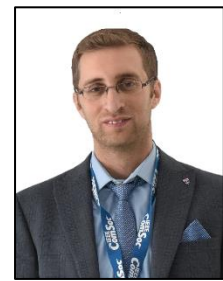


**Name:** Mohammed A. M. ABDULLAH

**E-mail:** [mohammed.abdulmuttaleb@uoninevah.edu.iq](mailto:mohammed.abdulmuttaleb@uoninevah.edu.iq)



## 1. Professional Experience

Position	Place	Duration (From- To)
<b>Head of the Continuing Education Center</b>	Ninevah University	August, 2020 - present
<b>Assistant Professor</b> of Computer Engineering and Intelligent Systems	Computer and Information Engineering Department, Ninevah University, Iraq	March, 2021 - present
<b>Lecturer</b>	Computer and Information Engineering Department, Ninevah University, Iraq	September, 2018-March, 2021
<b>PhD study</b>	School of Electrical and Electronic Engineering, Newcastle University, UK	Sep, 2013- November, 2017
<b>Asst. Lecturer</b>	Computer Engineering Department, University of Mosul, Iraq	Feb, 2010 – September, 2013
<b>Research Assistant Working on a project related to Iris recognition</b>	Department of Electrical Engineering and Electronics Liverpool University, UK	May- September, 2010

## 2. Education & Qualifications

- September, 2013 – November, 2017: **PhD in Electrical and Electronic Engineering.**  
*School of Engineering, Newcastle University, UK*
- 2008-2010: **M.Sc. degrees in Computer Engineering**  
*Computer Engineering Department, College of Engineering, University of Mosul, Iraq.*
- 2004-2008: **B.Sc. degrees in Computer Engineering**  
*Computer Engineering Department, College of Engineering, University of Mosul, Iraq.*

### 3. Courses taught

	<b>Course</b>	<b>Place</b>
1	Real-time systems	4 <sup>th</sup> Stage, Computer and Information Engineering Department, Ninevah University, Iraq
2	Embedded and control systems lab.	4 <sup>th</sup> Stage, Computer and Information Engineering Department, Ninevah University, Iraq
3	Electronics and Communication lab.	3 <sup>Rd</sup> stage, Computer and Information Engineering Department, Ninevah University, Iraq
4	Signal processing and system	Tutorial lecturer for Master and undergraduate students, School of Electrical and Electronic Engineering, Newcastle University, UK
5	Labs demonstrator	2 <sup>nd</sup> and 3 <sup>rd</sup> stage undergraduate students, School of Electrical and Electronic Engineering, Newcastle University, UK

### 4. Awards

- **ABTA 2017 Doctoral Researcher Award** (Engineering Sciences) <https://www.abtanet.org.uk/awards/dra-2017>
- **IEEE travel grant** to attend the 13<sup>th</sup> international school for advanced studies on biometrics, Italy 2016.
- **Best poster award and best presentation award** in the annual research conference, Newcastle University, Jan, 2014 and Jan, 2015, respectively.

### 5. Professional Training

<b>Program Title</b>	<b>Date</b>
<b>Fulbright visiting Scholar program,</b>	July-September, 2022, USA
<b>Career Development Center Coaching course, Expertise France, Erbil, Iraq</b>	19-24, Feb, 2022, Iraq
<b>IREX Research Management course</b>	January-March, 2022
<b>IREX E-learning course</b>	May-June, 2020
<b>Fourth Edinburgh Deep Learning Workshop</b>	March, 2017, UK
<b>21st BMVA Computer Vision Summer School</b>	4-8 July, 2016, UK
<b>13<sup>th</sup> Summer school for advanced studies on biometrics, Forensic Science and the Quest for Identity</b>	20-24 June, 2016, Italy

## 6. Fellowship of the UK Higher Education Academy

Place	Course Title	Date
Staff Development Unit, Newcastle University	<b>Introduction to Teaching and Learning in Higher Education (ILTHE)</b>	Feb, 2014
	<b>Learning, Teaching and Engaging Students (leading to the title of Associate Fellow of Higher Education Academy (AFHEA))</b>	November, 2015

