

Curriculum Vitae

WALAA MOHAMMED HASSAN KHALAF

Mustansiriyah University – College of ENGINEERING
Mobile: +9647711141640
Email: WALAAKHALAF@YAHOO.COM

PERSONAL SUMMARY:

 Assistant Professor since 2014, Expert of Design and Implementation of Electronic Noses, and have some publications in Image Processing.

EDUCATION:

- Ph.D. #1: Ph.D. In Operational Researches-Italy 2009.
- M.Sc. #2: M.Sc. In Electronics and Telecommunications Engineering Science-Iraq 2001.
- B.Sc. #3: B.Sc. In Electrical Engineering Science-Iraq 1996.

ACADEMIC HONORS AND AWARDS:

- #1:
- #2:

ACADEMIC / TEACHING EXPERIENCE:

- #1:
- #2:

COURSES TAUGHT:

	Undergraduate	Graduate
1-	Advanced Engineering Mathematics.	1- Advanced Digital Signal Processing.
2-	System Security and Ciphering.	
	Digital Signal Processing.	
	Digital Logic Design.	
	Advanced Digital Logic Design.	

PROFESSIONAL AFFILIATIONS:

- Coordinator of Computer and Software Engineering Department 2013
- Head of Computer and Internet Section, 2014- till now.

PUPLICATIONS:

 Manlio Gaudioso, Walaa Khalaf, Calogero Pace, "SVM Classification in the Design of an Electronic Nose". 38th Annual Conference of Italian Operations Research Society, Genova-Italia, 5-8 September 2007.

- Manlio Gaudioso, Walaa Khalaf, Calogero Pace, "On the Use of the SVM Approach Analyzing an Electronic Nose". 7th International Conference on Hybrid Intelligent System (HIS 2007), Kaiserslautern-Germany, 17-19 September, 2007, IEEE Computer Society: 2007, pp. 42-46.
- Khalaf Walaa, Pace Calogero, Gaudioso Manlio, "Gas Detection via Machine Learning". PROCEEDINGS OF WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY, Cairo-Egypt, Feb. 6-8, 2008, Vol. 27, pp. 139-143.
- Khalaf Walaa, Pace Calogero, Gaudioso Manlio, "Gas Detection via Machine Learning". International Journal of Intelligent Technology, 2008, Vol. 3, n. 1, pp. 43-47.
- Khalaf Walaa, Pace Calogero, Gaudioso Manlio, "Least Square Regression Method for Estimating Gas Concentration in an Electronic Nose System". Sensors, 2009, Volume 9, no. 3, pp. 1678-1691.
- Khalaf Walaa, "Sensor Array System for Gases Identification and Quantification". Advanced Technologies, Chapter in Book, ISBN 978-953-307-017-9. By InTechWeb.org. (This Chapter is downloaded more than 3000 times till 24-09-2013).
- Khalaf Walaa, Giancarlo Raiconi, and Manlio Gaudioso. "An Analytical Model for Gas Detection and Concentration Estimate", submitted for publishing.
- Walaa Khalaf, Giancarlo Raiconi, and Manlio Gaudioso, "Design and Implementation of an Electronic Nose Based on Power-Law Model", Engineering and Development Journal, 2011, Volume 4, no. 15, pp. 77-86.
- Walaa Khalaf, "On the Use of Supervised Learning Method for Authorship Attribution", Eng. & Tech. Journal, Vol.30, No. 2, 2012, pp. 282-292.
- Calogero Pace, Walaa Khalaf, Mariangela latino, Nicola Donato, and Giovanni Neri, "E-Nose Development for Safety Monitoring Applications in Refinery Environment", Proc. Eurosensors XXVI, September 9-12, 2012, Kraków, Poland.
- Walaa Khalaf, Dhafer Zaghar, and Ayad Abdulkareem, "A Novel Approach to Design and Implementation of a Commercial Remote Control Image Acquisition System", 3rd International conference on CIRCUITS, SYSTEMS, CONTROL, SIGNALS (CSCS '12), Barcelona, Spain October 17-19, 2012.
- Walaa Khalaf, "Electronic Nose System for Safety Monitoring at Refineries", Journal of Engineering and Development, Vol. 16, No. 4, Dec. 2012, pp. 220-228.
- Walaa Khalaf, Manlio Gaudioso, and Annabella Astorino, "Edge detection by spherical separation", Computational Management Science, Vol. 11, No. 4, 2014, pp. 517-530.
- Walaa Khalaf, Mohammed Ali Tawfeeq, and Kadhum Al-Majdi, "Edge Detection Method Using Scaled Conjugate Gradient Training Algorithm in Backpropagation Neural Network", Eng. & Tech. Journal, Vol.32, No. 2, 2014, pp. 385-395.
- Calogero Pace, Letizia Fragomeni, Walaa Khalaf, "Developments and Applications of Electronic Nose Systems for Gas Mixtures Classification and Concentration Estimation", International Conference for Electronic Applications, Rome-Italy, 5-6 May 2014.
- SG. Leonardi, M. Cannistraro, E. Patti, D. Aloisio, N. Donato, G. Neri, C. Pace, M. Mazzeo, and W. Khalaf, "Development of Electronic-Nose Technologies for Biomedical Applications", Sensors and Microsystems, Springer International Publishing, 2014, pp. 475-478.

- W. Khalaf, A. Astorino, P. D'Alessandro, and M. gaudioso, "A DC optimization-ba Clustering Technique for edge Detection", Optimization Letters, 2016, pp. 1-14
- W. Khalaf, N. Hamed, and K. Al-Majdi, "A NOVEL EDGE DETECTION METHOD USING K-MEANS CLUSTERING", Journal of Engineering and Development, Under Publication.

PROFFESSIONAL DEVELOPMENT

- Certifications.
- Conferences.
- Workshops.