

Waled Husein Mohammed Al_Arashi

PhD. (Imaging – Face Recognition)

B.Sc. (Electrical Eng. (Computer & Control)); M.Sc. (Embedded System);
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Education

<u>PhD. (Imaging – Face Recognition)</u>	
<i>School of Electrical Engineering University Science Malaysia, Malaysia (USM)</i>	<i>Major: Imaging – Face Recognition, April 2014</i>
Thesis Title: “TOWARDS PRACTICAL FACE RECOGNITION SYSTEM EMPLOYING ROW-BASED DISTANCE METHOD IN 2DPCA BASED ALGORITHMS”	
<u>M.Sc. (Embedded Systems)</u>	
<i>Faculty of Hijjawi for Engineering Technology- Computer Engineering Department. Yarmouk University - Jordan</i>	<i>Major: Embedded Systems, September 2006</i>
<u>B.Sc. Electrical Eng. (Computer & Control)</u>	
<i>Faculty of Engineering – Electrical Engineering Department. Sana'a University - Yemen.</i>	<i>Major: Computer & Control Eng, June 2004</i>

SKILL SETS, AWARDS & GRANTS

- Languages: Arabic-native language; English- speak, read and write with good proficiency.
 - Awarded of Higher Education Ministry scholarship for full BSc, period 1998-2002.
 - Awarded of DAAD (German organization) scholarship for master study, period 2005-2006.
 - Awarded of Higher Education Ministry scholarship for full PhD, period 2010-2014.
 - Awarded of University Science Malaysia of Research Grant No. (1001/ PELECT/ 8021023), Postgraduate Incentive Research Grant.
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SHORT COURSES AND WORKSHOPS IN VARIED FIELDS:

- Write and get Published Training Course. Education and Learning Center, UST, Yemen. 2008.
 - Assessment of Graduate Project. Training Course, Education and Learning Center, UST, Yemen, June 2008.
 - Teaching Academic Methods. Training Course, Education and Learning Centermost, Yemen. 2009.
 - Latex writing, Training course, School of Electrical and Electronic, USM, Malaysia, 2011.
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PROFESSIONAL EXPERIENCE AND NETWORKING

1. Deputy Dean of Faculty of Engineering, University of Science and Technology Yemen, Sana'a, Yemen (March 2019- Present).
2. Head of Electronic Engineering, Faculty of Engineering, University of Science and Technology Yemen, Sana'a, Yemen (October 2017- March 2019).

3. Assistant Professor, Department of Electronic Eng., Faculty of Engineering, University of Science and Technology Yemen, Sana'a, Yemen (May 2014-Present).
 4. Committee Member of Program Specification Document, Department of Electronic Engineering (PSD), Faculty of Engineering, University of Science and Technology Yemen, Sana'a, Yemen (June 2014-Present).
 5. Member of the Academic Development Committee, Electronic Eng. Department, Faculty of Engineering, University of Science and Technology Yemen, Sana'a, Yemen (June 2014-Present).
 6. Lecturer, Department of Electronic Engineering, Faculty of Engineering, University of Science and Technology Yemen, Sana'a, Yemen (2004-2005) and (2006-2009).
 7. Lecturer, Department of Electrical Engineering, Faculty of Engineering, Sana'a University, Sana'a, Yemen (2004-2005).
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ACADEMIC TEACHING

Examples of Academic Subjects Include:

- *Embedded Systems*, at University of Science & Technology, Yemen.
 - *Assembly programming language*, at University of Science & Technology, Yemen.
 - *C programming*, at University of Science & Technology, Yemen.
 - *Data Structure and Algorithm*, at University of Science & Technology, Yemen.
 - *Java Programming*, at University of Science & Technology, Yemen.
 - *Computer Network*, at University of Science & Technology, Yemen.
 - *Logic circuit Design*, at University of Science & Technology and Sana'a University, Yemen.
 - *Computer Application of Electrical Circuits*, at Sana'a University, Yemen.
 - *Digital Image Processing (DIP)*, at University of Science & Technology, Yemen.
 - *Digital Signal Processing (DSP)*, at University of Science & Technology, Yemen.
 - *Database Systems*, at University of Science & Technology, Yemen.
 - *Artificial Intelligence*, at University of Science & Technology, Yemen.
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PUBLICATION

