



Curriculum Vitae

Dr. Musab Tahseen Salahaldeen Al-Kaltakchi

Mustansiriyah University - College of Engineering

Mobile: +9647717490051

E-mail: m.t.s.al_kaltakchi@uomustnsiriyah.edu.

PERSONAL SUMMARY:

- Musab T. S. Al-Kaltakchi was awarded a BSc degree in Electrical Engineering from Mustansiriyah University, Baghdad, Iraq in 1996.
- He was awarded an MSc degree in Electrical Engineering/Electronics and Communication Engineering from Mustansiriyah University, Baghdad, Iraq in 2004.
- He was awarded a Ph.D. degree in Electrical Engineering/Digital Signal Processing from the School of Electrical and Electronic Engineering at Newcastle University, UK in 2018.
- His research interests include speaker identification and verification, speech and audio signal processing, machine learning, artificial intelligence, pattern recognition, digital signal processing, and biometrics.
- He participated in more than 50 workshops in various subjects in the UK and also different 50 workshops in Iraq. He also participated in many international conferences in the UK, Spain, Greece, Cyprus, Turkey, India, and Iraq.
- He has many publications (journals conferences, and Book chapters).
- He is a member of the Institute of Electrical and Electronic Engineering (IEEE) and also in the Institute of Engineering and Technology (IET).

EDUCATION:

- **Ph.D. #1:** Ph.D. in Digital Signal Processing, Newcastle University, UK 2008.
Title of Ph.D. Thesis: Robust Text Independent Closed Set Speaker Identification Systems and Their Evaluation.
- **M.Sc. #2:** M.Sc. in Communications and Electronics, Mustansiriyah University, Baghdad, Iraq 2004.
Title of Master Thesis: Speech Compression using Linear prediction in Wavelet Domain.
- **B.Sc. #3:** B.Sc. in Electrical Engineering, Mustansiriyah University, Baghdad, Iraq 1996.

ACADEMIC HONORS AND AWARDS:

	Type of honor	Donor	Order number	Order Date	Notes
1.	Acknowledgments	Dean	3537	03/08/1999	College of Engineering/ Al-Mustansiriyah University
2.	Acknowledgments	University President	7372	16/09/1999	College of Engineering/ Al-Mustansiriyah University
3.	Acknowledgments	Dean	5033	01/09/2001	College of Engineering/ Al-Mustansiriyah University
4.	Acknowledgments	Dean	2260	19/10/2005	College of Engineering/ Al-Mustansiriyah University

5.	Acknowledgments	Dean	14/3/414	12/02/2007	College of Engineering/ Al-Mustansiriyah University
6.	Acknowledgments	Minister	772	19/05/2011	Ministry of Higher Education and Scientific Research
7.	Acknowledgments	University President	27701	30/10/2011	Al- Mustansiriyah University
8.	Acknowledgments	University President	20838	05/07/2012	Al- Mustansiriyah University
9.	Acknowledgments	Cultural Counselor		01/09/2014	Iraqi Cultural Attaché in London
10.	Acknowledgments	Dean	1/1555	26/02/2018	College of Engineering/ Al-Mustansiriyah University
11.	Acknowledgments	Cultural Counselor	1102-2017/819	08/03/2018	Iraqi Cultural Attaché in London
12.	Acknowledgments	University President	7625	14/3/2018	College of Engineering/ Al-Mustansiriyah University
13.	Acknowledgments	Dean	14/3/386	29/5/2018	College of Engineering/ Al-Mustansiriyah University
14.	Acknowledgments	Dean	1/4163	13/6/2018	College of Engineering/ Al-Mustansiriyah University
15.	Acknowledgments	Dean	14/1/8557	20/12/2018	College of Engineering/ Al-Mustansiriyah University
16.	Acknowledgments	University President	148	2/1/2019	College of Engineering/ Al-Mustansiriyah University
17.	Acknowledgments	Dean	14/3/2137	27/3/2019	College of Engineering/ Al-Mustansiriyah University
18.	Acknowledgments	University President	15172	29/5/2019	College of Engineering/ Al-Mustansiriyah University
19.	Acknowledgments	Dean	14/3/4092	16/6/2019	College of Engineering/ Al-Mustansiriyah University
20.	Acknowledgments	Dean	14/3/3968	10/6/2019	College of Engineering/ Al-Mustansiriyah University
21.	Acknowledgments	Minister	14607	3/7/2019	Ministry of Higher Education and Scientific Research
22.	Acknowledgments	University President	23858	3/9/2019	College of Engineering/ Al-Mustansiriyah University

23.	Acknowledgments	Dean	14/3/7153	5/11/2019	College of Engineering/ Al-Mustansiriyah University
24.	Acknowledgments	University President	32820	28/11/2019	College of Engineering/ Al-Mustansiriyah University
25.	Acknowledgments	Minister	208	6/5/2020	Ministry of Higher Education and Scientific Research
26.	Acknowledgments	University President	10039	15/7/2020	College of Engineering/ Mustansiriyah University
27.	Acknowledgments	Minister	532	11/8/2020	Ministry of Higher Education and Scientific Research
28.	Acknowledgments	University President	10039	15/7/2020	College of Engineering/ Mustansiriyah University
29.	Acknowledgments	Dean	14/3/3975	28/10/2020	College of Engineering/ Mustansiriyah University
30.	Acknowledgments	Dean	14/3/5130	17/12/2020	College of Engineering/ Mustansiriyah University
31.	Acknowledgments	Dean	14/3/819	9/2/2021	College of Engineering/ Mustansiriyah University
32.	Acknowledgments	Minister	14/1/943	15/2/2021	Ministry of Higher Education and Scientific Research
33.	Acknowledgments	Minister	432	1/3/2021	Ministry of Higher Education and Scientific Research
34.	Acknowledgments	Dean	14/3/2485	23/5/2021	College of Engineering/ Mustansiriyah University
35.	Acknowledgments	Minister	1354	16/8/2021	Ministry of Higher Education and Scientific Research
36.	Acknowledgments	Dean	14/3/5150	17/10/2021	College of Engineering/ Mustansiriyah University
37.	Acknowledgments	Dean	14/3/6220	2/12/2021	College of Engineering/ Mustansiriyah University
38.	Acknowledgments	Dean	14/3/1453	1/3/2022	College of Engineering/ Mustansiriyah University
39.	Acknowledgments	University President	186	10/3/2022	College of Engineering/ Mustansiriyah University
40.	Acknowledgments	Minister	817	30/6/2022	Ministry of Higher Education and Scientific Research

41.	Acknowledgments	Dean	14/3/4112	18/07/2022	College of Engineering/ Mustansiriyah University
42.	Acknowledgments	Dean	14/3/4449	3/8/2022	College of Engineering/ Mustansiriyah University
43.	Acknowledgments	Minister	2699	10/10/2022	Minister of Youth and Sports
44.	Acknowledgments	Minister	1134	25/10/2022	Ministry of Higher Education and Scientific Research
45.	Acknowledgments	Dean	14/3/6137	30/10/2022	College of Engineering/ Mustansiriyah University
46.	Acknowledgments	Dean	14/3/7637	27/12/2022	College of Engineering/ Mustansiriyah University
47.	Acknowledgments	Minister	1134	25/10/2022	Ministry of Higher Education and Scientific Research
48.	Acknowledgments	Minister	476	19/4/2023	Ministry of Higher Education and Scientific Research

ACADEMIC /TEACHING EXPERIENCE:

- #1: Digital Communication System 2021-2023.
- #2: Digital Signal Processing 2021-2022.
- #3: Information Theory and Coding 2019-2021
- #4: Secure Communication 2019-2021
- #5: Digital Communication System 2008-2013.
- #6: Electrical Machine 2004-2006
- #7: Data Encryption and Security in Computer, and Software Eng. Dep. Mustansiriyah University 2004-2005
- #8: Tutorial Power System Analysis 1999-2001
- #9: Communication, Electronics, Measurements, Control, and Machine Laboratories through different periods 1997-2023.