## 7. Skills

<b>Programming languages:</b>	Matlab, Python, Embedded C/ C++, VHDL, Assembly, JAVA, HTML etc.
<b>Operating Systems:</b>	MSDOS, Windows, Unix, Linux.
<b>Hardware</b>	Arduino, Raspberry Pi, FPGA, 8051 Microcontroller Kit, 8086 Microprocessor
<b>Software:</b>	Arduino IDE, Matlab, MS Office, Xilinx ISE, ModelSim, Maple, Lab View, Multisim, LaTeX, Packet Tracer, Front Page, Adobe Photoshop, Multimedia Builder etc.
<b>Presentation</b>	Developed ability to produce reports and presentations to a professional standard.
<b>Organizational</b>	Effective at time management and prioritizing tasks to achieve deadlines.
<b>Languages</b>	<ul style="list-style-type: none"> <li>• Arabic (native language),</li> <li>• English (Excellent speaking, reading and writing ability).</li> </ul>

## 8. Membership

- **AFHEA** (Associate follow of the Higher Education Academy, UK, 2017)
- **Senior IEEE Member** (M 2010 – SM 2020)
- **BMVA member** (2014-present)

## 9. Publications (google scholar H-index = 13, 10-index=17)

Details on: [https://scholar.google.co.uk/citations?user=e4\\_29gUAAAAAJ&hl=en](https://scholar.google.co.uk/citations?user=e4_29gUAAAAAJ&hl=en)

### • Selected Journal papers

1. S Alkassar, **MAM Abdullah**, BA Jebur, B Wei, WL Woo, “Automated Diagnosis of Childhood Pneumonia in Chest Radiographs Using Modified Densely Residual Bottleneck-Layer Features”, Applied Sciences, MDPI, 2021.
2. BA Jebur, S Alkassar, **MAM Abdullah**, Charalampos C Tsimenidis “Efficient Machine Learning-Enhanced Channel Estimation for OFDM Systems” , IEEE Access, Vol. 9, 2021.
3. **MAM Abdullah**, S Alkassar, B Jebur, JA Chambers , “LBTS-Net: A fast and accurate CNN model for brain tumour segmentation” IET Healthcare letter, 2021.
4. S Alkassar, B Jebur, **MAM Abdullah**, J Al-Khalidy, JA Chambers, Going deeper: magnification-invariant approach for breast cancer classification using histopathological images, IET Computer Vision, 2021.
5. MTS Al-Kaltakchi, **MAM Abdullah**, WL Woo, SS 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, 2021.
6. Alageli, Mahmoud, Aissa Ikhlef, Fahad Alsifiany, **M. A. M. Abdullah**, Gaojie Chen, and Jonathon Chambers. "Optimal Downlink Transmission for Cell Free SWIPT Massive MIMO Systems with Active Eavesdropping." **IEEE Transactions on Information Forensics and Security**, vol. 15, pp. 1983-1998, 2020.
7. Z Abdullah, G Chen, **MAM Abdullah**, JA Chambers , “Enhanced Secrecy Performance of Multihop IoT Networks with Cooperative Hybrid-Duplex Jamming” IEEE Transactions on Information Forensics and Security, 2020
8. Al-Kaltakchi, Musab TS, Raid Rafi Omar Al-Nima, **M. A. M. Abdullah**, and 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* 22, no. 3 September, 2019.
9. **M. A. M. Abdullah**, Z. Abdullah, E Tang, G. Gen and J. A. Chambers, " Performance Analysis of Cognitive Clustered M2M Random Networks with Joint User and Machine Device Selection," **IEEE Access**, vol. 7, June. 2019.
10. **M. A. M. Abdullah**, S. S. Dlay, W. L. Woo, and J. A. Chambers, "Robust Iris Segmentation Method Based on a New Active Contour Force With a Noncircular Normalization," **IEEE Transactions on Systems, Man, and Cybernetics: Systems**, vol. 47, no. 12, pp. 3128-3141, Dec. 2017.
11. **M. A. M. Abdullah**, S. S. Dlay, W. L. Woo, and J. A. Chambers, "A Framework for Iris Biometrics Protection: A Marriage Between Watermarking and Visual Cryptography," **IEEE Access**, vol. 4, pp. 10180-10193, 2016.

