

# Academic Curriculum



## Personal Information:

Full Name: Thuraya Mahmood Abdusamad Al-Qaradaghi

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## Education:

1979 B.Sc. in Electrical Engineering, University of Technology – Baghdad.

1990 M.Sc.in Instructional Technology for Electronic and Communications Engineering.

2009 Ph.D. in Communications Engineering, University of Technology-Baghdad/Co-operated with Monash University/Melbourne-Australia.

## Employment:

1979-1997: One of the teaching staffs in Foundation of Technical Institutes.

Since 1997: One of the teaching staffs in Department of Electrical Engineering, College of Engineering – University of Salahaddin, Erbil – Iraqi Kurdistan Region.

## Teaching experience:

I taught many subjects for post and under graduates' students as shown below:

- **Post Graduate:** Advance Communications Engineering, Coding Techniques, Mobile Communications, Coding and Information Security.
- **Under Graduate:** Information and coding theory, Digital Communications, Digital Electronics, Digital Electronics and Microprocessors, Electrical circuits, Electrical

measurements, Communication Lab., Electrical circuits Lab., Communications Engineering.

## Research and publications

1. An Investigation of Low-density Parity-Check Codes and Polar Codes for future communication systems, Indonesian Journal of Electrical Engineering and Computer Science, Vol.30, No.1, April 2023.
2. Performance Analysis of Different Flexible Decoding Algorithms for NR-LDPC Codes, Tikrit Journal of Engineering and Sciences, Vol. 30, No.1, pp. 10-18, 2022.
3. Effect of Number of Base Station Antennas on the Performance of Massive-MIMO System, Zanco Journal for pure and applied science/Salahaddin University, Hawler, 2019.
4. Effect of Doppler Shift Frequency on the Performance of 2x2 OSTBC-OFDM System, 1<sup>st</sup> International Conference on Information Technology (ICoIT'17), Lebanese French University, Erbil, Kurdistan Region-Iraq, 10th April 2017.
5. Investigating the effect of Error Correcting Codes on the compressed speech signals, Zanco Journal for pure and applied science/Salahaddin University, Hawler, 2016.
6. Cryptosystem Based on Error Correcting Codes, Zanco Journal for pure and applied science/Salahaddin University-Hawler, 2016.
7. 4x4 MIMO-WiMAX System, Zanco Journal for pure and applied science/Salahaddin University-Hawler, 2016.
8. Comparison between Separable and Irreducible Goppa Code in McEliece Cryptosystem, 17th International Conference on Cryptography and Network Security (ICCNs), Istanbul, Turkey, 26-27 Nov. 2015.
9. Evaluation of Different 4x4 Coded MIMO System, Journal of Zankoy Sulaimani Part A for Pure and Applied Sciences, Vol. 17, No. 2, 2015.
10. Performance Analysis of MIMO-WiMAX, International Conference of Academic Disciplines, Ca' Foscari University, Venice, Italy, June 30 to July 3<sup>rd</sup>, 2014.
11. Performance Evaluation for QPSK with LDPC over Nakagami Fading Channels, Zanco Journal, University of Salahaddin/ Erbil, Vol.25, No.1, 2013.
12. Serially Concatenation of Forward Error Correction Code for Real Time Applications, Engineering and Development Journal, Al-Mustansiriya University.
13. Performance Evaluation for BPSK-MIMO System with LDPC over Rayleigh Fading Channel, Academic Journal of Science, Vol.2, No.2, 2013.
14. -Error Rate Probability for BPSK-MIMO System with Cyclic Code over Rayleigh Fading Channel, Academic Journal of Science, Vol.2, No.2, 2013.
15. Low Bit Error Rate Using Combination of BCH and LDPC Codes for Higher Data Rate, 4th International Conference, University of Salahaddin-Erbil, October 2011.

16. BER for M-QAM with LDPC over Nakagami Fading Channels, International Journal of Arts & Sciences (IJAS) conference, American University of Rome, October 31 to November 3, 2011.
17. A Comparison between STBC-OFDM and SFBC-OFDM, International Journal of Arts & Sciences (IJAS) conference, American University of Rome, October 31 to November 3, 2011.
18. New Trend of Space-Frequency Block Code-OFDM, Journal of Zankoy Sulaimani, Kurdistan Region-Iraq, Vol.13A No.1 December 2010.
19. Low Complexity High Data Rate Transmit Diversity Block Code (TDBC), Zanco Journal, Salahaddin University-Hawler 2009.
20. Applying MATLAB FFOFDM, WOFDM and WPOFDM over Flat-Fading and Frequency-Selective Channels, Zanco Journal for pure and applied science/Salahaddin University-Hawler, Vol.20, No.5, 2008.
21. Effect of number of levels in QAM system on BER, Zanco Journal, Salahaddin University-Hawler Vol.17, No.2, 2005.
22. An investigation TDM for PAM signals, Journal of Zankoy Sulaimani, 2005.
23. Computer package for linear applications of Op. Amp., Technical journal – Baghdad.1995.

## Conferences and courses attended

- May 25 2023, International Electrical Safety and Risk Assessment Symposium, Research center of Salahaddin University.
- 2019, International conference of College of Engineering/ Salahaddin University.
- 10th April 2017, 1st International Conference on Information Technology (ICoIT'17), Lebanese French University, Erbil, Kurdistan Region-Iraq.
- March 29-30, 2017, 2nd International Scientific Conference on Communication Engineering and Computer Science (CIC-COCOS'17), Cihan University-Erbil, Kurdistan Region-Iraq.
- April 12-14, 2016, 1st International Conference on Engineering and Innovative Technology, Erbil, Kurdistan, Iraq.
- Nov. 26-27, 2015, 17th International Conference on Cryptography and Network Security (ICCNS), Istanbul, Turkey.
- June 30 to July 3rd, 2014, International Journal of Art and Science Conference for academic disciplines in Venice/Italy.
- March 3-7, 2013, International Journal of Art and Science Conference for academic disciplines in Valletta/Malta.
- October 18-20, 2011, International Scientific Conference of Salahaddin University, Erbil, Kurdistan, Iraq.
- October 31 to November 3, 2011, International Journal of Art and Science Conference for academic disciplines in American University, Rome/Italy.

- December 14th to 16th 2010, International conference in Revitalizing Research in Kurdistan, Ministry of Higher Education and Scientific Research, Kurdistan Regional Government.
- 1996 5th scientific conference of Foundation of Technical Institutes – Baghdad.

## **Funding and academic awards**

- (2007-11-24) to (2008-5-24): Research scholarship in Monash University, Melbourne/Australia.

## **Professional memberships**

- Kurdistan Engineers Union.
- Iraq Engineers Union.

## **Professional Social Network Accounts:**

- <https://www.researchgate.net/profile/Thuraya-Qaradaghi>.
- LinkedIn.com/Thuraya Qaradaghi