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<http://almisreb.blogspot.my/>



CAREER GOAL

To begin my lecturer career at a highly-reputed and eminent educational university and to gain exceptional career move ahead through long efforts and performance regularity.



2016

EDUCATION

PhD in Electrical Engineering/Computer Engineering Dep. with-Faculty Excellent Research Award (Anugerah Penyelidik Cemerlang-APC)

Universiti Tekonlogi MARA (UiTM), Malaysia

Thesis: Consonants Recognition And Noise Reduction For Arabic Phonemes Based Malay Speakers.

2012

Master in Computer Science

Universiti Tekonlogi MARA (UiTM), Malaysia

Dissertation: Develop New Recognition System Based On The Human Ear.

2008

Bachelor in Information Engineering/ Computer Engineering Dep. (Hons)

Ittihad Private University, Syria

Final Year Project: Develop Iris Recognition System Using Neural Networks Based on MATLAB.

WORKING EXPERIENCE: for more: <http://almisreb.blogspot.my/>

- **Assistant Professor Dr.**, International University of Sarajevo (IUS), BiH, 21-09-2018-Present
- **Post-Doctoral Researcher-** Universiti Tenaga Nasional (UNITEN)- Malaysia. Satellite image processing, deep learning. 1/6/2017-20/09/2018.
- **Internet of Things&NAO Humanoid Robot** training, programming and developing STEM course-Robopreneur Sdn Bhd. 1 Jan 2016 – 10-Nov 2016. Details in appendix A.
- **Consultant** under the KPT grant, Faculty of Electrical & Electronics engineering, University Malaysia Pahang, Pekan, 17 November-17 December 2015.
- **Research Assistant**, Universiti Teknologi Mara, Electrical Engineering Faculty (2012-2015).
- **Lecturer** at Faculty of Computer Engineering, IPU-Syria (July 2008 – Nov 2009). Details in appendix B.

Skills:

- 1- Teaching. Research. Programming: C, C++, PYTHON, MATLAB
- 2- Artificial Intelligence, Deep Learning: TENSORFLOW, MATLAB, CNTK, WATSON
- 3- Image Processing, Signal Processing, STEM
- 4- Web Application Development-Fall 2018-IUS.
- 5- Operating Systems- Fall 2018-IUS.
- 6- Network Programming- Fall 2018-IUS.
- 7- Computer Architecture- Spring 2019-IUS.
- 8- Communication Systems and Networks-Spring 2019-IUS.
- 9- Database management-Spring 2019-IUS.
- 10- Advanced Computer Vision (Ms.c)-Spring 2019-IUS

ADDITIONAL INFORMATION

Availability : DD/MM/YYYY.

Expected Salary : 0000\$

Supervision

A. FYP

Fall 2018

1. Özgür Altinkaya, *Speaker Identification Using Deep Learning Techniques Based on Turkish Speakers*.
2. Emad Obaidat, *Text Detection and Recognition in images Using Deep Learning Algorithms*.

Spring 2019

1. Burak Durmaz, *Quality Assessment of Fruits and Vegetables Using Deep Learning Techniques*.
2. Oguzhan Yildiz, *Facial Recognition Using Deep Learning and Raspberry pi*.
3. Abdullah Pehlic, *Bosnian Food Recognition Using Deep Learning: IUS Canteen Case Study*.
4. Amer Hrnjic, *Plant Disease Identification Using Deep Learning Approaches*.
5. Senad Osmic, *Radar Track: a Mobile Application*.
6. Amna Sinanovic, *Deep Learning for Blossom Recognition*.