1. **Al-Arashi, W. H.** and Suandi, S. A. (2011). *New Distance Method in 2DPCA for Face Recognition*, Third Postgraduate Colloquium of School of Electrical and Electronic Engineering USM (EEPC2011), Pahang, Malaysia.
2. **Al-Arashi, W. H.** and Suandi, S. A. (2012). *2DPCA-Based Row-kNN Distance Computation for Face Recognition*, Proc. SPIE, Fourth International Conference on Digital Image Processing (ICDIP 2012), Vol. 8334, pp. 833436–833436–7.
3. **Al-Arashi, W. H.** and Suandi, S. A. (2013). *Row-Based Distance Computation in 2DPCA for Face Recognition*, Forth Postgraduate Colloquium of School of Electrical and Electronic Engineering USM (EEPC2013), Pulau Pangkor, Malaysia.
4. **Al-Arashi, W. H.**, Ibrahim, H. and Suandi, S. A. (2014). *Optimizing Principal Component Analysis Performance for Face Recognition using Genetic Algorithm*, Neurocomputing, 128(27): 415-420.
5. **Al-Arashi, W. H.**, Ibrahim, H. and Suandi, S. A. (2013). *Row-kNN Distance Function for Face Recognition in 2DPCA Based*, International Journal on Latest Trends in Electronics and Electrical Engineering 2(1).
6. **Al-Arashi, W. H.**, and Suandi, S. (2013). *Row-KNN Distance Computation in 2DPCA Based for Face Recognition*, International Journal of Academic Research Part A, 5(1): 139–145.
7. Damavandinejadmonfared, S., **Al-Arashi, W. H.** and Suandi, S. A. (2012). *Pose Invariant Face Recognition for Video Surveillance System using Kernel Principle Component Analysis*, Proc. SPIE, Fourth International Conference on Digital Image Processing (ICDIP 2012), Vol. 8334, pp. 833439–833439–5.
8. Tan M. C., Khan F. N., **Al-Arashi W. H.**, Zhou Y. and Lau A. P. T. (2014). *Simultaneous Optical Performance Monitoring and Modulation Format/Bit-Rate Identification Using Principal Component Analysis*, IEEE Journal of Optical Communications and Networking , 6(5): 441-448.
9. Khan, F. N., Teow, C. H., Kiu, S. G., Tan, M. C., Zhou, Y., **Al-Arashi, W. H.**, Lau, A. P. & Lu, C. (2015). *Automatic modulation format/bit-rate classification and signal-to-noise ratio estimation using asynchronous delay-tap sampling*. Computers & Electrical Engineering, 47: 126-133.
10. Khan, F. N., Yu, Y., Tan, M. C., **Al-Arashi, W. H.**, Yu, C., Lau, A. P. T., & Lu, C. (2015). *Experimental demonstration of joint OSNR monitoring and modulation format identification using asynchronous single channel sampling*. Optics express, 23(23): 30337-30346.
11. Al-Ashwal, A. Y., Al-Mawgani, A. H. M., & **Al-Arashi, W. H.** (2015). *An Image Steganography Algorithm for Hiding Data Based on HDWT, LZW and OPAP*. Journal of Science & Technology, 20(1): 10-22.
12. Alsamawi, M., Al-Mawgani, A. H. M., & **Al-Arashi, W. H.** (2016). *An Outage Probability in Cooperative MIMO under Slow Fading Channel*. Journal of Science & Technology, 21(1): 12-20.

13. Khan, F. N., Zhong, K., **Al-Arashi, W. H.**, Yu, C., Lu, C., & Lau, A. P. T. (2016). *Modulation Format Identification in Coherent Receivers Using Deep Machine Learning*. IEEE PHOTONICS TECHNOLOGY LETTERS, 28(17): 1886- 1889.
14. Azad, A. K., Khan, F. N., **Al-Arashi, W. H.**, Guo, N., Lau, A. P. T., & Lu, C. (2017). *Temperature extraction in Brillouin optical time-domain analysis sensors using principal component analysis based pattern recognition*. Optics Express, 25(14), 16534-16549.
15. Khan, F. N., Zhong, K., Zhou, X., **Al-Arashi, W. H.**, Yu, C., Lu, C., & Lau, A. P. T. (2017). *Joint OSNR monitoring and modulation format identification in digital coherent receivers using deep neural networks*. Optics Express, 25(15), 17767-17776.
16. Al-Mawgani, A. H. M., Alsamawi, M., & **Al-Arashi, W. H.** (2017). *An Outage Probability in Cooperative MIMO under Alamouti Orthogonal and Quasi Orthogonal STBC Slow Fading Channel*. Wireless personal communication, 97(4), 5277-5287.
17. **Al-Arashi, W. H.**, Shing, C. W. and Suandi, S. A. (2017). *RowAMD Distance: A Combined 2DPCA-Based Distance Computation with Texture-Based Technique for Face Recognition*. (TIIS), 11(11), 5474-5490.
18. AL-Arashi, W; Gumaan, M. S.; **Al-Arashi, W. H.**; Ahmed, A. (2021). *The Inner Universe Theory of Dark Energy Interpretation*. International Journal of Modern Theoretical Physics, 10 (1), 1-16.
19. Almawgani, A. H. M.; Alhawari, A. R. H.; Hindi, A. T.; **Al-Arashi, W. H.**; Al-Ashwal, A. Y. (2022). *Hybrid image steganography method using Lempel Ziv Welch and genetic algorithms for hiding confidential data*. Multidimensional Systems and Signal Processing, 33(2), 561-578.

PERSONAL INFORMATION

Name	Waled Husein Mohmmmed Al_Arashi
Date of Birth	9 th September 1979
Nationality	Yemeni
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Marital Status	Married
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REFERENCE

<p>Dr. Shahrel Azmin Suandi Professor of Electrical & Electronic Engineering, Dean of School of Electrical and Electronic Engineering, University Science Malaysia, Malaysia Tel: +604-599 5822 Mobile: +60194001143 E-mail: shahrel@usm.my</p>	<p>Dr. Mohammed Mohsen Al-Kawlani Associated Professor of Communication Engineering Head Dep. of Electronic Engineering University of Science and Technology Yemen, Sana'a, Yemen Mobile: +967 771996661 E-mail: m.alshadadi@googlemail.com</p>
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