COURSES TAUGHT:

Undergraduate	Graduate
1- Information Theory and Coding 2019-2021 2- Digital Signal Processing 2021-2022. 3- Secure Communication 2019-2021.	

PROFESSIONAL AFFILIATIONS:

- Chairman of the Archiving Committee
- Examination Committee 2018-2019
- Master's theses production committees
- Absences Committee
- Chairman of the Scientific Outcomes Committee
- Improvement Plan Committee
- Self-evaluation Committee 2021-2023
- Scientific Plan Committee 2021-2023
- Chairman of the Information Committee

PUBLICATIONS:

• Selected Journal Papers:

- Musab T. S. Al-Kaltakchi, Ahmad Saeed Mohammad, Wai Lok Woo, "Ensemble System of Deep Neural Networks for Single-Channel Audio Separation," *Journal of Information-MDPI*, Vol. 14, no 7, pp. 352, 2023.
- Ahmad Saeed Mohammad, Musab T. S. Al-Kaltakchi, Jabir Alshehabi Al-Ani, Jonathon A. Chambers, "Comprehensive Evaluations of Student Performance Estimation via Machine Learning," *Journal of Mathematics-MDPI*, Vol. 11, Issue 14, pp. 3153, 2023.
- Musab T. S. Al-Kaltakchi, Saadoon Awad Mohammed Al-Sumaidae, Raid Rafi Omar Al-Nima, "Classifications of signatures by radial basis neural network," *Bulletin of Electrical Engineering and Informatics*. vol. 11, no 6, pp. 3294-3300, 2022.
- Musab T. S. Al-Kaltakchi, Mohammed A. M. Abdullah, Wai Lok Woo, Satnam Singh Dlay, "Combined i-Vector and Extreme Learning Machine Approach for Robust Speaker Identification and Evaluation with SITW 2016, NIST 2008, TIMIT Databases," *Circuits, Systems, and Signal Processing*. vol. 40, no 10, pp. 4903-4923, 2021.
- Musab T. S. Al-Kaltakchi, Raid Rafi Omar Al-Nima, Mohammed A. M. Abdullah, "Comparisons of extreme learning machine and backpropagation-based i-vector approach for speaker identification," *Turkish Journal of Electrical Engineering & Computer Sciences*, vol. 28, no 3, pp. 1236-1245, 2020.
- Musab T. S. Al-Kaltakchi, Haithem Abd Al-Raheem Taha, Mohanad Abd Shehab, Mohammed A. M. Abdullah, "Comparison of feature extraction and normalization methods for speaker recognition using Grid-Audiovisual database," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 18, no 2, pp. 782-789, 2020.
- Musab T. S. Al-Kaltakchi, Raid Rafi Omar Al-Nima, Mohammed A. M. Abdullah, Hikmat N. Abdullah, "Thorough Evaluation of TIMIT Database Speaker Identification Performance under noise with and without the G.712 Type Handset," *International Journal of Speech Technology, Springer*, vol. 22, no 3, pp. 851-863, 2019.
- R.R.O. Al-Nima, Musab T.S. Al-Kaltakchi, S.A. M. Al-Sumaidae, S. S. Dlay, W. L. Woo, Tingting Han, J. A. Chambers, "Personal verification based on multi-spectral finger texture lighting images," *IET Signal Processing*, vol. 12, no 9, pp. 1154-1164, 2018.

- Musab T. S. Al-Kaltakchi, W. L. Woo, S. S. Dlay, J. A. Chambers, "Evaluation of a speaker identification system with and without fusion using three databases in the presence of noise and handset effects," *EURASIP Journal on Advances in Signal Processing, Springer*, vol. 80, no 1, pp. 1-17, 2017.
- R.R.O. Al-Nima, Mohammed A. M. Abdullah, Musab T.S. Al-Kaltakchi, S. S. Dlay, W. L. Woo, J. A. Chambers, "Finger texture biometric verification exploiting multi-scale sobel angles local binary pattern features and score-based fusion," *Digital Signal Processing, Elsevier*, vol. 70, no 9, pp. 178-189, 2017.
- Musab T. S. Al-Kaltakchi, Raid Rafi Omar Al-Nima, Hikmat N. Abdullah, Tingting Han, J. A. Chambers, "Finger Texture Verification Systems Based on Multiple Spectrum Lighting Sensors with Four Fusion Levels," *Iraqi Journal of Information and Communications Technology*, vol. 1, no 3, pp. 1-16, 2018.
- Hikmat N. Abdullah, Nuha Sh. Baker, Musab T. S. Al-Kaltakchi, "Proposed Two-Stage Detection Rules for Improving Throughput in Cognitive Radio Networks," *Iraqi Journal for Computers, Communications, Control, and Systems Engineering (IJCCCE)*, vol. 19, no 4, pp. 1-11, 2019.
- Mohannad Abid Shehab, Abd Al-Raheem Taha, Musab T. S. Al-Kaltakchi, "Image Compression using Haar and Modified Haar Wavelet Transform," *Tikrit Journal of Eng. Sciences*, vol. 18, no 2, pp. 88-101, 2011.
- Musab T. S. Al-Kaltakchi, Maher K. Al-Azawi, "Speech Compression using Residual Excited Linear Prediction with Wavelet Transform," *Special Edition of Engineering and Development Journal, Comprehensive Scientific Engineering Conference*, vol. 12, no 3, pp. 248-257, 2008.

• Selected Conference Papers

- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Study of fusion strategies and exploiting the combination of MFCC and PNCC features for robust biometric speaker identification," 4th IEEE International Conference on Biometrics and Forensics (IWBF)-Limassol, Cyprus, IEEE, 2016.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "STUDY OF STATISTICAL ROBUST CLOSED SET SPEAKER IDENTIFICATION WITH FEATURE AND SCORE-BASED FUSION," 2016 IEEE Workshop on Statistical Signal Processing-Palma de Mallorca, Spain, IEEE, 2016.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Speaker identification evaluation based on the speech biometric and i-vector model using the TIMIT and NTIMIT databases," 5th IEEE International Workshop on Biometrics and Forensics (IWBF)-Coventry, UK, IEEE, 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Comparison of I-vector and GMM-UBM approaches to speaker identification with TIMIT and NIST 2008 databases in challenging environments," 25th IEEE-European Signal Processing Conference (EUSIPCO), 2017-Kos, Greece, IEEE, 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Multi-Dimensional I-Vector Closed Set Speaker Identification based on an Extreme Learning Machine with and without Fusion Technologies," IEEE-Intelligent Systems Conference 2017 (IntelliSys2017) London, UK, IEEE, September 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Speaker Verification Using Cosine Distance Scoring with I-vector Approach," 2020 IEEE International Conference on Computer Science and Software Engineering (CSASE)-Duhok, Iraq, IEEE, 2020.
- Mohanad Abd Shehab, Musab T. S. Al-Kaltakchi, "Indoor Human Tracking System Based on Simple Electronic Mobile Network," Proceedings of International Conference on Studies in Education and Social Sciences, ICSES Conference, Turkey, 2022.
- Raid Rafi Omar Al-Nima, Musab T. S. Al-Kaltakchi, Tingting Han, Wai L. Woo, "Road Tracking Enhancements for Self-Driving Cars Applications," AIP Conference Proceedings (International Conference on Innovations in Science, Hybrid Materials and Vibration Analysis (IC-ISHVA-2022)), AIP, India, 2023.

- **Theses and Book Chapter**

- **MSc. and PhD Theses:**

- Musab T. S. Al-Kaltakchi, "Speech Compression using Linear Prediction Coding in Wavelet Domain, " MSc. Thesis: Department of Electrical Engineering, College of Engineering, Mustansiriyah University, Baghdad, Iraq, 2004.
- Musab T. S. Al-Kaltakchi, "Robust Text Independent Closed Set Speaker Identification Systems and Their Evaluation, " PhD. Thesis: School of Electrical and Electronic Engineering, Newcastle University, UK, 2018.