B. Masters

1. Omer Ahmetagic, *Deep Learning Digital Image Analysis And Detection Of The Counterfeited BAM Currency, expected on July 2019*.
-

SELECTED PUBLICATIONS/ PROCEEDINGS

1. Almisreb, A.A.; Tahir, N.M.; Samad, M, “*Pupil Localization Using Negative Function and the Four Neighbors*”, Computational Intelligence, Modelling and Simulation (CIMSIM), 2010 Second International Conference, 2010.
2. Almisreb, A.A.; Tahir, N.M.; Ismail, A.I.; Abdullah, R.,”*Enhancement pupil isolation method in iris recognition*”, System Engineering and Technology (ICSET), 2011 IEEE International Conference, ICSET, 2011.
3. Almisreb, A.A.; Jamil, N., “*Automated Ear Segmentation in Various Illumination Conditions*”, Signal Processing and its Applications (CSPA), 2012 IEEE 8th International Colloquium on, 2012.
4. Almisreb, A.A.; Tahir, N.M.,”*Enhancement of Iris Boundary Detection Based on Otsu Method*”, IEEE Symposium On Computers & Informatics, 2013.
5. Almisreb, A.A.; Ahmad Farid bin Abidin; Tahir, N.M., “*Arabic Letters Corpus Based Malay Speaker-Independent*”, 2013 International Conference on System Engineering and Technology (ICSET 2013).
6. Almisreb, A.A.; Jamil, N.; Tahir, N.M.,”*Enhancement of Ear Segmentation Approach Based on Graph Cut Method*”, 2013 IEEE Symposium on Industrial Electronics and Applications (ISIEA 2013).
7. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, “*Segmentation of Arabic Letters Signals Using Multiscale Principal Components Analysis and Zero-Crossing Rate Based Malay Speakers*”, *international Conference on control system, computing and engineering (ICCSCE2013)*.
8. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, “*Arabic Phonemes Recognition System for Malay Speakers using Neural Networks*”, *IEEE Symposium on Wireless Technology & applications*, 2014.
9. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir,” *Noise Effects on the Recognition Rate of Arabic Phonemes by Malay Speakers*”, *IEEE Symposium on Industrial Electronics and Applications*, 2014.

10. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, "Comparison of Speech Features for Arabic Phonemes Recognition System based Malay Speakers", *IEEE Conference on System, Process & Control*, 2014.
11. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, "Continuous Arabic alphabets Corpus Uttered by Malay speakers", *IEEE Conference on System, Process & Control*, 2014.
12. Jamil, Nursuriati, Ali AlMisreb, and Alfian Abdul Halin. "Illumination-invariant Ear Authentication." *Procedia Computer Science* 42 (2014): 271-278.
13. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, "Maxout Based Deep Neural Networks For Arabic Phonemes Recognition", 11th IEEE Colloquium on Signal Processing and its Applications, 2015.
14. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, "Investigation of Dynamic Time Warping and Neural Network for Arabic Phonemes Recognition Based Malay Speakers", 2015 International Conference on System Engineering and Technology, 2015.
15. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, "An Acoustic Investigation of Arabic Vowels Pronounced by Malay Speakers", *Journal of King Saud University-Computer and Information Sciences*, 2015.
16. Ezrinda Mohd Zaihidee, Kamarul Hawari Ghazali, Almisreb, A.A., "Comparison Of Human Segmentation Using Thermal And Color Image In Outdoor Environment", *IEEE Conference on System, Process & Control (ICSPC 2015)*, 18-20 December 2015.
17. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, "Acoustical Comparison between Voiced and Voiceless Arabic Phonemes of Malay Speakers", *International Conference on Control System, Computing and Engineering (ICCSCE 2015)*.
18. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, "ACOUSTIC ANALYSIS OF ARABIC PHONEMES BASED-/a:/ VOWEL", 12th IEEE Colloquium on Signal Processing and its Applications (CSPA 2016), 4-6 March 2016.
19. Almisreb, A. A., Jamil, N., & Din, N. M. (2018, March). *Utilizing AlexNet Deep Transfer Learning for Ear Recognition*. In 2018 Fourth International Conference on Information Retrieval and Knowledge Management (CAMP) (pp. 1-5). IEEE.
20. Almisreb, A. A., Tahir, N. M., Abidin, A. F., & Din, N. M. (2018, March). *Noise reduction approach for Arabic phonemes articulated by Malay speakers*. In 2018 IEEE 14th International Colloquium on Signal Processing & Its Applications (CSPA) (pp. 267-271). IEEE.
21. Ali Abd Almisreb, Sherzod Turaev, "Bosnian Currency Recognition Using Region Convolutional Neural Networks", INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING AND COMPUTER SCIENCE (ICECS 2019), 1-4 May, 2019, Sarajevo, Bosnia and Herzegovina
22. Bakir Brkic, Himzo Hasak, Omar Hassan, Lejla Hodzic, Ali Abd Almisreb, *A Short Survey on Mobile Operating Systems*, INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING AND COMPUTER SCIENCE (ICECS 2019), 1-4 May, 2019, Sarajevo, Bosnia and Herzegovina

