communication (Tikrit University)
20. Transmission lines (Tikrit University)
21. Computer networks (Tikrit & Philadelphia & Atilim University)

- 22.Satellite communication (Tikrit University)
- 23.Communication circuits (Philadelphia University)
- 24.Engineering skills. (Philadelphia University)
- 25.Digital communication (Philadelphia University)
- 26.Digital Electronics (Atilim University)
- 27.Electrical circuits (Atilim University)
- 28.Power electronics (Istanbul Gelisim University)
- 29.CADII Istanbul (Istanbul Gelisim University)
30. DSP (Al-Iraqia),
31. Electromagnetic Fields (Istanbul Gelisim University)

Master Degree Student supervision:

Supervision of (14) master degree students in their research topics (3 already graduated).

Undergraduate Student supervision:

Every semester, I'm supervising a number of students for their graduation project.

Published Papers

- 1- Musaria K. Mahmood, and Fawzi M. Al- Naima, (Developing a Multi-LayerStrategy for Securing Control Systems of Oil Refineries), Wireless SensorNetwork, 2010, 2, 520-527 doi:10.4236/wsn.2010.27064 Published Online July2010 (<http://www.SciRP.org/journal/wsn>).
- 2- Musaria K. Mahmood, and Fawzi M. Al- Naima, (An Internet Based Distributed Control Systems: A Case Study of Oil Refineries), Energy and Power Engineering,2011. 1, doi: 10.4236/ EPE.2011.6201211 Published Online July 2011 (<http://www.SciRP.org/journal/epe>).
- 3- Musaria K. Mahmood, Fawzi M. Al- Naima, and Nikolaos K. Uzunoglu, (OPNET Simulation of data transmission network: a case study for control system in the Petroleum refinery complex in Iraq), Published and presented at Mosharaka International Conference on Communications, Computers, and applications (MIC-CCA2011) in Istanbul, Turkey, 22-24 July 2011.
- 4- Musaria K. Mahmood, Fawzi M. Al- Naima, and Nikolaos K. Uzunoglu (Designand Simulation of a Data Transmission Network for Industrial Control System Subject to Reliability Improvement), Published and presented at ICFCN12. 2012, Iraq IEEE Conf.
- 5- Riyad M. Mahmood, Musaria K. Mahmood, and Naseer R. Naim (Difficulties and Limitations of the Signal Transfer from Mars to

Earth) Conference of Computer and Mathematic, University of Tikrit – Iraq.

- 6- Musaria K. Mahmood, (Development of New Algorithm for Communication Networks Reliability Based on Tie Set Method Combined with a modified Flooding Algorithm) Tikrit Journal of Engineering Sciences/Vol.20/No.1/March 2013, (10-20).
- 7- Musaria K. Mahmood, Sufyan H. Ali, and Jamal I. Abdul Baki, (A survey of probabilistic reliability calculation for computer communication networks). American academic & scholarly research journal, Vol 5., No.3, April 2013
- 8- Musaria K. Mahmood, and Fawzi M. Al-Naima, (Design of Reliable Network Topology for the North Refinery of Baiji with Minimum Cost), Second Iraqi Oil and Gas Conference. Baghdad, 2013.
- 9- Musaria K. Mahmood, Lujain S. Abdulla, and Fawzi M. Al-Naima, (Hybrid Algorithm for Complex Communication Networks Reliability Evaluation), First International scientific Conference of Cihan, Iraq, Erbil 2014.
- 10- Musaria K. Mahmood, Lujain S. Abdulla, and Fawzi M. Al-Naima, (An efficient multi-stages algorithm for the determination of communication network reliability), International Journal of computers and communications, Vol. 9, 2015.
- 11- Musaria K. Mahmood et. al., "MATLAB Implementation of 128-key length SAFER+ Cipher System", Int. Journal of Engineering Research and Application, Vol. 7, Issue 2, February 2017, pp.49-55.
- 12- Musaria K. Mahmood, and Sufyan H. Ali, "Analysis, Modeling, and design of a Reliable Wide Area Network. Case study for Tikrit University Intranet", Tikrit Journal of Engineering Sciences, (2018), Vol. 25 Issue 2, pp. 35-39.
- 13- Musaria K. Mahmood, Fawzi M. Al-Naima, and Zahraa Zaidan, "Design and Reliability Assessment of Communication Network: A Case Study for the Iraqi National Communication Network", Indonesian Journal of Electrical Eng. And Informatics, Vol. 6, No. 4, Dec. 2018, pp448-457.