12. **M. A. M. Abdullah**, S. S. Dlay, W. L. Woo, and J. A. Chambers, "A novel framework for cross-spectral iris matching," **Springer IPSJ Transactions on Computer Vision and Applications**, vol. 8, Nov, 2016.
13. S. A. M. Al-Sumaidae, **M. A. M. Abdullah**, R. R. O. Al-Nima, S. S. Dlay, W. L. Woo, and J. A. Chambers, "Multi-gradient Features and Elongated Quinary Pattern Encoding for Image-based Facial Expression Recognition", **Elsevier Patter Recognition**, Vol. 71, pp. 249-263, Nov., 2017.
14. R. R. O. Al-Nima, **M. A. M. Abdullah**, S. S. Dlay, W. L. Woo, and J. A. Chambers, "Finger Texture Biometric Verification Exploiting a Multi-scale Sobel Angles Local Binary Pattern and Score-based Fusion", **Springer Signal, Image and Video processing**, Vol. 70, pp. 178-189, Nov. 2017.

## • Selected Conference papers

1. MTS Al-Kaltakchi, RR Al-Nima, M Alfathe, **MAM Abdullah**, Speaker Verification Using Cosine Distance Scoring with I-vector Approach, IEEE International Conference on Computer Science and Software Engineering, 2020
2. Sinan Al-kassar, **M. A. M. Abdullah**, Bilal Jebur, Automatic Brain Tumor Segmentation using Fully Convolution Network and Transfer Learning, IEEE ICECCPCE19 conference, April, 2019
3. Zedan, Mohammad JM, Mamoon A. Al-Jbaar, **M. A. M. Abdullah**. "Real-time Environmental Control System for Disability Access under Node-MCU Platform." IOP Conference Series: Materials Science and Engineering. Vol. 518. No. 4. IOP Publishing, 2019.
4. **M. A. M. Abdullah**, Gaojie Chen, Mahmoud Alageli, Aissa Ikhlef, and Jonathon Chambers. "Performance Analysis of Cognitive Clustered Machine-to-Machine Networks with Device Selection." In 2018 IEEE Globecom Workshops (GC Wkshps), pp. 1-5. IEEE, 2018.
5. **M. A. M. Abdullah**, J. A. Chambers, W. L. Woo, and S. S. Dlay, "Iris biometric: Is the near-infrared spectrum always the best?," in *2015 3rd IAPR Asian Conference on Pattern Recognition (ACPR)*, 2015, pp. 816-819.
6. **M. A. M. Abdullah**, S. S. Dlay, and W. L. Woo, "Securing Iris Images with a Robust Watermarking Algorithm based on Discrete Cosine Transform," in *Proceedings of the 10th International Conference on Computer Vision Theory and Applications (VISAPP 2015)*, Berlin, Germany, 2015, pp. 108-114.
7. **M. A. M. Abdullah**, S. S. Dlay, and W. L. Woo, "Fast and Accurate Method for Complete Iris Segmentation with Active Contour and Morphology," in *2014 IEEE International Conference on Imaging Systems and Techniques (IST2014)*, Santorini Island, Greece, 2014, pp. 123 - 128.
8. **M. A. M. Abdullah**, Dlay, S.S. and Woo, W.L., 2014. Fast and accurate pupil isolation based on morphology and active contour. The 4th international conference on Signal, Image processing and Applications, 2014.
9. **M. A. M. Abdullah**, F. H. A. Al-Dulaimi, Waleed Al-Nuaimy, and Ali Al-Ataby. "Smart card with iris recognition for high security access environment." In 2011 1<sup>st</sup> Middle East Conference on Biomedical Engineering, pp. 382-385. IEEE, 2011.

- **Book chapters**

1. MTS Al-Kaltakchi, **MAM Abdullah**, WL Woo, SS Dlay , Closed-set speaker identification system based on MFCC and PNCC features combination with different fusion strategies, *Applied Speech Processing: Algorithms and Case Studies*, Elsevier, 2021
2. **M. A. M. Abdullah**, R. R. O. Al-Nima, S. S. Dlay, W. L. Woo, and J. A. Chambers, "Cross-spectral Iris Matching for Surveillance Applications", *Surveillance in Action, Advanced Sciences and Technologies for Security Applications*. Springer, Cham. Jan., 2018.
3. A. Al-Ataby, W. Al-Nuaimy, and **M. A. M. Abdullah**, "Wavelet Transform-Multidisciplinary Applications," in *Wavelet Transforms and Their Recent Applications in Biology and Geoscience*, ed: InTech, 2012, pp. 255-250