PUBLICATIONS/ JOURNALS

1. Almisreb, A.A.; Jamil, N., Halin, A., A., "Illumination-invariant Ear Authentication", *Procedia Computer Science* 42:271-278 · December 2014.
2. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, "An Acoustic Investigation of Arabic Vowels Pronounced by Malay Speakers", *Journal of King Saud University-Computer and Information Sciences*, 2015.
3. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, Yasin, M., A., Che Abdulla, S. A., "Noise Reduction Approach for Arabic Phonemes Pronounced by Malay Speakers", *Journal of Engineering and Applied Sciences*, 2016.
4. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, Yasin, M., A., Che Abdulla, S. A., "Speech Enhancement based on 2D Gabor Filters for Arabic Phoneme Spoken by Malay Speakers", *Journal of Engineering and Applied Sciences*, 2016.

5. Almisreb, A.A., Abidin A.F., Nooritawati Md. Tahir, Yasin, M., A., Adnan, L. H., "Acoustical Comparison between /u/ and /u:/ Arabic Vowels Based non-Native Speakers", Journal of Engineering and Applied Sciences, 2016.
6. NorlianaKhamisan, KamarulHawariGhazali , A.A. Almisreb, Aufa Huda Muhammad Zin,"Condition Monitoring of Bearing Induction Motor fault Diagnostics by using Thermal Camera" Australian Journal of Basic and Applied Science (ISI/Thomson Reuters Web of Science/ERA)(online special issue) (ISSN: 1991-8178), 2016.
7. Sahak, Rohilah, et al. "*Human Gait Recognition Using Skeleton Joint Coordinates With Orthogonal Least Square and Locally Linear Embedded Techniques.*" International Journal of Simulation--Systems, Science & Technology 19.5 (2018).
8. Jamil, N., Almisreb, A. A., Ariffin, S. M. Z. S. Z., Md Din, N., & Hamzah, R. (2018). *Can convolution neural network (CNN) triumph in ear recognition of uniform illumination invariant?*. Indonesian Journal of Electrical Engineering and Computer Science, 11(2), 558-566.
9. Almisreb, A. A., Tahir, N. M., Abidin, A. F., & Din, N. M. (2018). *Acoustical comparison between/u/and/u:/Arabic vowels for non-native speakers.* Indonesian Journal of Electrical Engineering and Computer Science, 11(1), 1-8.
10. Khamisan, N., Ghazali, K. H., Almisreb, A., & Zin, A. H. M. (2018). *Histogram-based of Healthy and Unhealthy Bearing Monitoring in Induction Motor by Using Thermal Camera.* Journal of Telecommunication, Electronic and Computer Engineering (JTEC), 10(1-9), 31-35.
11. AA Norzeli, S.M., Ismail, I., Din, N.M., Ali, M.T., Saravani, S., Almisreb, " *Design of High Gain Microstrip Patch Reader Array Antenna with Parasitic Elements for UHF RFID Application*", International Journal of Engineering and Technology(UAE) 7 (4), 463-467, 2018.
12. Almisreb, A. A., Tahir, N. M., Abidin, A. F., & Din, N. M. (2018). *Speech enhancement based on 2D Gabor filters for Arabic phoneme spoken by Malay Speakers.* International Journal of Engineering and Technology (UAE), 7(4), 231-235.
13. Almisreb, A. A., & Din, N. M. (2018). *Automatic transmission towers detection in low-resolution satellite images.* Journal of Fundamental and Applied Sciences, 10(6S), 451-461.
14. Ali Abd Almisreb, Mohamed A. Saleh, *Transfer Learning Utilization for Banknote Recognition: a Comparative Study Based on Bosnian Currency*, Southeast Europe Journal of Soft Computing, Vol (8), No (1), March 2019.
15. Faris Fazlic, Seyed Ali Hashemi, Ahmed Aletic, Ali Abd Almisreb, Syamimi Mohd Norzeli, Norashidah Md Din, *A Survey On Security In Wireless Sensor Network*, Southeast Europe Journal of Soft Computing, Vol (8), No (1), March 2019.
16. Haris Ackar, Ali Abd Almisreb, Mohamed A. Saleh, *A Review on Image Enhancement Techniques*, Southeast Europe Journal of Soft Computing, Vol (8), No (1), March 2019.

