**Curriculum Vitae**

1. **Personal Information**

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| Name | Wafaa Khazaal Shams |
| Citizenship | Iraqi |
| Address | (1) Iraq, baghdad |
| Birthdate | 13-01-1975 |
| Mobile | 009647717904842, |
| Email | [shwafaa30@gmail.com](mailto:shwafaa30@gmail.com) |
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1. **Graduation.**

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| **NO** | **DEGREE** | **YEAR OF GRADUATION** | **SPECIALIST** | **UNIVERSITY** | **COUNTRY** |
| 1 | Post-Doctorate | 2017 | EEG Processing  Medical data analysis  Machine learning  Neuro-cognitive | University technology Petronas | Malaysia |
| 2 | PhD of computer science | 2015 | EEG Processing  Machine learning  Neuro-cognitive | International Islamic University | Malaysia |
| 3 | Master of physics science | 2000 | Image Processing | Baghdad University | Iraq |
| 4 | Bachelor of Physics science | 1996 | Physics | Baghdad University | Iraq |

1. **Academic Teaching Experience.**

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| PERIOD | POSITION | EMPLOYER | JOB DESCRIPTIOON |  |
| 2018- | Lecturer | Bilad Alrafidain University /  Computer engineering  Dept. | Teaching subjects:   1. Computer Security (cryptography) 2. Project Management course 3. Mathematics I 4. Analog Electronics 5. Computer application   Member of examination committee  Member of E-learning committee |  |
| 2017-2018 | Lecturer | Al-Yarmouk University college/computer  science dept | Teaching subjects:   1. Artificial Intelligence. (agent, logic and probability, neural network) 2. Human computer Interaction   Member of examination committee |  |
| 2016-2017 | Post-Doctorate | UTP /Electronics and Electric engineering Departments CISIR Group | (1)Taught the internship student –Introduction to EEG  (2) Taught postgraduate students - EEG digital signal analysis, brain function, and Research methodology.  (3) Provided them with resources documents and guided them. | Monitor : Associate Professor Dr. Aamir saeed Mailk |
| 2014-2015 | Lecturer  (Part Time) | IIUM/ Information and Communication Faculty / Computer Science Dept. | (1) Taught Discrete Mathematics  (2) Created course syllabus, students activates and students projects | / |
| 2014-2015 | Lecturer  (Part Time) | IIUM/ Information and Communication Faculty / Information system Dept. | (1) Taught Information Technology course for undergraduate students  (2) Created course syllabus, students activates and students projects | / |
| 2006-2010 | Lecturer | Baghdad University /Ibn Al Hathem Collage /Physics Dep. | (1) Taught Pattern recognition , Image processing , operating system and Matlab  (2) Created course syllabus, students activates and students projects | .  / |
| 2000 | Lecturer  (Part time) | Al Mustanseryha.  University /Airspace Dept. | (1) Taught Mathematics I  (2) Created students activates and students projects |  |

### **Teaching Courses.**

1. **Computer security (cryptography), Project Management (Fourth year student)**
2. **Artificial Intelligence & Neural network, Data Analytic (structure and unstructured data, probability, data reduction, predication, regression). Third year**
3. **Analog electronics, Human computer Interaction, MATLAB, Network Simulator, (Second year)**
4. **Mathematics I, Disc .Mathematics ,Applied Computer (First year )**
5. **Lectures for degree student; Brain-cognitive Research methodology; EEG Signal processing .**
6. **Academic Research Experience**