- **Book Chapter:**

- Musab T. S. Al-Kaltakchi, Mohammed A. M. Abdullah, Wai L. Woo, Satnam S. Dlay, "Closed-set speaker identification system based on MFCC and PNCC features combination with different fusion strategies, " in Applied Speech Processing: Algorithms and Case Studies, Elsevier,2021.

PROFESSIONAL DEVELOPMENT

- **Certifications.**

1. Certificate of Participation as Author in Intelligent System Conference 2017, London, UK.
2. Certificate of Attendance "2016 IEEE Workshop on Statistical Signal Processing", Palma de Mallorca, Spain.
3. Certificate of Attendance "5th IWBF 2017 Biometrics and Forensics", Coventry, UK.
4. Certificate of Participation "2016 IEEE Workshop on Statistical Signal Processing", Palma de Mallorca, Spain.
5. Certificate of Attendance "4th IWBF 2016 Biometrics and Forensics", Limassol, Cyprus.
6. Certificate of Attendance "Introduction to Learning and Teaching in Higher Education", October 2014, organized by the Staff Development Unit-Newcastle University, UK.
7. Certificate of Attendance "Introduction to Matlab", held at school of Electrical & Electronic Engineering, Newcastle University on 18 December 2013.
8. Certificate of Attendance "Advanced Matlab", held at school of Electrical & Electronic Engineering, Newcastle University on 19 December 2013.
9. Certificate of successfully completed the Industrial Statistics Research Unit (ISRU) course in " Design of Experiments", Newcastle University, March 2015.
10. Certificate of successfully completed the Industrial Statistics Research Unit (ISRU) course in " Practical Statistics 1", Newcastle University, January-2015.
11. Certificate of successfully completed the Industrial Statistics Research Unit (ISRU) course in " Practical Statistics 2", Newcastle University, February-2015.
12. Certificate of successfully completed the Industrial Statistics Research Unit (ISRU) course in " Practical Statistics 3", Newcastle University, February-2015.
13. Certificate of passing "the Pre-Sessional English Programme " , (27 June 2013- 6 September 2013) INTO- Newcastle University.
14. Certificate of attendance "A course in Emergency Life Support " , Newcastle, UK, 2015.
15. Certificate of Completion "How to review a manuscript ", Elsevier Publishing Campus, July 2016.
16. Certificate of attendance "How to become a Reviewer and what do Editors expect? ", 2016.
17. Certificate of " Internet and Computing Core Certification (IC³)", 8 January 2012.

18. Certificate of " International English Language Testing System ", British Council, 2012.
19. Certificate of " TOEFL. ITP ".
20. Certify as a Member in Al-Kindi Society for Engineers 2015.
21. Certificates for Reviewing papers in the following journals:
 - **Electronics letters. (1)**
 - **Expert systems with applications. (3)**
 - **IEEE transactions on consumer electronics. (3)**
 - **IET signal processing. (2)**
 - **International journal of speech technology. (1)**
 - **Journal of forensic sciences. (1)**
 - **Signal, image and video processing. (1)**
 - **The Australian journal of forensic sciences (1)**
 - **Wireless communications and mobile computing (1)**
 - **Biomedical signal processing and control. (1)**
 - **Hindawi portfolio of journals. (1)**
22. Certificates for Reviewing papers in the following conferences:
 - **CSCTIT 2022/The 5th COLLEGE OF SCIENCE INTERNATIONAL CONFERENCE ON RECENT TRENDS / IN INFORMATION TECHNOLOGY / Held on 27th- 28th November at Baghdad – Iraq (two papers)**
 - **College of Science-Mustansiriyah University.**
 - **6th Applied Engineering and 3rd Sustainable Engineering Conference/ held by Mustansiriyah University- College of Engineering 25-26 June 2023.**
23. Certificates for Attendance Conference.
 - **6th Applied Engineering and 3rd Sustainable Engineering Conference/ held by Mustansiriyah University- College of Engineering 25-26 June 2023.**
- 24- Certificates for presentation and attended International Conference:
 - presented the "**INDOOR HUMAN TRACKING SYSTEM BASED ON SIMPLE ELECTRONIC MOBILE NETWORK**" as an oral presentation and attended International Conference on Studies in Education and Social Sciences (ICSSES) held on November 10-13, 2022 in Antalya/Turkey.
 - presented the "**Road Tracking Enhancements for Self-Driving Cars Applications**" In the International Conference on Innovations in Science, Hybrid Materials and Vibration Analysis IC-ISHVA 2022, held on 16-17 July 2022.
- 25- Certificates for Publishing the Following Papers:
 - Certificate of publication for the article titled: **Classifications of Signatures by Radial Basis Neural Network** Published in: **Bulletin of Electrical Engineering and Informatics**, Vol. 11, No. 6, December 2022.
 - Certificate of publication for the article titled: **Ensemble System of Deep Neural Networks for Single-Channel Audio Separation** Published in: Information 2023, Volume 14, Issue 7, 352. Cite Score 5.8, Impact Factor 3.1.
 - Certificate of publication for the article titled: **Comprehensive Evaluations of Student Performance Estimation via Machine Learning** Published in: Mathematics 2023, Volume 11, Issue 14, 3153, Cite Score 3.5, Impact factor 2.4.

● Conferences.

- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Study of fusion strategies and exploiting the combination of MFCC and PNCC features for robust biometric speaker identification," 4th IEEE International Conference on Biometrics and Forensics (IWBF)-Limassol, Cyprus, IEEE, 2016.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "STUDY OF STATISTICAL ROBUST CLOSED SET SPEAKER IDENTIFICATION WITH FEATURE AND SCORE-BASED FUSION," 2016 IEEE Workshop on Statistical Signal Processing-Palma de Mallorca, Spain, IEEE, 2016.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Speaker identification evaluation based on the speech biometric and i-vector model using the TIMIT and NTIMIT databases," 5th IEEE International Workshop on Biometrics and Forensics (IWBF)-Coventry, UK, IEEE, 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Comparison of I-vector and GMM-UBM approaches to speaker identification with TIMIT and NIST 2008 databases in challenging environments," 25th IEEE-European Signal Processing Conference (EUSIPCO), 2017-Kos, Greece, IEEE, 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Multi-Dimensional I-Vector Closed Set Speaker Identification based on an Extreme Learning Machine with and without Fusion Technologies," IEEE-Intelligent Systems Conference 2017 (IntelliSys2017) London, UK, IEEE, September 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Speaker Verification Using Cosine Distance Scoring with I-vector Approach," 2020 IEEE International Conference on Computer Science and Software Engineering (CSASE)-Duhok, Iraq, IEEE, 2020.
- Mohanad Abd Shehab, Musab T. S. Al-Kaltakchi, "Indoor Human Tracking System Based on Simple Electronic Mobile Network," Proceedings of International Conference on Studies in Education and Social Sciences, ICSES Conference, Turkey, 2022.
- Raid Rafi Omar Al-Nima, Musab T. S. Al-Kaltakchi, Tingting Han, Wai L. Woo, "Road Tracking Enhancements for Self-Driving Cars Applications," AIP Conference Proceedings (International Conference on Innovations in Science, Hybrid Materials and Vibration Analysis (IC-ISHVA-2022)), AIP, India, 2023.

● Workshops.

