Curriculum vitae

Name: Ali Abdrhman M. Ukasha

Occupation: Professor

Address: Sebha University, Faculty of Engineering & Technology Sciences, Electrical & Electronics Engineering Department, Libya

Date of Birth: 1/1/1963

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Education:

2007	Ph.D. in Telecommunications Engineering from AGH University of Science and Technology, Cracov, Poland.
1998	M.Sc. degree in Telecommunication Engineering from Faculty of Electronics and Telecommunications, Poznan University of Technology, Poznan, Poland.
1986	B.Sc. degree in Electrical Engineering from Electrical Engineering Department, University of Garyounis, Benghazi, Libya.

Experiences:

2021	Book published: ''Practical Contour Compression Methods Using MATLAB'', KS Omniscriptum Publishing.
2016	Book published: ''Basics on Practical Contour/Image Compression Techniques Using Matlab, (Part I) Spatial & Spectral Domains: Contour Compression Methods'', LAMBERT LAP, Academic Publishing.
2015/2016	Head of Electrical and Electronics Engineering Department, Faculty of Engineering and Technology Sciences, Sebha University, libya.
2007	Assistance in authorship for one chapter of a book titled: Mobile Robots (Perception & Navigation)
2005/2006	Teaching of Image Compression Course using Matlab Programming at University of Computer Engineering & Telecommunications, Kielce, Poland.
1999 to now	Staff member at Faculty of Engineering and Technology Sciences, Sebha University.

1992 to 1995	Demonstrator in Electrical and Electronics Engineering Department, Faculty of Engineering, Sebha University.
1988 to 1992	Head of Technical Department of General Plastic Company, Sebha branch.
1986 to 1988	Site supervisor for construction of Electric power station at Sirte oil company.

Scientific activities:

No.	Name and Location	Type	Title
1	*WSEAS Int. Conf. on Electronics, Signal Processing and Control (ESPOCO 2005),* Copacabana, Rio de Janeiro, Brazil, April 25-27, 2005, pp.225-229.	Conference	Contour Compression Using Centroid Method
2	*WSEAS Int. Conf. on Signal, Speech and Signal Processing (SSIP 2005),* Corfu Island, Greece, August 17-19, 2005, pp.282-286.	Conference	A New Method for Contour Compression
3	*WSEAS Transactions on communications,* January 2006*.*	Journal	Fast Method for Contour Approximation and Compression
4	*International Conference on Multimedia, Signal processing and Communications,* Zadar, Croatia, 2006, pp. 41 – 44.	Conference	A New Method for Contour Extraction and Image Compression in Spectral Domain.
5	*International Symposium Computer and Information*	Conference	Contour Compression using Trapezoid method

	Sciences (IEEE/ISCIS), Istanbul, Turkey, October 27-29, 2008.		
6	*International Conference on Computer and Electrical Engineering (ICCEE 2008),* Phuket, Thailand, 2008.	Conference	Image Segmentation Technique Applied to Ultrasound Medical Images
7	*International Conference on Visualization, Imaging and Image Processing (IASTED/VIIP),* Cambridge, United Kingdom, pp. 213-218, 2009.	Conference	An efficient method of contour compression
8	*The 17th International Conference on Telecommuni-cations,* Dubai, UAE, pp. 941 - 945, 2010.	Conference	Myriad Based Esprit Antenna Array for Impulsive Wireless Channels
9	*International Conference on Signal Processing, Robotics and Automation (ISPRA'10),* Cambridge, United Kingdom, 336-341, 2010.	Conference	Arabic Letters Compression using New Algorithm of Trapezoid method
10	*Journal of Sebha University - Pure and Applied Science,* Vol. 9, No. 2, 2010.	Journal	New Approach of Contour Approximation
11	*20th International Conference on Electronics Communi-cations and Computers (CONIELECOMP),* Cholula, Mexico, pp. 48 – 52, 2010.	Conference	Turbo channel estimation and equalization of STBC-OFDM system over time-varying wireless channels
12	*The Third IASTED International Multi-Conference on Automation, Control, and Information Technology ACIT,*	Conference	Arabic Language Letters Contour Compression