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| PERIOD | POSITION | EMPLOYER | JOB DESCRIPTIOON |  |
| 2016-2017 | Post-Doctorate | UTP /Electronics and Electric engineering Departments CISIR Group | (1)Work with master student on Localize motor function using EMG and published one journal ISI,Q1  (2) Worked on Quantitative EEG software in which I accomplished the classification process provided Mat lab codes and guided programmers.  (3) Worked on Personalize learning Project in which designed a model to emerge of learning styles and cognitive styles. | Monitor : Associate Professor Dr. Aamir saeed Mailk |
| 2011-2015 | PhD candidate | IIUM/ Information and Communication Faculty / Computer Science Dep. | Thesis Title :Anew Feature Extraction Method For Quantitative EEG based On  Relative Source Temporal Approach.  Role : Generate prototype that integrate feature extraction and classification technique for EEG data and prediction technique for  brain activity | Supervisor :  Prof. Dr. Abdual Wahab  Assoc.Prof.Dr. Imad Fakhri |
| May.2015 – July 2015 | Researcher | IIUM/ Information and Communication Faculty / Computer Science Dep. | Project :dowment B EDW B11-080-0558  Title : Gene Expression Profiling Predicts The Development Of Oral Cancer  Role : Develop classification model to predicate human health state | Supervisor :  Dr. Zaw Zaw |
| 1998-2000 | Master | Baghdad University /Ibn Al Hathem Collage /Physics Dep. | Thesis Title : Adpative Principle Component Method For Image Classification And Coding  Role : Generate prototype for lassification and coding SAR and satellite  Image based on PCA | .  Supervisor : Prof .Dr. Ali shalah Mahdi / |

1. **Publications**

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| 1 | Elaina, N. S., Malik, A. S**., Shams, W. K**., Badruddin, N., Abdullah, J. M., & Reza, M. F. (2018). Localized N20 Component of Somatosensory Evoked Magnetic Fields in Frontoparietal Brain Tumor Patients Using Noise-Normalized Approaches. Clinical Neuroradiology, 1-15. | ISI,Q1,IF 2.8 |
| 2 | **Shams, W. K.** and Z. Z. Htike (2017). "Application of Machine Learning to Determine the Characteristics of Adjacent Normal Tissues in Liver Cancer." International Journal of Applied Engineering Research **12**(22): 12319-12321. | ISI, IF 0.14 |
| 3 | **Shams, W. K**. and Z. Z. Htike (2017). "Oral Cancer Prediction Using Gene Expression Profiling and Machine Learning." International Journal of Applied Engineering Research 12(15): 4893-4898. | ISI,IF 0.14 |
| 4 | **Shams W K**, Information I I U M K o and Technology C 2015 *A New Feature Extraction Method for Quantitative Egg Based on Relative Source Temporal (RST) Approach*: Kulliyyah of Information and Communication Technology, International Islamic University Malaysia). https://books.google.com.my/books/about/A\_New\_Feature\_Extraction\_Method\_for\_Quan.html?id=YDuJAQAACAAJ&redir\_esc=y | Book |
| 5 | **Shams,WK**. Wahab, A.Qadwi,U,Fakhri,I(2013) . Emotion Recognition Model Using Source –Temporal Features and Fuzzy . The 20th International Conference on Neural Information Processing . lecture Notes in Computer Science,8226, 577-584 | ISI,IF:0.8 |
| 6 | **Shams, W. K**., Wahab, A., & Fakhri, I. (2013). Affective Computing Model Using Source-temporal Domain. Procedia-Social and Behavioral Sciences, 97, 54-62 |  |
| 7 | **Shams ,WK**. Wahab,A.(2013 ). Source-temporal-features for detection EEG behavior of autism spectrum disorder. 5th International Conference on Information and Communication Technology for the Muslim World, ICT4M 2013; Rabat; Morocco, 1-5. |  |
| 8 | **Shams ,WK**.(2013). A Proposed Model for Estimating the Outcome of the Autism Spectrum Disorder. First International Conference on Technology for Helping People with Special Needs, February ,Riyadh, Kingdom of Saudi Arabia.150-153. |  |
| 9 | Qidwai,U.& **Shams,WK**. (2013). A Source-Discrimination Approach for Detection of ASD Using EEG Data. International Journal of Bioscience, Biochemistry and Bioinformatics ,3(5). 492-496. |  |
| 10 | **Shams WK**., Wahab W., Qidwai UA. (2012). Fuzzy Model for Detection and Estimation of the Degree of Autism Spectrum Disorder. Lecture Notes in Computer science, 7666, 372-379. | (ISI,IF:0.8). |
| 11 | **Shams WK**., Wahab W., Qidwai UA. (2012). Detecting different tasks using EEG-source-temporal features. Lecture Notes  in Computer science, 7666, 380-387. | (ISI,IF:0.8). |
| 12 | **Shams ,WK**. & Wahab,A.(2012). Characterizing Autistic Disorder based on Principle Component Analysis. Australian Journal of Basic and Applied Sciences, 6 (1),149-155 |  |
| 13 | **Shams, W**., Wahab,A. (2012). Principal Component Analysis for Detection Autism disorder during Motor Movement . In Wahab,A.Understanding Brain Development Disorder Based on EEG in Soft Computing Approach, IIUM Press 191-213. |  |
| 14 | Attea,BA.,Rashid,LM.**Shams,WK**.(2010) . Evolutionary algorithm for example-based painterly rendering International Journal of Bio-Inspired Computation, 2(2),.132-141. | (ISI,Q2,IF:1.5) |