- I have attended about 50 workshops at Mustansiriyah University/ Iraq in different subjects throughout the period (2018-2023) and I got some certificates from some of these workshops.
- I have attended about 50 workshops at Newcastle University/ UK throughout my Ph.D. study period (2013-2017) and I got some certificates from some of these workshops, the workshops as shown below:

Postgraduate Researcher Development Programme



Personal Details:

Name:	Musab Tahseen Salahaldeen Al_kaltakchi	
Email:	m.t.s.al-kaltakchi@newcastle.ac.uk	
School:	D-SEEE	
Faculty:	sage	
Supervisor:		
PGRDP Credit Total:	2014/15	147
	2015/16	27
	2013/14	161

Forthcoming Bookings:

Module Title	Workshop	Start Date	Start Time	Campus module	Venue			
SAgE PGRDP	D2: Presentation Skills (One to Ones)	16/06/2016	15.45	False	G20, Ground Floor, Devonshire Building	View	remove	

Previously attended Workshops:

Module Title	Workshop	Date	Time	PGRDP Credits	Venue
SAgE PGRDP	School Activities 2013-14: In-sessional English	01/10/2013		5	
SAgE PGRDP	School Activities 2013-14: School Conference Poster Presentation	01/10/2013		5	
SAgE PGRDP	Induction for 1st Year PGRs	07/10/2013	14.20	5	Room 2.21 and 2.22 Research Beehive, Old Library Building
SAgE PGRDP	D: Communication and dissemination - Features of Academic Writing	09/10/2013	10.00	3	Room G21/22, ground floor, Devonshire Building
SAgE PGRDP	D: Communication and dissemination - Writing a Literature Review	22/10/2013	10.00	3	Room G21/22, ground floor, Devonshire Building

SAgE PGRDP	B: Personal qualities - Effective and Confident Verbal Communications	29/10/2013	09.30	10	Room G21/22, ground floor, Devonshire Building
SAgE PGRDP	A: Knowledge Base (IT) - Document Management - Content and Layout	30/10/2013	13.00	4	Chart PC Cluster, third floor, Bedson Teaching Centre
SAgE PGRDP	C: Research management - Managing Your PhD	31/10/2013	09.00	10	Room G21/22, ground floor, Devonshire Building
SAgE PGRDP	SCHOOL VALIDATED PGRDP CREDITS	31/10/2013		5	2013-2014 (5)
SAgE PGRDP	A: Knowledge Base (IT) - Document Management - Images and Tables	01/11/2013	09.00	4	PC Cluster, Room 2.40, Bedson Teaching Centre
SAgE PGRDP	A: Knowledge Base (IT) - Creating Academic Posters	04/11/2013	10.00	4	PC Cluster, Room 2.40, Bedson Teaching Centre
SAgE PGRDP	D: Communication and Dissemination - Using Sources in Your Work Without Plagiarism	05/11/2013	10.00	3	Room G21/22, ground floor, Devonshire Building
SAgE PGRDP	B: Professional and Career Development - How to write a CV for Academia	06/11/2013	13.15	2	room 1.20, King's Gate
SAgE PGRDP	C: Research Management - ePortfolio	06/11/2013	14.00	2	Chart Cluster, Third Floor, Bedson Teaching Centre
SAgE PGRDP	A: Knowledge Base (IT) - Advanced Document Management - Using Word and Endnote	08/11/2013	09.00	5	Chart PC Cluster, Bedson Teaching Centre
SAgE PGRDP	A: Knowledge Base (IT) - Data Handling and Spreadsheet Skills	08/11/2013	14.00	4	PC Cluster, Room 2.40, Bedson Teaching Centre
SAgE PGRDP	B: Personal Qualities - Personal Development Planning	14/11/2013	10.00	3	G21/22, Ground Floor, Devonshire Building
SAgE PGRDP	A: Knowledge Base (IT) - WebSpace - Webpage Design using HTML	15/11/2013	10.00	10	Chart PC Cluster, Bedson Teaching Centre
SAgE PGRDP	D: Communication and dissemination - Scientific Writing for Publication	26/11/2013	10.00	3	Room G21/22, ground floor, Devonshire Building
SAgE PGRDP	A1: Knowledge Base - Matlab 1 (Introduction)	18/12/2013	08.30	10	School of Electrical and Electronic Engineering, Computer Lab, 1st floor, Merz Court
SAgE PGRDP	A1: Knowledge Base - Matlab 2 (Advanced)	19/12/2013	08.30	10	School of Electrical and Electronic Engineering, Computer Lab, 1st floor, Merz Court
SAgE PGRDP	D: Communication and dissemination - Critical Reading and Writing	28/01/2014	10.00	3	Room G21/22, ground floor, Devonshire Building
SAgE PGRDP	A: Cognitive abilities - Practical Statistics I	07/04/2014	09.30	15	PC Cluster, room 2.40, Bedson Teaching Centre
SAgE PGRDP	A: Cognitive abilities - Practical Statistics II	23/04/2014	09.30	15	PC Cluster, room 2.40, Bedson Teaching Centre
SAgE PGRDP	B: Personal qualities - E-Portfolio and Personal Development Planning	07/05/2014	09.30	4	Nereid Cluster, room 472, Ridley Building
SAgE PGRDP	A: Knowledge Base - LaTeX	09/06/2014	10.00	10	Chart PC Cluster, third floor, Bedson Teaching Centre
SAgE PGRDP	A: Knowledge Base (IT) - Presentation Skills using PowerPoint	16/06/2014	14.00	4	Chart PC Cluster, third floor, Bedson Teaching Centre
SAgE PGRDP	School Activities 2014-15: In-sessional English	01/10/2014		5	
SAgE PGRDP	School Activities 2014-15: School Conference Oral Presentation	01/10/2014		5	
SAgE PGRDP	School Activities 2014-15: Teaching/ Tutorial/ Demonstrating - 6 hours minimum	01/10/2014		5	
SAgE PGRDP	Induction for Continuing PGRs	06/10/2014	13.00	3	Dental Lecture Theatre C, ground floor, Dental School

SDU specific	Introduction to Learning and Teaching in Higher Education - demonstrating	07/10/2014	10.30	15	Howden Room, KGVI
SAgE PGRDP	A1: Advanced Document Management - using Word and EndNote	01/12/2014	13.00	5	Nereid PC cluster, fourth floor, Ridley Building 2
SAgE PGRDP	A2: Practical Statistics I	06/01/2015	09.30	15	2.40 PC, second floor, Barbara Strang Teaching Centre
SAgE PGRDP	A2: Practical Statistics II	03/02/2015	09.30	15	2.40 PC, second floor, Barbara Strang Teaching Centre
SAgE PGRDP	A2: Practical Statistics III	25/02/2015	09.30	10	Chart Cluster, 3.30, third floor, Barbara Strang Teaching Centre
SAgE PGRDP	A2: Design of Experiment Statistics	10/03/2015	09.30	15	Chart Cluster, 3.30, third floor, Barbara Strang Teaching Centre
SAgE PGRDP	A2: Introduction to R	16/03/2015	09.00	10	Room 2.96 (Cluster), second floor, Armstrong Building
SAgE PGRDP	A2: Introduction to Statistical Modelling in R	18/03/2015	09.00	10	Room 2.96 (Cluster), second floor, Armstrong Building
SAgE PGRDP	A2: Programming with R	19/03/2015	09.00	10	Room 2.96 (Cluster), second floor, Armstrong Building
SAgE PGRDP	C2: Writing Your Thesis and Preparing for Your Viva	20/03/2015	09.30	10	Room 2.21 Research Beehive, Old Library Building
SAgE PGRDP	Additional Credit Award	22/04/2015		3	Musab Al-Kaltakchi attendance at First Aid Course on 22/04/2015
SAgE PGRDP	A1: LaTeX	19/05/2015	10.00	10	Nereid PC cluster, fourth floor, Ridley Building 2
SAgE PGRDP	A1: Library - Publishing with the IEEE	09/06/2015	10.00	1	Robinson Library, Newcastle University
SAgE PGRDP	A1: IEEE Xplore	08/12/2015	13.00	5	152, Robinson Library
SAgE PGRDP	A1: Preparing Your Thesis (Managing Long Documents)	10/02/2016	09.00	8	2.40 PC, second floor, Barbara Strang Teaching Centre
SAgE PGRDP	D2: Writing up your thesis	11/04/2016	14.00	4	G21/22, Ground Floor, Devonshire Building
SAgE PGRDP	C2: Writing Your Thesis and Preparing for Your Viva	15/04/2016	09.30	10	G21/22, Ground Floor, Devonshire Building

Signature Head of Department

Signature Vice Dean


 الدكتور محمد يوسف
 عميد قسم الهندسة الكهربائية
 تمارك القصبان
 أ.م.د. محمد ياسين يوسف
 رئيس قسم الهندسة الكهربائية
 ٢٠٢

السيرة الذاتية

م.د مصعب تحسين صلاح الدين

المستنصرية – كلية الهندسة

Mobile: +9647717490051

E-mail: m.t.s.al_kaltakchi@uomustnsiriyah.edu.