- 14- Baki Koyuncu, Musaria Karim Mahmood, and Indrit Myderrizi, "Wave energy converters, theory and applications: a review", The 2nd international Conf. on Energy Research, Marmaris, Turkey, 11-13 April, 2019.
- 15- Musaria K. Mahmood, and Indrit Myderrizi, 'Reliability Evaluation Using a Clustering Technique Based on Tie-set Method', 43rd IEEE International Conference on Telecommunications and Signal Processing, Italy, 7-9 July 2020.
- 16- Musaria K. Mahmood. And Indrit Myderrizi, 'Secure and Fast Encryption Routine+: Evaluation by Software Application', International Journal of Engineering Technologies, INTERNATIONAL JOURNAL of ENGINEERING TECHNOLOGIES, Vol. 6, No. 2, 2020.
- 17- Musaria K. Mahmood, Zahraa Zaidan, Sulaiman Musaria, Osman Ucan, 'Hybrid Algorithm for Two-Terminal Reliability Evaluation in Communication Networks', Indonesian Journal of Electrical Engineering and Computer science, Vol. 21, No. 2, February 2021, pp. 1185-1192
- 18- Hajer Faris, Musaria K. Mahmood, and Osama Al-Omari, "A Comprehensive Analysis of Energy Dissipation in LEACH Protocol for Wireless Sensor Networks", 18th International Multi-Conference on Systems, Signals & Devices, Tunisia, March, 2021.
- 19- Lujain S. Abdulla, Musaria K. Mahmood, Abbas F. S., and Sulaiman M. K., "Analysis and evaluation of symmetric key ciphers for internet of things smart home", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 22, No. 2, May 2021, pp. 583~590.
- 20- M. F. Jumaili, Musaria K. Mahmood, Emmanuel O.C. Mkpojiogu, Sulaiman M. Karim, "An Analysis of Twitter Contents Using Sentiment Analysis", AMA, Agricultural Mechanization in Asia, Africa and Latin America, accepted for publication in June.
- 21- Nazik Aljbur, Musaria K. Mahmood. And Indrit Myderrizi, "Combination of Graph Reduction and Tie-set Techniques for Network Reliability Assessment", 1st Babylon International Conference on Information Technology and Science, May 2021.
- 22- Sulaiman M. Karim, Celal Ozturk, Musaria K. Mahmood, 'ABC-Based Optimization of Cluster Head Selection in Wireless Sensor Networks', International Journal of Electrical Eng. and Informatics, accepted for publication in June 2021.

+ Five submitted papers

Participation in Conferences:

- 1- MOSHARAKA International Conference on Communications, Computers and Applications (MIC-CCA 2011), Istanbul Turkey, 2011.
- 2- Second International Conference of Almarif University, Iraq 2011.
- 3- International Conference on Future Communication Networks (ICFCN'12), Iraq 2012.
- 4- Conference of Computer and Mathematic Science, Iraq- Tikrit University, 2012.
- 5- Second Conference of Engineering Science, Iraq 2012.
- 6- Information Systems and Technology Management for Innovation and Regional Development, Amman, Jordan, 2013.
- 7- First International Scientific conference, Erbil, Iraq, 2014.
- 8- 2nd international Conf. on Energy Research, Marmaris, Turkey, 11-13 April, 2019
- 9- 1st Babylon International Conference on Information Technology and Science, May 2021
- 10- 18th International Multi-Conference on Systems, Signals & Devices, Tunisia, March, 2021
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Training courses

- 1- One Month of training in the ENSIETA Lab. (France- Brest 2010).
- 2- Six Months of scientific scholarship in the Technical University of Athens (Greece 2010-2011).



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