1. **Awards**
2. Best Poster award , ICIoT 2020” Modelling emotion trajectory of children using spatial temporal brain activity” Feb,2020, Qatar.
3. Silver medal /PGSC/KICT/IIUM “Affective Computing Model using Source-Temporal Domain”. Wafaa shams, Abdul wahab, Imad fakhri,Oct.2013
4. Best Poster for PGSC/KICT/IIUM” Identify New features for detection ASD brain activity” Wafaa Shams and Abdul wahab. Feb.2013
5. Silver medal /IRIE/IIUM “MYDSS: computerized card sorting game for understanding of children brain development” Mariani Othman, Abdul Wahab and Wafaa Shams. 2012
6. Bronze medal for PGSC/KICT/IIUM” localize motor activity using EEG” Wafaa Shams and Abdul wahab.

Feb.2012.

**8. Reviewing Assessment**

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| 1. 3 th International Conference on Advanced Computer Science Applications and Technologies – ACSAT 2014 | Conference |
| 2. 4 th International Conference on Advanced Computer Science Applications and Technologies – ACSAT 2015 | Conference |
| 3. Autism-Open Access, OMICS Publishing Group | Journal |
| 4.Intelligent Automation & Soft Computing | Journal |

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### **Research Institutes Membership.**

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| **No** | **Institute** | **Membership No./Account** |
| **1** | **Scopus** | [**https://www.scopus.com/authid/detail.uri?authorId=54958705900**](https://www.scopus.com/authid/detail.uri?authorId=54958705900) |
| **2** | **Google scholar** | **https://scholar.google.com/citations?user=9ngKJkwAAAAJ&hl=en** |
| **3** | **Research Gate** | **https://www.researchgate.net/profile/Wafaa\_Shams2** |

### **10 Research Interest.**

**1. Medical data analytics**

**2. EEG-Recognition System , Human Cognition , Emotion , Mirror Neuron System and Behavior**

**3. Machine Learning system و Deep learning ,and Predication values**

**4. Brain Development Disorder (ASD)**

### **11.** **Non Academic Works**.

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| NO | PERIOD | POSITION | EMPL0YER | JOB DESCRIPTIOON |
| 1 | 2001-2004 | Programmer – Assistant Manger | Internet Company -Iraq | Assessment and evaluate training courses for employers  Design internal national network (team work),  Documentary and Financial work |

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| **No** | **REFEREE** | **H/P No.** | **E-MAIL** |
| 1 | Prof .Dr. Abdul Wahab bin Abdul Rahman Dean of Faculty of Information Technology and Communication ,International Islami  University Malaysia , kuala lumpur | +60361965601 | abdulwahab@iium.edu.my |
| 2 | Prof. Dr. Imad Fakhri AlShaikhli  Faculty of computer Science and Head of research , ICT college.  International Islamic University Malaysis. | +60166864672 | imadf@iium.edu.my |
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