ملخص تعريفي:

- حصل مصعب تحسين صلاح الدين القاطنجي على درجة البكالوريوس في الهندسة الكهربائية من الجامعة المستنصرية، بغداد، العراق عام 1996.
- حصل على درجة الماجستير في الهندسة الكهربائية/هندسة الإلكترونيات والاتصالات من الجامعة المستنصرية، بغداد، العراق 2004.
- حصل على درجة الدكتوراه. شهادة في الهندسة الكهربائية / معالجة الإشارات الرقمية من كلية الهندسة الكهربائية الهندسة الإلكترونية في جامعة نيوكاسل بالمملكة المتحدة عام 2018.
- تشمل اهتماماته البحثية التعرف على المتحدث والتحقق منه، ومعالجة الإشارات الصوتية والكلام، والتعلم الآلي، والذكاء الاصطناعي، والتعرف على الأنماط، ومعالجة الإشارات الرقمية، والقياسات الحيوية.
- شارك في أكثر من 50 ورشة عمل في مواضيع مختلفة في المملكة المتحدة وأيضاً 50 ورشة عمل مختلفة في العراق كما شارك في العديد من المؤتمرات الدولية في المملكة المتحدة وإسبانيا واليونان وقبرص وتركيا والهند والعراق.
- له العديد من المؤلفات أكثر من 30 مؤلفاً من مجلات ومؤتمرات، وفصول الكتب .
- عضو في معهد الهندسة الكهربائية والإلكترونية IEEE وأيضاً في معهد الهندسة والتكنولوجيا IET

الشهادات الدراسية:

- دكتوراه: دكتوراه في معالجة الإشارات الرقمية، جامعة نيوكاسل، المملكة المتحدة 2008.
- عنوان الدكتوراه الأطروحة: أنظمة تحديد هوية المتحدثين المستقلة ذات النص المقاوم للضوضاء وتقييمها.
- ماجستير: ماجستير في الاتصالات والإلكترونيات، الجامعة المستنصرية، بغداد، العراق 2004.
- عنوان رسالة الماجستير: ضغط الكلام باستخدام التنبؤ الخطي في مجال الموجات.
- بكالوريوس: بكالوريوس. بكالوريوس في الهندسة الكهربائية الجامعة المستنصرية بغداد العراق 1996.

الجوائز والتكريم الأكاديمي

ت	نوع التكريم	الجهة المانحة	رقم الامر	تاريخ الامر
1.	شكر وتقدير	عميد كلية الهندسة الجامعة المستنصرية	3537	03/08/1999
2.	شكر وتقدير	رئيس الجامعة المستنصرية	7372	16/09/1999
3.	شكر وتقدير	عميد كلية الهندسة الجامعة المستنصرية	5033	01/09/2001
4.	شكر وتقدير	عميد كلية الهندسة الجامعة المستنصرية	2260	19/10/2005
5.	شكر وتقدير	عميد كلية الهندسة الجامعة المستنصرية	14/3/414	12/02/2007
6.	شكر وتقدير	وزير التعليم العالي والبحث العلمي	772	19/05/2011
7.	مكافئة مالية	رئيس الجامعة المستنصرية	27701	30/10/2011
8.	شكر وتقدير	رئيس الجامعة المستنصرية	20838	05/07/2012
9.	شكر وتقدير	الملحقية الثقافية في بريطانيا		01/09/2014

26/02/2018	1/1555	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	10.
08/03/2018	1102- 2017/819	الملحقية الثقافية في بريطاني	شكر وتقدير	11.
14/3/2018	7625	رئيس الجامعة المستنصرية	شكر وتقدير	12.
29/5/2018	14/3/386	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	13.
13/6/2018	1/4163	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	14.
20/12/2018	14/1/8557	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	15.
2/1/2019	148	رئيس الجامعة المستنصرية	شكر وتقدير	16.
27/3/2019	14/3/2137	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	17.
29/5/2019	15172	رئيس الجامعة المستنصرية	شكر وتقدير	18.
16/6/2019	14/3/4092	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	19.
10/6/2019	14/3/3968	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	20.
3/7/2019	14607	وزير التعليم العالي والبحث العلمي	شكر وتقدير	21.
3/9/2019	23858	رئيس الجامعة المستنصرية	شكر وتقدير	22.
5/11/2019	14/3/7153	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	23.
28/11/2019	32820	رئيس الجامعة المستنصرية	شكر وتقدير	24.
6/5/2020	208	وزير التعليم العالي والبحث العلمي	شكر وتقدير	25.
15/7/2020	10039	رئيس الجامعة المستنصرية	شكر وتقدير	26.
11/8/2020	532	وزير التعليم العالي والبحث العلمي	شكر وتقدير	27.
15/7/2020	10039	رئيس الجامعة المستنصرية	شكر وتقدير	28.
28/10/2020	14/3/3975	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	29.
17/12/2020	14/3/5130	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	30.
9/2/2021	14/3/819	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	31.
15/2/2021	14/1/943	وزير التعليم العالي والبحث العلمي	شكر وتقدير	32.
1/3/2021	432	وزير التعليم العالي والبحث العلمي	شكر وتقدير	33.
23/5/2021	14/3/2485	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	34.
16/8/2021	1354	وزير التعليم العالي والبحث العلمي	شكر وتقدير	35.
17/10/2021	14/3/5150	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	36.
2/12/2021	14/3/6220	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	37.
1/3/2022	14/3/1453	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	38.

10/3/2022	186	رئيس الجامعة المستنصرية	شكر وتقدير	39.
30/6/2022	817	وزير التعليم العالي والبحث العلمي	شكر وتقدير	40.
18/07/2022	14/3/4112	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	41.
3/8/2022	14/3/4449	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	42.
10/10/2022	2699	وزير الشباب والرياضة	شكر وتقدير	43.
25/10/2022	1134	وزير التعليم العالي والبحث العلمي	شكر وتقدير	44.
30/10/2022	14/3/6137	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	45.
27/12/2022	14/3/7637	عميد كلية الهندسة الجامعة المستنصرية	شكر وتقدير	46.
25/10/2022	1134	وزير التعليم العالي والبحث العلمي	شكر وتقدير	47.
19/4/2023	476	وزير التعليم العالي والبحث العلمي	شكر وتقدير	48.

الخبرة الأكاديمية والتدريس:

- 1# نظام الاتصالات الرقمية 2021-2023.
- 2# معالجة الإشارات الرقمية 2021-2022.
- 3# نظرية المعلومات والترميز 2019-2021
- 4# الاتصال الآمن 2019-2021
- 5# نظام الاتصالات الرقمية 2008-2013.
- 6# المكانن الكهربائية 2004-2006
- 7# تشفير البيانات وأمنها في قسم الحاسبات وهندسة البرمجيات الجامعة المستنصرية 2004-2005
- 8# تحليل أنظمة القدرة 1999-2001
- 9# مختبرات الاتصالات والإلكترونيات والقياسات والسيطرة والمكانن الكهربائية خلال فترات مختلفة 1997-2023.