PUBLICATIONS/ BOOKS

1. Almisreb, A.A.;Nooritawati M. T., "Happy Mathematics Learning with NAO", registered under the copyright number MyIPO-LY2016003089, 17-11-2016.

PROFESSIONAL TALKS / PARTICIPATIONS

1. Talk: *Biometrics, and its Application in Security.* Management and Science University (MSU) - Faculty of Information Science and Engineering,3-Feb-2016.
2. Talk: *Thermal Imaging and its applications in Landslide Prediction and Motor Bearing Fault Diagnostic.* Management and Science University (MSU)- Faculty of Information Science and Engineering, 30-March-2016.
3. Judge: in *School Category* at the 2016 IEEE-RAS International Robot PRIDE Competition, 24-25 September 2016, Ipoh, Malaysia.

4. **Judge:** in *University/Collage Category* at the 2016 IEEE-RAS International Robot PRIDE Competition, 24-25 September 2016, Ipoh, Malaysia.
5. **TV interview:**JurnalBernama: <http://almisreb.blogspot.my/2016/08/liputan-teknologi-robotik-di-malaysia.html>
6. **Newspaper Coverage:***Perkasa kejuruteraankimialonjakpenarafanuniversitiSelanjutnya* di : <http://www.bharian.com.my/node/183653>
7. **Newspaper Coverage:** *MenteriNasihatPelajarUsahSertaiPerhimpunan* di:<http://www.bernama.com/bernama/v8/bm/ge/newsgeneral.php?id=1273067>
8. **Judge:** FYP, Faculty Biomedical Engineering, Politeknik Shah Alam. Chief of Judges: in *Battle of Sumorobot & Industrial Automation TVET Conference (Industry 4.0)*, 23-24-May 2017, Putrajaya, Malaysia.

