

## University of Mosul/ College of / Computer Engineering Department

### Master's and PhD Thesis – Computer Engineering Department (2022–May 2025)

No.	Title	Student Name	Supervisor	Type	Year
1	Contactless monitoring of health signs based on video processing technologies	Doaa Hussein Ali	Dr. Mazin Hashim Aziz	M.Sc.	2022
2	Improving routing protocol performance for wireless body area networks for healthcare applications	Sara Raed Abdul	Prof. Dr. Salah Abdelghani	Ph.D.	2022
3	Masked Face Recognition and Analysis System Using Deep Learning	Yahya Abdel Sattar	Dr. Ahmed Mamoun Fadel	M.Sc.	2022
4	Improving the Advanced Encryption Standard for the Internet of Things	Alaa Salem Abdul Razzaq	Prof. Dr. Salah Abdelghani	M.Sc.	2022
5	Detecting and Recognizing Arabic Sign Language Using Deep Learning for Heterogeneous Computing	Muhammad Haqi Ismail	Prof. Dr. Shifaa Abdulrahman	Ph.D.	2022
6	Use of computing MRI parallel implementation of heterogeneous cardiac image fusion	Ola Tarek Quba	Prof. Dr. Shifaa Abdulrahman	Ph.D.	2022
7	Using highly secure and reliable smart meters for smart city applications	Mustafa Saham	Prof. Dr. Qutaiba Ibrahim	Ph.D.	2022
8	Iris recognition using deep learning-based segmentation and feature extraction	Roya Waleed Jalal	Asst. Prof. Dr. Mayada Faris Ghanim	M.Sc.	2022
9	Development of an energy-efficient routing protocol for wireless sensor networks based on the	Ban Iyad Ahmed	Prof. Dr. Salah Abdelghani	M.Sc.	2022

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	classification algorithm				
10	Automated pain recognition through facial expressions	Murtaza Abdullah	Dr. Mazin Hashim Aziz	M.Sc.	2023
11	Implementation of patient vital signs monitoring system in hospitals	Shahd Abdulrahman	Dr. Sara Nawfal Abdul Razzaq	M.Sc.	2023
12	Developing a model-based approach using validation methods and tolerating errors	Fihaa Hamidi	Shaukat Sabah Khairullah	M.Sc.	2023
13	Implementing and analyzing load balancing in a cloud environment	Ola Hani Fathy	Asst. Prof. Dr. Turkan Ahmed Khalil	M.Sc.	2023
14	The impact of programmable network architecture on the performance of IoT protocols	Salar Jamal Rashid	Dr. Ahmed Mamoun Fadel	Ph.D.	2023
15	Smart monitoring for obesity prevention based on the Internet of Things	Omar Mohamed Taher	Dr. Rabih Muwaffaq Hajim	M.Sc.	2023
16	Built-in biometric system to recognize people	Nawar Ali Ibrahim	Dr. Ahmed Mamoun Fadel	Ph.D.	2023
17	Design and implementation of a routing protocol for unmanned aerial vehicle networks to support disaster management	Zahraa Tarek Mohammed Dhiab	Prof. Dr. Salah Abdelghani	Ph.D.	2023
18	A holistic handwriting recognition system based on Lavian neural networks	Amna Mohamed Abdelhamid	Asst. Prof. Dr. Mayada Fares Ghanem	M.Sc.	2023
19	Towards building a sustainable environment using shading systems	Muhammad Fattah Shiet	Dr. Basman Mahmoud Hassan	M.Sc.	2023

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20	Smart and secure exam monitoring system with IoT and Moodle integration	Hussein Mahmoud	Prof. Dr. Qutaiba Ibrahim	Ph.D.	2023
21	Using machine learning to categorize individuals based on hand images	Sarah Ibrahim Fathy	Dr. Mazin Hashim Aziz	M.Sc.	2024
22	Analyzing network workload performance in fuzzy computing	Omar Anwar Nafaa	Asst. Prof. Dr. Turkan Ahmed Khalil	M.Sc.	2024
23	Physical Entity Architecture to encode the channel for the purpose of visualization	Zainab Ali Waad	Dr. Dhafer Abdel Fattah	M.Sc.	2024
24	Deep learning system to detect and predict epileptic seizures	Ola Marwan Asem	Dr. Ahlam Fadel Mahmoud	Ph.D.	2024
25	Video prediction using triple deep lava neural networks	Zahraa Talal Abdul	Prof. Dr. Shifaa Abdulrahman	Ph.D.	2024
26	SIMD architectures for DCNNs using heterogeneous material	Maamoun Abduljabbar	Prof. Dr. Shifaa Abdulrahman	Ph.D.	2024
27	Hybrid optical network design with fiber cut detection system	Mohamed Ahmed Khalil	Asst. Prof. Dr. Mayada Fares Ghanem	M.Sc.	2024
28	Non-invasive estimation of infant jaundice from skin images using machine learning	Banan Khaled Abdulqader	Dr. Mazin Hashim Aziz	M.Sc.	2025
29	Intelligent unmanned vehicle to assist humans in critical underwater missions	Ali Fadel Rashid Othman	Dr. Rabea Mowafak Hagem and Dr. Abdul Sattar Mohammed Khadr	Ph.D.	2025

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30	Design and development of a road module for an intelligent transportation system	Muhammad Fadel	Prof. Dr. Qutaiba Ibrahim	M.Sc.	2025

Updated: May 2025