	Novosibirsk, Russia, June, 2010.		
13	*The Fifth Libyan Arab International Conference On Electrical and Electronic Engineering,* Tripoli, Libya, pp. 675 – 695, October, 2010.	Conference	Expectation of short wave short link radio connections between North Africa Capitals for years 2011 – 2012
14	*The International Arab Conference On Information Technology (ACIT2010),* Benghazi, Libya, December, 2010.	Conference	Arabic and English Words Contour Compression using Trapezoid Method
15	*The International Conference on Pattern Recognition and Computer Vision (ICPRCV'2011),* pp. 747-752, Dubai, United Arab Emirates, January, 2011.	Conference	A New Method For Contour Approximation Using Basic Ramer Idea
16	*National Conference of Electric and Electronic Engineering (NCEEE'2012),* pp. 96-100, Batu Pahat, Johor, Malaysia, March, 2012.	Journal	Image Compression Technique using DCT, FFT Transform
17	*The 3rd Conference on Multimedia Computing and Systems (ICMCS'12),* pp. 307, Tangier, Morocco, May, 2012.	Conference	An Efficient Zonal Sampling Method for Contour Extraction and Image Compression using DCT Transform
18	*The 1st International Conference on Telecommunications and Remote Sensing (ICTRS'12),* pp. 99 – 104, Sofia, Bulgaria, August, 2012.	Conference	Gray-level Image Contours Extraction & Compression using Wavelet Transform

19	*The 6ᵗʰ WSEAS European Computing Conference (ECC'12),* pp. 210 – 215, Prague, Czech, September, 2012.	Conference	New Method for Contour Extraction & Compression Using Ramer Algorithm & Wavelet Transform
20	*The 3ʳᵈ International Conference on Applied Informatics and Computing Theory (AICT'12),* pp. 209 – 214, Barcelona, Spain, October, 2012.	Conference	New Algorithm of Contour Compression Using Spatial Domain Methods & Wavelet Transform
21	*International Conference on Artificial Intelligence and Image Processing (ICAIIP'2012),* pp. 225 – 229, Dubai, United Arab Emirates, October, 2012.	Conference	An Efficient Spatial Domain Methods & Wavelet Transform for Contour Compression
22	*International Conference on Electronics Engineering and Its Application (ICEEA'2012),* pp. 225 – 229, Manila, Philippines, November, 2012.	Conference	A New Efficient Methods for Contour Extraction & Compression
23	*International Conference on Mechanical, Electronics and Mechatronics Engineering (ICMEME'2013),* pp. 147-151, London, United Kingdom, June, 2013.	Conference	Contour Compression of Image Watermarking using DCT Transform & Ramer Method
24	*International Conference on Image Processing and Electronics Engineering (ICIPEE'2013),* pp. 124-128, Penang, Malaysia, August, 2013.	Conference	Contour Extraction & Compression from Watermarking Image using Discrete Wavelet Transform & Ramer Method

25	*The Fifth International Conference on Intelligent Systems, Modelling and Simulation (ISMS'2014),* pp. 295-300, Langkawi, Malaysia, January, 2014.	Conference	Adopting A Robust Watermarked Image Against Cyber Security Threats Using DCT and Ramer Method
26	*International Journal of Computer Science and Electronics Engineering (IJCSEE),* Volume 2, Issue 2, pp. 69-75, 2014. ISSN 2320–4028.	Journal (ISI Indexed)	High Quality Extracted Contour from Digital Image Watermarking using DCT & DWT Transforms
27	*International Journal of Computer and Information Engineering (IJCIE),* Volume 2, No. 1, 2015 waste .org /abstracts/ 14570	Journal	Bitplanes Image Encryption / Decryption Using Edge Map (SSPCE Method) and Arnold Transform
28	*International Journal of Computer and Information Engineering (IJCIE),* Volume 2, No. 1, 2015 waste .org /abstracts/ 16468	Journal	An Efficient Encryption Scheme Using DWT and Arnold Transforms
29	*International Journal of Computer and Information Engineering (IJCIE),* Volume 2, No. 3, 2015 waste .org /abstracts/ 18519	Journal	Color Image Compression / Encryption / Contour Extraction using 3L-DWT & SSPCE Method
30	*International Journal of Theoretical and Applied Information Technology (JATIT),* Volume 81, Issue 2, pp. 343-348, 2015. ISSN 1992-8645.	Journal	An Adaptive-Triangle Method for Binary Image Contour Data Approximation