ACHIEVEMENTS & REWARDS

1. Gold medal, "Ear Biometric Identification Based On Natural Illumination Environment" IID FKE 2012, UiTM Shah Alam, Malaysia, 2012.
2. Gold Medal, "Ear Biometric Identification Based On Natural Illumination Environment" IIDEX 2013, UiTM Shah Alam, Malaysia, 2013.
3. Bronze Medal, "Ear Biometric Identification Based On Natural Illumination Environment with GUP", i-Idea 2013, Perlis, Malaysia, 2013.
4. Bronze Medal, "WHOSE EAR IS THIS? -A BIOMETRIC IDENTIFICATION", IIDJ 2013, Johor, Malaysia, 2013.
5. Bronze Medal, "Arabic Letters Recognition System for Malay Speakers", IIDJ 2013, Johor, Malaysia, 2013.
6. Bronze Medal, "Arabic letters Recognition System for Malay Speakers V2", IID FKE 2013, UiTM Shah Alam, Malaysia, 2013.
7. Bronze Medal, "Arabic letters Recognition System for Malay Speakers V3", IP-2013, UiTM Pulau Pinang, Malaysia, 2013.
8. Bronze Medal, "WHOSE EAR IS THIS? -A BIOMETRIC IDENTIFICATION", IP-2013, UiTM Pulau Pinang, Malaysia, 2013.
9. Silver Medal, "Arabic Constant Phonemes and vowels Recognition System for Malay Speakers", IID FKE 2014, UiTM Shah Alam, Malaysia, 2014.
10. Silver Medal, "Personal Identification System Based Lips Features", IID FKE 2014, UiTM Shah Alam, Malaysia, 2014.
11. Certificate of Best Presenter, *IEEE Conference on System, Process & Control*, 2014.

COPYRIGHTS & PATENTS

1. Arabic letters Recognition System for Malay Speakers, Copyright Number: MyIPO-**LY2013001013**.
2. Ear Biometric Identification Based on Natural Illumination Environment, Copyright Number: MyIPO-**LY2013001012**.
3. Arabic Consonant Phonemes and vowels Recognition System for Malay Speakers, Copyright Number: MyIPO-**LY2014002264**.
4. Personal Identification System Based Lips Features, Copyright Number: MyIPO-**LY2014002263**.
5. Happy Mathematics Learning with NAO, Copyright number MyIPO-**LY2016003089**.

Workshops

- Hands-on Deep learning using Matlab, Centaurus, Level 1, The Energy Sphere (Block BE), Universiti Tenaga Nasional (Putrajaya Campus), 4th-September-2018.

- Module 1: introduction to deep learning.
- Module 2: Transfer learning.
- Module 3: Semantic segmentation.
- Hands-on Deep learning using Matlab, Centaurus, Level 1, The Energy Sphere (Block BE), Universiti Tenaga Nasional (Putrajaya Campus), 18th-19th-September-2018.
 - Module 1: introduction to deep learning.
 - Module 2: Transfer learning.
 - Module 3: Semantic segmentation.
 - Deep learning with Python-Tensorflow applications
 - Introduction to object detection and recognition.
 - R-CNN.
 - Fast R-CNN.
 - Faster R-CNN.
 - Object detection and recognition with TensorFlow, Real-time Applications

REFERENCES

- **Professor Emeritus, Dr. Mehmet Can**
Engineering and Natural Sciences
International University of Sarajevo
Phone: +387 33 957 150
Email: mcan@ius.edu.ba
- **Prof. Dr. Kamarul Hawari Bin Ghazali**
Dean of FKEE (UMP)
Phone: +60 17-771 2224, Email: kamarul@ump.edu.my
- **Prof. Dr. Nooritawati Md. Tahir**
Director, Research Innovation Business Unit (RIBU), UiTM-MTDC Technopreneur Centre,
Universiti Teknologi MARA (UiTM)
Phone: 00603-5543 7908, Email: noori425@salam.uitm.edu.my
- **Assoc. Prof. Ir. Dr. Ahmad Farid Abidin**
Head, Centre for Electrical Power Engineering Studies.
Phone: +6-03-55436076
Email:ahmad924@salam.uitm.edu.my

LANGUAGES

- **SPOKEN** : Arabic, English, Bahasa Melayu, Mandarin (Basics)
- **WRITTEN**: Arabic, English, Bahasa Melayu

PROJECTS

- Landslide based thermal imaging.
- Bearing fault detection based thermal imaging.
- Implement programmable machine.
- Arabic letter recognition system using neural networks.
- Arabic letters recognition using existing databases.
- Personal identification system based lips features.