المقررات الدراسية التي تم تدريسها:

الدراسات الأولية	الدراسات العليا
1- نظرية المعلومات والترميز 2019-2021	
2- معالجة الإشارات الرقمية 2021-2022	
3- الاتصال الآمن 2019-2021	

الانتساب المهني او الجمعيات:

- رئيس لجنة الأرشفة
- عضولجنة امتحانية 2018-2019
- لجان استتال رسائل الماجستير
- لجنة الغيابات
- رئيس لجنة النتائج العلمية
- لجنة خطة التحسين
- لجنة التقييم الذاتي 2021-2023
- لجنة الخطة العلمية 2021-2023
- رئيس لجنة الإعلام

● بحوث علمية:
• المجلات المنشورة

- Musab T. S. Al-Kaltakchi, Ahmad Saeed Mohammad, Wai Lok Woo, "Ensemble System of Deep Neural Networks for Single-Channel Audio Separation," *Journal of Information-MDPI*, Vol. 14, no 7, pp. 352, 2023.
- Ahmad Saeed Mohammad, Musab T. S. Al-Kaltakchi, Jabir Alshehabi Al-Ani, Jonathon A. Chambers, "Comprehensive Evaluations of Student Performance Estimation via Machine Learning," *Journal of Mathematics-MDPI*, Vol. 11, Issue 14, pp. 3153, 2023.
- Musab T. S. Al-Kaltakchi, Saadoon Awad Mohammed Al-Sumaidae, Raid Rafi Omar Al-Nima, "Classifications of signatures by radial basis neural network," *Bulletin of Electrical Engineering and Informatics*. vol. 11, no 6, pp. 3294-3300, 2022.
- Musab T. S. Al-Kaltakchi, Mohammed A. M. Abdullah, Wai Lok Woo, Satnam Singh Dlay, "Combined i-Vector and Extreme Learning Machine Approach for Robust Speaker Identification and Evaluation with SITW 2016, NIST 2008, TIMIT Databases," *Circuits, Systems, and Signal Processing*. vol. 40, no 10, pp. 4903-4923, 2021.
- Musab T. S. Al-Kaltakchi, Raid Rafi Omar Al-Nima, Mohammed A. M. Abdullah, "Comparisons of extreme learning machine and backpropagation-based i-vector approach for speaker identification," *Turkish Journal of Electrical Engineering & Computer Sciences*, vol. 28, no 3, pp. 1236-1245, 2020.
- Musab T. S. Al-Kaltakchi, Haithem Abd Al-Raheem Taha, Mohanad Abd Shehab, Mohammed A. M. Abdullah, "Comparison of feature extraction and normalization methods for speaker recognition using Grid-Audiovisual database," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 18, no 2, pp. 782-789, 2020.
- Musab T. S. Al-Kaltakchi, Raid Rafi Omar Al-Nima, Mohammed A. M. Abdullah, Hikmat N. Abdullah, "Thorough Evaluation of TIMIT Database Speaker Identification Performance under noise with and without the G.712 Type Handset," *International Journal of Speech Technology, Springer*, vol. 22, no 3, pp. 851-863, 2019.
- R.R.O. Al-Nima, Musab T.S. Al-Kaltakchi, S.A. M. Al-Sumaidae, S. S. Dlay, W. L. Woo, Tingting Han, J. A. Chambers, "Personal verification based on multi-spectral finger texture lighting images," *IET Signal Processing*, vol. 12, no 9, pp. 1154-1164, 2018.
- Musab T. S. Al-Kaltakchi, W. L. Woo, S. S. Dlay, J. A. Chambers, "Evaluation of a speaker identification system with and without fusion using three databases in the presence of noise and handset effects," *EURASIP Journal on Advances in Signal Processing, Springer*, vol. 80, no 1, pp. 1-17, 2017.
- R.R.O. Al-Nima, Mohammed A. M. Abdullah, Musab T.S. Al-Kaltakchi, S. S. Dlay, W. L. Woo, J. A. Chambers, "Finger texture biometric verification exploiting multi-scale sobel angles local binary pattern features and score-based fusion," *Digital Signal Processing, Elsevier*, vol. 70, no 9, pp. 178-189, 2017.
- Musab T. S. Al-Kaltakchi, Raid Rafi Omar Al-Nima, Hikmat N. Abdullah, Tingting Han, J. A. Chambers, "Finger Texture Verification Systems Based on Multiple Spectrum Lighting Sensors with Four Fusion Levels," *Iraqi Journal of Information and Communications Technology*, vol. 1, no 3, pp. 1-16, 2018.

- Hikmat N. Abdullah, Nuha Sh. Baker, Musab T. S. Al-Kaltakchi, "Proposed Two-Stage Detection Rules for Improving Throughput in Cognitive Radio Networks," *Iraqi Journal for Computers, Communications, Control, and Systems Engineering (IJCCCE)*, vol. 19, no 4, pp. 1-11, 2019.
- Mohannad Abid Shehab, Abd Al-Raheem Taha, Musab T. S. Al-Kaltakchi, "Image Compression using Haar and Modified Haar Wavelet Transform," *Tikrit Journal of Eng. Sciences*, vol. 18, no 2, pp. 88-101, 2011.
- Musab T. S. Al-Kaltakchi, Maher K. Al-Azawi, "Speech Compression using Residual Excited Linear Prediction with Wavelet Transform," *Special Edition of Engineering and Development Journal, Comprehensive Scientific Engineering Conference*, vol. 12, no 3, pp. 248-257, 2008.

• المؤتمرات المنشورة

- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Study of fusion strategies and exploiting the combination of MFCC and PNCC features for robust biometric speaker identification," 4th IEEE International Conference on Biometrics and Forensics (IWBF)-Limassol, Cyprus, IEEE, 2016.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "STUDY OF STATISTICAL ROBUST CLOSED SET SPEAKER IDENTIFICATION WITH FEATURE AND SCORE-BASED FUSION," 2016 IEEE Workshop on Statistical Signal Processing-Palma de Mallorca, Spain, IEEE, 2016.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Speaker identification evaluation based on the speech biometric and i-vector model using the TIMIT and NTIMIT databases," 5th IEEE International Workshop on Biometrics and Forensics (IWBF)-Coventry, UK, IEEE, 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Comparison of I-vector and GMM-UBM approaches to speaker identification with TIMIT and NIST 2008 databases in challenging environments," 25th IEEE-European Signal Processing Conference (EUSIPCO), 2017-Kos, Greece, IEEE, 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Multi-Dimensional I-Vector Closed Set Speaker Identification based on an Extreme Learning Machine with and without Fusion Technologies," IEEE-Intelligent Systems Conference 2017 (IntelliSys2017) London, UK, IEEE, September 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Speaker Verification Using Cosine Distance Scoring with I-vector Approach," 2020 IEEE International Conference on Computer Science and Software Engineering (CSASE)-Duhok, Iraq, IEEE, 2020.
- Mohanad Abd Shehab, Musab T. S. Al-Kaltakchi, "Indoor Human Tracking System Based on Simple Electronic Mobile Network," Proceedings of International Conference on Studies in Education and Social Sciences, ICSES Conference, Turkey, 2022.
- Raid Rafi Omar Al-Nima, Musab T. S. Al-Kaltakchi, Tingting Han, Wai L. Woo, "Road Tracking Enhancements for Self-Driving Cars Applications," AIP Conference Proceedings (International Conference on Innovations in Science, Hybrid Materials and Vibration Analysis (IC-ISHVA-2022)), AIP, India, 2023.

• **MSc. and PhD Theses:**

- Musab T. S. Al-Kaltakchi, "Speech Compression using Linear Prediction Coding in Wavelet Domain, " MSc. Thesis: Department of Electrical Engineering, College of Engineering, Mustansiriyah University, Baghdad, Iraq, 2004.
- Musab T. S. Al-Kaltakchi, "Robust Text Independent Closed Set Speaker Identification Systems and Their Evaluation, " PhD. Thesis: School of Electrical and Electronic Engineering, Newcastle University, UK, 2018.

• **Book Chapter:**

- Musab T. S. Al-Kaltakchi, Mohammed A. M. Abdullah, Wai L. Woo, Satnam S. Dlay, "Closed-set speaker identification system based on MFCC and PNCC features combination with different fusion strategies, " in Applied Speech Processing: Algorithms and Case Studies, Elsevier,2021.

