FACULTY FULL NAME: Rachid Zagrouba
POSITION:

Personal Data

Nationality | Tunisian

Date of Birth | 18/10/1975

Department | CIS

Official UoD Email | rmzagrouba@iau.edu.sa

Office Phone No. | 0568321323

Language Proficiency

Language	Read	Write	Speak
Arabic	x	x	x
English	x	x	x
French	x	x	x

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2007	PhD	France	Rennes
2003	Master	Tunisia	Tunis
2001	Engineer	Tunisia	Tunis

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	QoS and Mobility management within IP cellular network
Master	QoS architecture management for UMTS networks
Fellowship	Design and Development of an new network sniffer

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Assistant Professor	IAU University, Dammam	Since 2015
Assistant Professor	University of Tunis El Manar	2013-2015

Assistant Professor		University of Jendouba	2008-2013

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	M. Aljabri, R. Zagrouba, A. Shaahid, F. Alnasser, A. Saleh, D. Alomari	Machine learning-based social media bot detection: a comprehensive literature review	Social Network Analysis and Mining, January 2023
2	F. Alhaidari, N. Abu Shaib, M. Alsafi, A. Alrahman, R. Zagrouba	ZeVigilante: Detecting Zero-Day Malware Using Machine Learning and Sandboxing Analysis Techniques	Computational Intelligence and Neuroscience, May 2022
3	I Elaalmi, SO. Olatunji and R. Zagrouba	"AT-BOD: An Adversarial Attack on Fool DNN-Based Blackbox Object Detection Models",	Applied sciences Journal, February 2022
4	R. Zagrouba and A. Kardi	Comparative Study of Energy Efficient Routing Techniques in Wireless Sensor Networks. Information 2021, 12, 42	Information Journal, February 2021
5	R Zagrouba, A Alabdullatif, K Alajaji, N Alserhani, F Al-Haidari, A, Almuhaidab and A Urrahman	Authenblue: A New Authentication Protocol for the Industrial Internet of Things	Cmc -Tech Science Press Journal, January 2021
6	Rachid Zagrouba, Muhammad Khan, Atta Ur Rahman, Muhammad Choudhry, Muhammad Mushtaq, Abdur Rehman Sakhawat, Muhammad Farhan Khan	Modelling and Simulation of COVID-19 Outbreak Prediction Using Supervised Machine Learning	Cmc -Tech Science Press Journal, December 2020
7	Hind AlRubaish and Rachid Zagrouba	The Effects of Facial Expressions on Face Biometric System's Reliability	Information Journal, October 2020
8	Fatimah Al Naji and Rachid Zagrouba	A survey on continuous authentication methods in Internet of Things environment	Computer Communications, September 2020
9	Ali Al Mousa, Mohammad Al Qomri, Salman Al Hajri, Rachid Zagrouba	Utilizing the eSIM for Public Key Cryptography: a Network Security Solution for 6G	IEEE 2020 International Conference on Computer and Information Sciences (ICCIS), Aljouf, KSA
10	Faizah Alqahtani, Rachid Zagrouba	Fingerprint Anti-Spoofing Detection System LQF-HSVM	IEEE 2020 International Conference on Computer and Information Sciences (ICCIS), Aljouf, KSA

11	Ali Al Mousa, Mohammad Al Qomri, Salman Al Hajri, Rachid Zagrouba, Sghaier Chaabani	Environment Based IoT Security Risks and Vulnerabilities Management	IEEE 2020-International Conference on Computing and Information Technology, Tabuk, KSA
12	Amine Kardi and Rachid Zagrouba	Hybrid Cryptography Algorithm for Secure Data Communication in WSNs: DECRSA	Congress on Intelligent Systems CIS 2020, September 2020
13	Rachid Zagrouba	AMIS: Authentication Mechanism for IoT Security	ACTA SCIENTIFIC COMPUTER SCIENCES, June 2020
14	Fahad Alhaidari, Atta Urrahman, Rachid Zagrouba	Cloud of Things: architecture, applications and challenges	Journal of Ambient Intelligence and Humanized Computing, May 2020
15	Amine Kardi and Rachid Zagrouba	RaCH: A New Radial Cluster Head Selection Algorithm for Wireless Sensor Networks	Journal of Wireless Personal Communications, April 2020
16	Munir Ahmad, Abdul Qadir Muhammad, Atta Rahman, Rachid Zagrouba, Fahd Alhaidari, Ali Tariq, Zahid Farzana	Enhanced query processing over semantic cache for cloud based relational databases	Journal of Ambient Intelligence and Humanized Computing, May 2020
17	Fatimah Hussain Al-Naji, Rachid Zagrouba	Secure IoT Based on Blockchain: Quantitive Evaluation and Analysis of the Correlation Between Block Mining Time and Blockchain Efficiency	International Journal of Applied Engineering Research, January, 2020
18	Hind Baaqeel, Rachid Zagrouba	Biometrics Based Remote user Authentication in Fog-Enabled IoT	5th International Conference on Computer Science and Information Technology, December, 2019, Dubai, UAE
19	Amine Kardi	Attacks classification and security mechanisms in Wireless Sensor Networks	Advances in Science, Technology and Engineering Systems Journal
20	L. Alsalem, S. Alqahtani, S. Alharbi, R. Zagrouba	CLOUD COMPUTING BASED ATTACKS AND COUNTERMEASURES: A SURVEY	JOURNAL OF THEORETICAL AND APPLIED INFORMATION TECHNOLOGY (JATIT), December 2019
21	Hind Alrubaich, Rachid Zagrouba	Cluster-Based Hierarchical Message Authentication Code to Secure Data Dissemination in Wireless Sensor Network(CHiMAC)	journal International Journal of Applied Engineering Research (IJAER) 14 (9), 2084-2088, November 2019
22	Reem Alhajri, Rachid Zagrouba, Fahd Al-Haidari,	Survey for Anomaly Detection of IoT Botnets Using Machine Learning Auto-Encoders	International Journal of Applied Engineering Research 14 (10), 2417-2421, September 2019