- Simulate and implement digital clock based on counters ICs.
-

RESEARCH AREA

- Iris Recognition/ Ear Recognition/ Lips Recognition/ Speech Recognition.
 - Pattern Recognition.
 - Acoustic Signal Processing.
 - Machine Learning using Deep Learning.
 - Applications based thermal imaging.
 - Robot NAO AI Programming, IBM Watson-Bluemix.
-

TRAINING ATTENDED

1. Sesi Saringan Pemilihan Peserta Pertandingan Pidato Antarabangsa Bahasa Melayu Piala Perdana Menteri 2016 (PABM 2016), Putrajaya, 25 February 2016.
 2. Sesi Saringan Pemilihan Peserta Pertandingan Pidato Antarabangsa Bahasa Melayu Piala Perdana Menteri 2015 (Pabm 2015), Putrajaya, 28 April 2015.
 3. Program Pemantapan Bahasa Melayu Pelajar Antarabangsa, Bahagian Pembangunan Mahasiswa, Jabatan Pendidikan Tinggi, Ancasa Residences Port Dickson, Negri Sembilan, 9-11 October 2015.
 4. Research strategy & literature review workshop 2011 “The backbone of research”, UiTM, February 2011.
 5. Biometrics summer school, USM, July 2010.
 6. Workshop on system identification with practical approach using Matlab, UiTM, June 2010.
-

Appendix A

I have delivered the following training programs.

A. NAO Robot, Usage and Fundamental Programming

Training Syllabus:

1. Introduction to NAO
 - NAO history and development
 - NAO in education and research
 - Overview on NAO applications and NAO Store Apps
2. NAO Robot Hardware (parts, sensors, degree of freedoms, etc.)
3. NAO Robot Software
 - Installation guide and how to start NAO programming
 - NAO network and communication
4. Overview of Choregraphe, Box library, Monitor
 - Use of Choregraphe, Box library and Monitor
 - Sample programming on Choregraphe
5. Operate NAO using Choregraphe
 - Task boxes in Choregraphe
 - Programming motion
6. Experience NAO
 - Text to speech
 - Game play with NAO
 - Face & voice recognition

7. Introduction to Python programming
 - - Programming structure
 - - Compilation method
 - - Task design
8. Advanced Programming exercise (Python)
9. NAO for academic: Teaching and learning

B. HUMANOID ROBOT NAO INTERACTIVE TRAINING COURSE: MACHINE VISION PROGRAMMING AND APPLICATIONS WITH PYTHON

Training Syllabus:

1. Introduction to Choregraphe and Python: installation and basic operations.
2. Face detection and tracking.
3. Video recording: configuration and processing.
4. Photo capturing: configuration and processing.
5. Color-based object tracking.
6. Image backlit detection.
7. Area darkness detection.
8. Land mark detection.
9. Movement detection.

C. BUILD SMARTER NAO ROBOT WITH BLUEMIX

Training Syllabus

1. Introduction to NAO and Choregraphe.
2. Create Bluemix app.
3. Install and configure Linux.
4. Install Winscp.
5. Push Bluemix app to the cloud.
6. Transfer coding files to NAO.
7. Configure and run NATS.
8. Configure and run NAO coding.
9. Configure and run Speech module.
10. Configure and run dialog module.

Appendix B

Teaching Details (2008-2009):

Within four semesters, I have involved in teaching several subjects. The teaching task has covered theoretical and lab classes (practical). Here is the list of the subjects.

1. Fundamental of Information Technology:
 - Full subject (Theory & Lab)
2. Programming Languages:
 - Visual Basic 6-Full subject (Theory & Lab)
 - Pascal- Lab classes
 - C/C++- Lab classes
3. Networking Course:

- Computer Networks (1)- Lab classes
- Computer Networks (2)- Lab classes
- 4. Digital Image Processing:
 - Full subject (Theory & Lab)
- 5. Signal Processing:
 - Lab classes
- 6. Electrical Circuits:
 - Lab classes
- 7. Digital Circuits:
 - Lab classes