

AL-NAHRAIN UNIVERSITY
COLLEGE OF INFORMATION ENGINEERING
INFORMATION AND COMMUNICATION
ENGINEERING DEPARTMENT



Personal Details

Name	Hamsa Abdulkareem Abdullah
Scientific degree	Ph.D.
Current position	Lecturer
Emails	hamssa_kareem@yahoo.com hamsa.alanbugi@gmail.com hamsa.abdulkareem@coie-nahrain.edu.iq



Education Qualifications:

University Name	Degree	Issue Date	Field	Country
Al-Nahrain University	Doctor of Philosophy	2019	Information & Communication Engineering	Iraq
Al-Nahrain University	Master Of Science	2008	Information Engineering	Iraq
Al-Nahrain University	Bachelor Of Science	2005	Information Engineering	Iraq

Teaching Experience:

Data Communication
Communication Systems
Multimedia Computing
Image Processing
E-Commerce
Digital Electronics
IT Fundamentals
Fundamentals of Logic Design
Probability Theory & statistic

Current Research Interest:

Multimedia Computing
Multimedia Security
Database Management
Data Security and Hardware Implementation
Identification Systems
Data Communication and its Hardware Implementation

Published Research

Name of Research	Year
Implementation of digital and analog modulation systems using FPGA	2020
A hybrid chaotic map for communication security applications	2020
Neuro-fuzzy inference system based face recognition using feature extraction	2020

Embedded Hardware Implementation for Image Security Using Chaotic Maps	2020
Secure Image Transmission Based on a Proposed Chaotic Maps	2020
Colour image encryption using Nahrain chaotic map	2019
Two-level Secure Colored Image Transmission Using Novel Chaotic Map	2019
Design And FPAA Implementation Of Novel Chaotic System	2019
FPGA Implementation of Color Image Encryption Using a New Chaotic Map	2019
FPAA Implementation of Chaotic Modulation Based on Nahrain Map	2018
A New Chaotic Map for Secure Transmission	2018
Four-Dimensional Tinkerbelle Chaotic System for Secure Transmission	2017
Image encryption using hybrid chaotic map	2017
Audio Steganography and Security by using Cryptography	2015
Student Attendance Management System	2015
Data Security Algorithm Using Two-Way Encryption And Hiding In Multimedia Files	2014
Fingerprint identification system using neural networks	2012
Moving Object Detection, Tracking and Classification Using Neural Networks	2012
Hybrid Method for Video Watermarking & Encryption	2012
Text Hiding in AVI Video	2010
Eye-Identification System Based on Back-Propagation NN Recognizer	2009
Constant Bit Rate For Video Streaming Over Packet Switching Networks	2008

Scientific Activities

Paper Review	6
Thesis Review (Vocabulary)	2
Examination Committee	3
Scientific Committee	1



جامعة النهرين
كلية هندسة المعلومات
قسم هندسة المعلومات والاتصالات

المعلومات الشخصية:



الاسم	همسه عبدالكريم عبدالله
الدرجة العلمية	مدرس دكتور
المنصب الحالي	تدريسي
البريد الالكتروني	hamssa_kareem@yahoo.com hamsa.alanbugi@gmail.com hamsa.abdulkareem@coie-nahrain.edu.iq

التحصيل الدراسي:

الجامعة	الدرجة العلمية	سنة التخرج	الاختصاص	بلد الدراسة
النهرين	دكتوراه	2019	هندسة معلومات واتصالات	العراق
النهرين	ماجستير	2008	هندسة معلومات	العراق
النهرين	بكلوريوس	2005	هندسة معلومات	العراق

الخبرة التدريسية:

اتصالات البيانات
انظمة الاتصالات
حوسبة الوسائط المتعددة
معالجة الصور
التجارة الالكترونية
الالكترونيك الرقمي
مبادئ تقنية المعلومات
مبادئ التصميم المنطقي
نظرية الاحتمالية والاحصاء

الاهتمام البحثي الحالي:

حوسبة الوسائط المتعددة
امنية الوسائط المتعددة
ادارة قواعد البيانات
امنية المعلومات وبناءها عمليا
انظمة تحديد الهوية
اتصالات البيانات وبناءها عمليا

البحوث المنشورة:

اسم البحث	سنة النشر
Implementation of digital and analog modulation systems using FPGA	2020
A hybrid chaotic map for communication security applications	2020
Neuro-fuzzy inference system based face recognition using feature extraction	2020

2020	Embedded Hardware Implementation for Image Security Using Chaotic Maps
2020	Secure Image Transmission Based on a Proposed Chaotic Maps
2019	Colour image encryption using Nahrain chaotic map
2019	Two-level Secure Colored Image Transmission Using Novel Chaotic Map
2019	Design And FPAA Implementation Of Novel Chaotic System
2019	FPGA Implementation of Color Image Encryption Using a New Chaotic Map
2018	FPAA Implementation of Chaotic Modulation Based on Nahrain Map
2018	A New Chaotic Map for Secure Transmission
2017	Four-Dimensional Tinkerbelle Chaotic System for Secure Transmission
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2015	Audio Steganography and Security by using Cryptography
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2014	Data Security Algorithm Using Two-Way Encryption And Hiding In Multimedia Files
2012	Fingerprint identification system using neural networks
2012	Moving Object Detection, Tracking and Classification Using Neural Networks
2012	Hybrid Method for Video Watermarking & Encryption
2010	Text Hiding in AVI Video
2009	Eye-Identification System Based on Back-Propagation NN Recognizer
2008	Constant Bit Rate For Video Streaming Over Packet Switching Networks

النشاطات العلمية:

6	تقييم بحوث علميا
2	تقييم لغوي
3	لجان امتحانية
1	لجنة علمية