Contribution to Scientific Conferences and Symposia

#	Association Name	Date

1	Reviewer with Journal of Computer network	2019/2020
2	Reviewer with Acta of Scientific computer journal	2020
3	Scientific committee member in 7th International Conference on Computer Science, Engineering and Information Technology (CSEIT 2020)	2020
4	Scientific committee member in SETIT conference	2019/2021
5	Scientific committee member in, 2020 1st Conference on Internet of Things and Embedded Intelligence (CITEI 2020)	2020
6	Scientific committee member in, The 35th International Conference on Information Networking (ICOIN) 2021	2021

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Security Threats and Vulnerabilities	CYS 506	48 lectures
2	Wireless and Mobile security	CYS 502	48 lectures
3	Information Security Management	CYS 409	48 lectures
4	Selected Topic in IS	CIS 522	48 lectures
5	Modeling and Simulation	CS 515	48 lectures
6	Project Proposal	CYS 501	48 lectures
7	Project Implementation	CYS 508	48 lectures
8	Communications and Networks fundamentals	CIS 315	32 lectures and 32 labs
9	Cyber laws and policies	CYS 401	48 lectures
10	Computer data Security	CIS 425	48 lectures

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution

			(no. of lectures/Tutorials. Or labs, Clinics)
1	Information security	MSCS631	48 Lectures
2	Cybersecurity Policies and Standards	MSCS 633	48 Lectures
3	Authentication technologies in Cybersecurity	MSCS 636	48 lectures

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	
2	

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
1	Security Threats and Vulnerabilities	Yes		X		2017	2021
2	Wireless and Mobile security	Yes		X		2017	2021
3	Information Security Management	Yes		X		2017	2020
4	Selected Topic in IS	Yes		X		2020	2021
5	Modeling and Simulation	Yes		X		2020	2021
6	Project Proposal	Yes		X		2016	2018
7	Project Implementation	Yes		X		2016	2018
8	Communications and Networks fundamentals	Yes		X		2018	2019
9	Cyber laws and policies	Yes		X		2018	2019
10	Computer data Security	Yes		X		2016	2018
11	Information security	Yes			X	2017	2019
12	Cybersecurity Policies and Standards	Yes			X	2018	2019
13	Authentication technologies in Cybersecurity	Yes			X	2018	2019

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	PhD	Mac resource management In VANET	La Manouba University, Tunisia	2012 - 2015
2	PhD	Routing control in WSN networks	El Manar University, Tunisia	2017 - 2021
3	Master	Handover Optimization within VANET Networks	La Manouba University, Tunisia	2014
4	Master	Geographical routing within VANET networks	La Manouba University, Tunisia	2013
5	Master	Mobility management in 5G network	La Manouba University, Tunisia	2013
6	Master	Anomaly detection of IoT botnets using machine learning auto-encoders	IAU university	2018 - 2019
7	Master	The Effects of Facial Expressions on Face Biometric System's Reliability	IAU university	2018 - 2020
8	Master	Continuous authentication architecture based on Blockchain for internet of things	IAU university	2019 - 2020

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
	Master	**A Robust Framework for Malware Anomaly Detection System Based on Deep Learning Techniques on the Internet of Things (IoT)**	**IAU university**	**2019 - 2021**

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Committee Membership

#	Administrative Position	Office	Date
1	Chair of Postgraduate and Scholarship Unit		2019/2020
2	Member of CIS Postgraduate unit		2019/2021
3	Member of CYS Curriculum Unit		2018/2022
4	Member of CIS Curriculum Unit		2019
5	Member of Scientific research Unit		2019
6	Member of CYS Program Quality Unit		2020-2023
8	Faculty Search Unit		2019/2020
9	CS MS Thesis evaluation		2019/2023
10	Senior Project Evaluation		2015/2023

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	**Cyber security**
2	Mobile Networks security
3	Information security
4	Ad Hoc Vehicular networks
5	Future networks and IoT
6	Cellular networks

Last Update

04/10/2022