



# Zaid Abdulsattar Abdulrazaq

زيد عبد الستار عبد الرزاق حسوأل عزيل

Assistant Professor

## ACADEMIC TITLES

2023-02-26

Assistant Professor

## PUBLICATIONS ( 1 2 )

- Synergistic Construction of High-Performance S-Boxes based on Chaotic Systems: A Paradigm Shift in Cryptographic Security Design**  
*Chaos and Fractals 2 (2), 43-49, 2025 | 2025 | Cited: 5*
- Efficient Real-Time Key Generation for IoT Using Multi-Dimensional Chaotic Maps**  
*International Journal of Computational and Electronic Aspects in Engineering&nbsp;..., 2025 | 2025 | Cited: 1*
- Real-time FPGA-based grayscale image hiding with key masking for secure LSB steganography**  
*2025*
- Hybrid software-hardware image encryption techniques for network security using multiple chaotic maps**  
*2025*
- Advanced Denoising of EMG Signals for Medical Applications: A Novel Arduino-Based Enhancement Approach**  
*ESP International Journal of Advancements in Science & Technology 3 (2), 20-26, 2025 | 2025*
- Design and Enhancing Security Performance of Image Cryptography System Based on Fixed Point Chaotic Maps Stream Ciphers in FPGA**  
*Baghdad Science Journal 21 (5 (SI)), 1754-1754, 2024 | 2024*
- New Novel FPGA Based Image Encryption Methods Using Multiple Chaotic Maps**  
*2024 International Conference on Computer and Applications (ICCA), 1-6, 2024 | 2024 | Cited: 4*
- Design and enhancing security performance of image cryptography system based on fixed point chaotic maps stream ciphers in FPGA**  
*Baghdad Science Journal 21 (5), 26, 2024 | 2024 | Cited: 16*
- Unveiling robust security: Chaotic maps for frequency hopping implementation in FPGA**  
*Ain Shams Engineering Journal 15 (11), 103016, 2024 | 2024 | Cited: 8*
- FPGA Based of RSA Algorithm Implementation**  
*0*
- Enhancing AES Encryption with Chaotic Maps for Improved Network Security**  
*0*
- Enhancing Multi-Image Hiding Using Fpga-Based Lsb Acceleration**  
*Available at SSRN 4960736, 0 | 0*

## CONTACT

Phone: 07703364432

Email: zaid.a.abdulrazzaq@ntu.edu.iq

zaid.a.abdulrazzaq@ntu.edu.iq

## EDUCATION

ماجستير (19-11-2018)

Science in computer engineering and informatics  
mosul

## RESEARCH METRICS

h-index (Scopus)	2
h-index (GS)	4
Citations (Scopus)	12
Citations (GS)	34
Documents (Scopus)	3
Documents (GS)	11