31	*International Journal of Security and Its Applications, Vol. 10, No. 5 (May, 2016) pp.107-118.*	Journal	Digital Image Watermarking Based On Joint (DCT-DWT) and Arnold Transform
32	*3rd International Conference on Automation, Control, Engineering and Computer Science (ACECS'2016), pp. 11-16, Hammamet, Tunisia, March, 2016.*	Conference	Computerized System For Lung Nodule Detection in CT Scan Images by using Matlab
33	*The First Scientific Symposium Of Electrical And Electronic Engineering (EEES), Misurata, Libya, May - 2016.*	Symposium	An Efficient Methods Comparison for Arabic Words Contours Approximation
34	*LAP LAMBERT Academic Publishing, September 2016*	Book	Basics on Practical Contour & Image Compression Techniques Using MATLAB (Part I) Spatial & Spectral Domains: Contour Compression Methods
35	*1st Conference of Industrial Technology, The College of Industrial Technology (CIT), Misurata, Libya, May - 2017.*	Conference	خوارزمية فعالة لتشفير صورة ملونة اعتمادا على تحويلتي المويجة المنفصلة (DWT) و ارنولد (Arnold)
36	*International Conference on Mathematics and Information Technology (ICMIT 2017), ISBN (IEEE): 978-1-5386-3270-3. December 04 - 05, 2017 , Adrar, Algeria*	Conference	Security Improvement for Data Hiding using Arithmetic Coding and RSA Algorithm
37	*Libyan International Conference on Electrical Engineering and Technologies*	Conference	Chaff Points Encapsulation for Cancelable Fingerprint Features

	(LICEET2018), 3 – 7 March 2018, Tripoli - Libya		
38	*International Journal of Software Engineering & Intelligent Systems ISSN: 2518-8739 (Online) April 2018, Vol. 3 No.1*	Journal	CONTOUR EXTRACTION FOR MEDICAL IMAGES USING BIT-PLANE AND GRAY LEVEL DECOMPOSITION
39	*International Journal of Engineering Research and Applied Sciences (JERAS)* *5th Edition - May 2018, (Hoon – Libya), ISSN 2414-6515*	Journal	Study and Simulation of Digital Video Compression using Discrete Cosine Transform (DCT)
40	*International Journal of Engineering Research and Applied Sciences (JERAS)* *5th Edition - May 2018, (Hoon – Libya), ISSN 2414-6515*	Journal	High Security Encryption Of Gray-Level Image For Data Hiding Using RSA Technique
41	*International Journal of Software Engineering & Intelligent Systems ISSN: 2518-8739 (Online) August 2018, Vol. 3 No.2*	Journal	COMPUTERIZED SYSTEM DESIGN FOR THE DETECTION AND DIAGNOSIS OF LUNG NODULS IN CT IMAGES
42	*International Journal of Software Engineering & Intelligent Systems ISSN: 2518-8739 (Online) August 2018, Vol. 3 No.2*	Journal	BINARY IMAGE DATA COMPRESSION AND ENCRYPTION APPROACH USING ARITHMETIC CODING AND TRAPEZOID METHOD FOR CONTOUR APPROXIMATION
43	*First Conference for Engineering Sciences and Technology (CEST-2018), 25-*	Conference	Fast Efficient Transforms for Contour Extraction from Encrypted Medical Image

	27 September 2018, Garaboulli, Libya		
44	*First Conference for Engineering Sciences and Technology (CEST-2018), 25-27 September 2018, Garaboulli, Libya*	Conference	Fast Efficient Transforms for Contours Extraction and Image Compression using Zonal Sampling Methods
45	*Journal of Pure & Applied Sciences (JOPAS), Sebha University, Vol.18 No. 4, pp. 407-413, 2019*	Journal	تقنية فعالة لتحسين جودة حدود الصورة الثنائية المضغوطة للكلمات العربية ذات منحني واحد مقفل
46	*Journal of Pure & Applied Sciences (JOPAS), Sebha University, Vol.19 No. 5, pp. 55-59, 2020*	Journal	تقييم أدآء نظام إتصالات عبر مرحل متعدد المداخل والمخارج بإستخدام تقنية OFDM
47	*Journal of Pure & Applied Sciences (JOPAS), Sebha University, Vol.19 No. 5, pp. 23-32, 2020*	Journal	ضغط الصورة وإستخراج الحواف بإستخدام التحويلات السريعة عن طريق تحديد شكل عينات المنطقة المناسبة
48	*IEEE International Conference on Computing and Information Technology (ICCIT-1441), 9-10 September 2020, Tabuk, Kingdom of Saudi Arabia*	Conference	A Review: Spatial Domain Methods Comparison for Single Arabic Contours Approximation
49	*IEEE 4th International Conference of Saudi Computers Colleges (4th NCCC), 27-28 March 2021, Taif, Kingdom of Saudi Arabia*	Conference	A Review: Improvement of Segment Distance Ratio Method for Arabic Contour Data Approximation
50	*IEEE 1st Maghreb Meeting of the International conference on Sciences and Techniques of Automatic control and*	Conference	A Robust Color Image Watermarking Improvement Scheme Based on Image Normalization