تطوير المهارات:

• **Certifications.**

1. Certificate of Participation as Author in Intelligent System Conference 2017, London, UK.
2. Certificate of Attendance "2016 IEEE Workshop on Statistical Signal Processing", Palma de Mallorca, Spain.
3. Certificate of Attendance "5th IWBF 2017 Biometrics and Forensics", Coventry, UK.
4. Certificate of Participation "2016 IEEE Workshop on Statistical Signal Processing", Palma de Mallorca, Spain.
5. Certificate of Attendance "4th IWBF 2016 Biometrics and Forensics", Limassol, Cyprus.
6. Certificate of Attendance "Introduction to Learning and Teaching in Higher Education", October 2014, organized by the Staff Development Unit-Newcastle University, UK.
7. Certificate of Attendance "Introduction to Matlab", held at school of Electrical & Electronic Engineering, Newcastle University on 18 December 2013.
8. Certificate of Attendance "Advanced Matlab", held at school of Electrical & Electronic Engineering, Newcastle University on 19 December 2013.
9. Certificate of successfully completed the Industrial Statistics Research Unit (ISRU) course in " Design of Experiments", Newcastle University, March 2015.
10. Certificate of successfully completed the Industrial Statistics Research Unit (ISRU) course in " Practical Statistics 1", Newcastle University, January-2015.
11. Certificate of successfully completed the Industrial Statistics Research Unit (ISRU) course in " Practical Statistics 2", Newcastle University, February-2015.
12. Certificate of successfully completed the Industrial Statistics Research Unit (ISRU) course in " Practical Statistics 3", Newcastle University, February-2015.
13. Certificate of passing "the Pre-Sessional English Programme ", (27 June 2013- 6 September 2013) INTO-Newcastle University.
14. Certificate of attendance "A course in Emergency Life Support ", Newcastle, UK, 2015.
15. Certificate of Completion "How to review a manuscript ", Elsevier Publishing Campus, July 2016.
16. Certificate of attendance "How to become a Reviewer and what do Editors expect? ", 2016.

17. Certificate of " Internet and Computing Core Certification (IC³)", 8 January 2012.
18. Certificate of " International English Language Testing System ", British Council, 2012.
19. Certificate of " TOEFL. ITP ".
20. Certify as a Member in Al-Kindi Society for Engineers 2015.
21. Certificates for Reviewing papers in the following journals:
 - **Electronics letters. (1)**
 - **Expert systems with applications. (3)**
 - **IEEE transactions on consumer electronics. (3)**
 - **IET signal processing. (2)**
 - **International journal of speech technology. (1)**
 - **Journal of forensic sciences. (1)**
 - **Signal, image and video processing. (1)**
 - **The Australian journal of forensic sciences (1)**
 - **Wireless communications and mobile computing (1)**
 - **Biomedical signal processing and control. (1)**
 - **Hindawi portfolio of journals.(1)**
22. Certificates for Reviewing papers in the following conferences:
 - **CSCTIT 2022/The 5th COLLEGE OF SCIENCE INTERNATIONAL CONFERENCE ON RECENT TRENDS / IN INFORMATION TECHNOLOGY / Held on 27th- 28th November at Baghdad – Iraq (two papers)**
 - **College of Science-Mustansiriyah University.**
 - **6th Applied Engineering and 3rd Sustainable Engineering Conference/ held by Mustansiriyah University- College of Engineering 25-26 June 2023.**
23. Certificates for Attendance Conference.
 - **6th Applied Engineering and 3rd Sustainable Engineering Conference/ held by Mustansiriyah University- College of Engineering 25-26 June 2023.**
- 24- Certificates for presentation and attended International Conference:
 - presented the "**INDOOR HUMAN TRACKING SYSTEM BASED ON SIMPLE ELECTRONIC MOBILE NETWORK**" as an oral presentation and attended International Conference on Studies in Education and Social Sciences (ICSSES) held on November 10-13, 2022 in Antalya/Turkey.
 - presented the "**Road Tracking Enhancements for Self-Driving Cars Applications**" In the International Conference on Innovations in Science, Hybrid Materials and Vibration Analysis IC-ISHVA 2022, held on 16-17 July 2022.
- 25- Certificates for Publishing the Following Papers:
 - Certificate of publication for the article titled: **Classifications of Signatures by Radial Basis Neural Network** Published in: **Bulletin of Electrical Engineering and Informatics**, Vol. 11, No. 6, December 2022.
 - Certificate of publication for the article titled: **Ensemble System of Deep Neural Networks for Single-Channel Audio Separation** Published in: **Information** 2023, Volume 14, Issue 7, 352. Cite Score 5.8, Impact Factor 3.1.
 - Certificate of publication for the article titled: **Comprehensive Evaluations of Student Performance Estimation via Machine Learning** Published in: **Mathematics** 2023, Volume 11, Issue 14, 3153, Cite Score 3.5, Impact factor 2.4.

● Conferences.

- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Study of fusion strategies and exploiting the combination of MFCC and PNCC features for robust biometric speaker identification," 4th IEEE International Conference on Biometrics and Forensics (IWBF)-Limassol, Cyprus, IEEE, 2016.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "STUDY OF STATISTICAL ROBUST CLOSED SET SPEAKER IDENTIFICATION WITH FEATURE AND SCORE-BASED FUSION," 2016 IEEE Workshop on Statistical Signal Processing-Palma de Mallorca, Spain, IEEE, 2016.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Speaker identification evaluation based on the speech biometric and i-vector model using the TIMIT and NTIMIT databases," 5th IEEE International Workshop on Biometrics and Forensics (IWBF)-Coventry, UK, IEEE, 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Comparison of I-vector and GMM-UBM approaches to speaker identification with TIMIT and NIST 2008 databases in challenging environments," 25th IEEE-European Signal Processing Conference (EUSIPCO), 2017-Kos, Greece, IEEE, 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Multi-Dimensional I-Vector Closed Set Speaker Identification based on an Extreme Learning Machine with and without Fusion Technologies," IEEE-Intelligent Systems Conference 2017 (IntelliSys2017) London, UK, IEEE, September 2017.
- Musab T. S. Al-Kaltakchi, Wai L. Woo, Satnam S. Dlay, Jonathon A. Chambers, "Speaker Verification Using Cosine Distance Scoring with I-vector Approach," 2020 IEEE International Conference on Computer Science and Software Engineering (CSASE)-Duhok, Iraq, IEEE, 2020.
- Raid Rafi Omar Al-Nima, Musab T. S. Al-Kaltakchi, Tingting Han, Wai L. Woo, "Road Tracking Enhancements for Self-Driving Cars Applications," AIP Conference Proceedings (International Conference on Innovations in Science, Hybrid Materials and Vibration Analysis (IC-ISHVA-2022)), AIP, India, 2022.
- Mohanad Abd Shehab, Musab T. S. Al-Kaltakchi, "Indoor Human Tracking System Based on Simple Electronic Mobile Network," Proceedings of International Conference on Studies in Education and Social Sciences, ICSES Conference, Turkey, 2022.

• Workshops.

- حضرت حوالي 50 ورشة عمل في الجامعة المستنصرية/ العراق في مواضيع مختلفة خلال الفترة (2018-2023) وحصلت على بعض الشهادات من بعض هذه الورش.
- لقد حضرت حوالي 50 ورشة عمل في جامعة نيوكاسل/ المملكة المتحدة طوال فترة الدكتوراه. فترة الدراسة (2013-2017) وحصلت على بعض الشهادات من بعض هذه الورش، الورش كما هو موضح أدناه:

Postgraduate Researcher Development Programme



Personal Details:

Name:	Musab Tahseen Salahaldeen Al_kaltakchi	
Email:	m.t.s.al-kaltakchi@newcastle.ac.uk	
School:	D-SEEE	
Faculty:	sage	
Supervisor:		
PGRDP Credit Total:	2014/15	147
	2015/16	27
	2013/14	161

Forthcoming Bookings:

Module Title	Workshop	Start Date	Start Time	Campus module	Venue			
SAGe PGRDP	D2: Presentation Skills (One to Ones)	16/06/2016	15.45	False	G20, Ground Floor, Devonshire Building	View	remove	

Previously attended Workshops:

Module Title	Workshop	Date	Time	PGRDP Credits	Venue
SAGe PGRDP	School Activities 2013-14: In-sessional English	01/10/2013		5	
SAGe PGRDP	School Activities 2013-14: School Conference Poster Presentation	01/10/2013		5	
SAGe PGRDP	Induction for 1st Year PGRs	07/10/2013	14.20	5	Room 2.21 and 2.22 Research Beehive, Old Library Building
SAGe PGRDP	D: Communication and dissemination - Features of Academic Writing	09/10/2013	10.00	3	Room G21/22, ground floor, Devonshire Building
SAGe PGRDP	D: Communication and dissemination - Writing a Literature Review	22/10/2013	10.00	3	Room G21/22, ground floor, Devonshire Building
SAGe PGRDP	B: Personal qualities - Effective and Confident Verbal Communications	29/10/2013	09.30	10	Room G21/22, ground floor, Devonshire Building

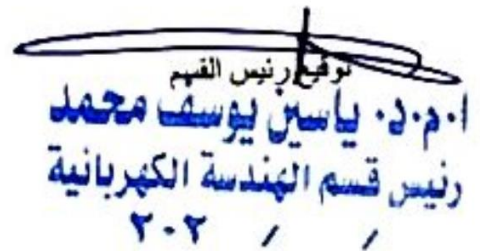
SAGe PGRDP	A: Knowledge Base (IT) - Document Management - Content and Layout	30/10/2013	13.00	4	Chart PC Cluster, third floor, Bedson Teaching Centre
SAGe PGRDP	C: Research management - Managing Your PhD	31/10/2013	09.00	10	Room G21/22, ground floor, Devonshire Building
SAGe PGRDP	SCHOOL VALIDATED PGRDP CREDITS	31/10/2013		5	2013-2014 (5)
SAGe PGRDP	A: Knowledge Base (IT) - Document Management - Images and Tables	01/11/2013	09.00	4	PC Cluster, Room 2.40, Bedson Teaching Centre
SAGe PGRDP	A: Knowledge Base (IT) - Creating Academic Posters	04/11/2013	10.00	4	PC Cluster, Room 2.40, Bedson Teaching Centre
SAGe PGRDP	D: Communication and Dissemination - Using Sources in Your Work Without Plagiarism	05/11/2013	10.00	3	Room G21/22, ground floor, Devonshire Building
SAGe PGRDP	B: Professional and Career Development - How to write a CV for Academia	06/11/2013	13.15	2	room 1.20, King's Gate
SAGe PGRDP	C: Research Management - ePortfolio	06/11/2013	14.00	2	Chart Cluster, Third Floor, Bedson Teaching Centre
SAGe PGRDP	A: Knowledge Base (IT) - Advanced Document Management - Using Word and Endnote	08/11/2013	09.00	5	Chart PC Cluster, Bedson Teaching Centre
SAGe PGRDP	A: Knowledge Base (IT) - Data Handling and Spreadsheet Skills	08/11/2013	14.00	4	PC Cluster, Room 2.40, Bedson Teaching Centre
SAGe PGRDP	B: Personal Qualities - Personal Development Planning	14/11/2013	10.00	3	G21/22, Ground Floor, Devonshire Building
SAGe PGRDP	A: Knowledge Base (IT) - Webpace - Webpage Design using HTML	15/11/2013	10.00	10	Chart PC Cluster, Bedson Teaching Centre
SAGe PGRDP	D: Communication and dissemination - Scientific Writing for Publication	26/11/2013	10.00	3	Room G21/22, ground floor, Devonshire Building
SAGe PGRDP	A1: Knowledge Base - Matlab 1 (Introduction)	18/12/2013	08.30	10	School of Electrical and Electronic Engineering, Computer Lab, 1st floor, Merz Court
SAGe PGRDP	A1: Knowledge Base - Matlab 2 (Advanced)	19/12/2013	08.30	10	School of Electrical and Electronic Engineering, Computer Lab, 1st floor, Merz Court
SAGe PGRDP	D: Communication and dissemination - Critical Reading and Writing	28/01/2014	10.00	3	Room G21/22, ground floor, Devonshire Building
SAGe PGRDP	A: Cognitive abilities - Practical Statistics I	07/04/2014	09.30	15	PC Cluster, room 2.40, Bedson Teaching Centre
SAGe PGRDP	A: Cognitive abilities - Practical Statistics II	23/04/2014	09.30	15	PC Cluster, room 2.40, Bedson Teaching Centre
SAGe PGRDP	B: Personal qualities - E-Portfolio and Personal Development Planning	07/05/2014	09.30	4	Nereid Cluster, room 472, Ridley Building
SAGe PGRDP	A: Knowledge Base - LaTeX	09/06/2014	10.00	10	Chart PC Cluster, third floor, Bedson Teaching Centre
SAGe PGRDP	A: Knowledge Base (IT) - Presentation Skills using PowerPoint	16/06/2014	14.00	4	Chart PC Cluster, third floor, Bedson Teaching Centre
SAGe PGRDP	School Activities 2014-15: In-session English	01/10/2014		5	
SAGe PGRDP	School Activities 2014-15: School Conference Oral Presentation	01/10/2014		5	
SAGe PGRDP	School Activities 2014-15: Teaching/ Tutorial/ Demonstrating - 6 hours minimum	01/10/2014		5	
SAGe PGRDP	Induction for Continuing PGRs	06/10/2014	13.00	3	Dental Lecture Theatre C, ground floor, Dental School
SDU specific	Introduction to Learning and Teaching in Higher Education - demonstrating	07/10/2014	10.30	15	Howden Room, KGVI

SAGe PGRDP	A1: Advanced Document Management - using Word and EndNote	01/12/2014	13.00	5	Nereid PC cluster, fourth floor, Ridley Building 2
SAGe PGRDP	A2: Practical Statistics I	06/01/2015	09.30	15	2.40 PC, second floor, Barbara Strang Teaching Centre
SAGe PGRDP	A2: Practical Statistics II	03/02/2015	09.30	15	2.40 PC, second floor, Barbara Strang Teaching Centre
SAGe PGRDP	A2: Practical Statistics III	25/02/2015	09.30	10	Chart Cluster, 3.30, third floor, Barbara Strang Teaching Centre
SAGe PGRDP	A2: Design of Experiment Statistics	10/03/2015	09.30	15	Chart Cluster, 3.30, third floor, Barbara Strang Teaching Centre
SAGe PGRDP	A2: Introduction to R	16/03/2015	09.00	10	Room 2.96 (Cluster), second floor, Armstrong Building
SAGe PGRDP	A2: Introduction to Statistical Modelling in R	18/03/2015	09.00	10	Room 2.96 (Cluster), second floor, Armstrong Building
SAGe PGRDP	A2: Programming with R	19/03/2015	09.00	10	Room 2.96 (Cluster), second floor, Armstrong Building
SAGe PGRDP	C2: Writing Your Thesis and Preparing for Your Viva	20/03/2015	09.30	10	Room 2.21 Research Beehive, Old Library Building
SAGe PGRDP	Additional Credit Award	22/04/2015		3	Musab Al-Kaltakchi attendance at First Aid Course on 22/04/2015
SAGe PGRDP	A1: LaTeX	19/05/2015	10.00	10	Nereid PC cluster, fourth floor, Ridley Building 2
SAGe PGRDP	A1: Library - Publishing with the IEEE	09/06/2015	10.00	1	Robinson Library, Newcastle University
SAGe PGRDP	A1: IEEE Xplore	08/12/2015	13.00	5	152, Robinson Library
SAGe PGRDP	A1: Preparing Your Thesis (Managing Long Documents)	10/02/2016	09.00	8	2.40 PC, second floor, Barbara Strang Teaching Centre
SAGe PGRDP	D2: Writing up your thesis	11/04/2016	14.00	4	G21/22, Ground Floor, Devonshire Building
SAGe PGRDP	C2: Writing Your Thesis and Preparing for Your Viva	15/04/2016	09.30	10	G21/22, Ground Floor, Devonshire Building



توقيع معاون العميد

الأستاذ المساعد الدكتور
عبد الجبار محمد جاسم
مدير الشؤون الأكاديمية



توقيع رئيس القسم
أ.م.د. ياسين يوسف محمد
رئيس قسم الهندسة الكهربائية
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