	computer engineering, 25-27 May 2021, Tripoli, Libya		
51	*ICTACT JOURNAL ON COMMUNICATION TECHNOLOGY, VOLUME: 12, ISSUE: 02, pp. 2428-2433, JUNE 2021,*	Journal	VISIBLE WINDOW IMAGE RAY TRACING METHOD TO MODEL RADIO WAVE PROPAGATION IN FEMTOCELLULAR WIRELESS COMMUNICATION

Postgraduate level course taught:

1. Advanced Digital Image Processing.

2. Advanced Digital Communications.

Undergraduate level course taught:

1. Logic Circuits.

2. Digital Systems.

3. Communication Systems.

4. Digital Communications.

5. Fiber Optics Communications.

6. Digital Signal Processing I.

7. Digital Signal Processing II.

8. Digital Image Processing & Analysis.

9. Matlab Programming.

Supervision of Bsc. Degree:

1. Signal analysis using Wavelet Transform, 2001.

2. Image compression using Fourier, DCT and Wavelet Transforms, 2008.

3. Image compression using zonal sampling method, 2009.

4. Digital Watermarking Image in spatial domains, 2009.

5. Digital Watermarking Image in spectral domains, 2010.

6. Digital Watermarking Video Processing, 2010.

7. Speech signal compression using LPC algorithm, 2011.

8. Digital Watermarking Image Using Double Transform, 2015.

9. Performance Evaluation of Hybrid MIMO-OFDM System using Matlab® Simulink with Real Time Image Input, 2017.

10. Study and Compared of FBMC and F-OFDM Technologies Based on BER and PAPR, 2018.

(DD-SS) إرسال صورة رقمية باستخدام تقنية الطيف المنشور، 2018.

11. تخمين القناة اللاسلكية في نظام (OFDM) باستخدام التعديل (QAM) ، 2018 .

13. تصميم نموذج أولي لوحدة تحكم في الوصول باستخدام التعرف على الوجه، 2020.

14. استخراج العلامة المائية بجودة عالية لنظام إرسال واستقبال صورة ملونة مضغوطة، 2020.

Supervision of Msc. Degree:

Time Domain Contour Compression Methods and Investigation of Image Watermarking Techniques, Sebha University – Libya, 2017.

Co-supervision of Msc. Degree:

Computerized System For Lung Nodule Detection using Matlab, still working this year, Sebha University – Libya.

Co-supervision of PhD. Degree:

Enhanced Image Watermarking Techniques in Time and Frequency Domain with Contour Compression Methods, still working this year, Tun Hussein Onn Malaysia (UTHM), 2016.

Research Area:

1. Digital Signal / Image Processing.

2. Channel Coding Techniques.

3. Wavelets applications.

4. Digital Watermarked image Compression.

5. Contour Extraction & Compression in Spatial & Spectral Domains.

6. Speech Compression.

7. Medical Image Processing.

8. MIMO system enhancement.

Other Activities:

1. A member of the technical program committee in the international conference of the Signal, Image and Speech Processing (SISP) track of Mosharaka International Conference on Communications, Signals and Coding (MIC-SC2011).

2. A member of the International Scientific Committee and Editorial Review Board on Electronics and Communication Engineering, World Academy of Science, Engineering and Technology (WASET) organization, 2015.

3. Organizer of the higher studies program in Electrical and Electronics Engineering Department, Sebha University, Libya (2009 - 2013).

4. Head of the Electrical and Electronics Engineering Department (2015 - 2016).

5. Director of Quality Office at the Faculty (2017 - 2020).

6. Member of the Faculty Members Affairs Committee at Sebha University (2020 up to now).