

CURRICULUM VITAE

1- PERSONAL INFORMATIONS

Name : Ahmed Mohamed Abushaala.
Date of Birth : 07/07/1966.
Nationality : Libyan.
Marital Status : Married.

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Linkedin : <http://www.linkedin.com/in/ahmed-abushaala-864785332>



2- ACADEMIC QUALIFICATIONS

- Ph.D. in Electronics and Communications Department (Image Processing), 07/04/2004, Faculty of Electrical and Computer Engineering, State University of Campinas (Unicamp), Campinas, State of Sao Paulo (SP), Brazil.
- M.Sc. in Electronics and Communications Department (Data Compression), 24/06/1997, Faculty of Electrical and Computer Engineering, State University of Campinas (Unicamp), Campinas, State of Sao Paulo (SP), Brazil.
- B.Sc. in Computer Engineering, 1989, Faculty of Nuclear Engineering, Tripoli University (old name: Al-Fateh University), Tripoli, Libya.
- Secondary School: Al-wahda School, Misurata, Libya, 1978 – 1984.
- Primary School: Al-tahreer School, Misurata, Libya, 1972 – 1978.

3- POSITIONS

- Head of Computer Science Department at Faculty of Information Technology, Misurata University, Misurata, Libya, from 14/09/2023 till 01/09/2024.
- Head of Postgraduate Studies Office at Faculty of Information Technology, Misurata University, Misurata, Libya, from 05/2020 till 13/09/2023.
- Head of Postgraduate Studies Office at Faculty of Information Technology, Misurata University, Misurata, Libya, from 01/2017 till 30/09/2019.
- Dean of Faculty of Information Technology, Misurata University, Misurata, Libya, from 02/2013 till 15/05/2013.
- Head of Postgraduate Studies Office at Faculty of Information Technology, Misurata University, Misurata, Libya, from 03/2012 till 2013.
- Dean of Faculty of Information Technology, Misurata University, Misurata, Libya, from 2007 to end of 2010.

- The Representative of Faculty of Information Technology – Misurata University at Union Arabic Universities – Informatics and Computing Schools Association, AARU, Jordan, from 01/04/2010 to 03/11/2010.
- The Programme Leader of a joint M.Sc. Information Technology between Nottingham Trent University (NTU) and Misurata University from 2007 till 2013.
- The Programme Leader of a development of Study Programme (Courses, Syllabus,) of Faculties of Information Technology, Quality Assurance Office – Ministry of Education, Tripoli, Libya, from 25/07/2007 to 01/10/2010.
- The President of the Committee of Training on Information Technology for the Staff Members of the Faculties of the Universities on Misurata District, According to the UNESCO Project, Misurata, Libya, 13/07/2010 till 03/11/2010.
- The President of the Committee of Development of Study Programme for all Faculties of Information Technology at the Workshop Prepared by the Quality Assurance Office – Ministry of Education, Tripoli, Libya, 11-12/07/2007.
- Head of Computer Department, Higher Institute of Polyprofessionals, Misurata, Libya, from 1998 to 2000.

4- PROFESSIONAL EXPERIENCE

- Committee Member of the First International Conference on AI: Current Research, Industry Trends, and Innovations (FICAILY2025), Tripoli, Libya, 7-9/07/2025.
- Committee Member and a track chair of the Horizons of Information Technology Conference (HIT2024), Faculty of Information Technology, Misurata University, Libya, 29-30/06/2024.
- Consultant at the Libyan Academy for Telecom and Informatics (LATI), Misurata, Libya, from 01/08/2023 till 01/03/2024.
- Member of the Committee of Concerns of Staff Members at the University, Misurata University, Misurata, Libya, 04/2020 till 01/09/2020
- Member of the Committee of Concerns of Staff Members at the University, Misurata University, Misurata, Libya, 24/10/2018 till 31/07/2019.
- Member of the Committee of Concerns of Staff Members at the University, Misurata University, Misurata, Libya, 24/06/2015 till 09/2016.
- Supervisor of the report that got the first position on the Libyan innovation prize for IT in 12/2013, titled by: "Copyright Protection Using DCT Algorithm".
- Member of the Committee of Concerns of Staff Members at the University, Misurata University, Misurata, Libya, 18/12/2011 till 01/05/2014.
- Member of the Committee of Study of Database of the Human Resources and Education Departments Which belongs of the Informatics Centre on the Ministry of Education, Tripoli, Libya, 24/05/2010.
- Member of the Committee of National Information Technology Project Follow-up on the Ministry of Education, Tripoli, Libya, 22/11/2009.
- Member of the Committee of Study of the Contracts of the Software Packages of Student Registrar Offices for the Faculties of Misurata University, Misurata, Libya, 21/02/2008.

- Member of the Committee of Putting the Program of the Study for “Faculty of Information Technology”, Misurata University, Misurata, Libya, 08/05/2007.
- Member of the Committee of Preparing a Standard Exams in Computer Field for the Graduated Students of the Higher Institutes on Misurata District, Misurata, Libya, 07/11/2006.
- Member of the Committee of Establishing of “Faculty of Information Technology”, Misurata University, Misurata, Libya, 18/02/2006.
- Member of the directory of the “College of Industrial Technology- CIA ”, Misurata, Libya, from 15/03/1990 until 31/08/1991.
- Responsible Engineering in the Computer Aided Engineering (CAE) LAB. for design and produce plates of electronic circuits using the computer system, College of Industrial Technology- CIA, Misurata, Libya, from 18/03/1990 until 31/08/1990.
- Responsible Engineering in the General Electronics LAB. for the orientation of use the components and measurements to produce, construct and test the basic electronic circuits, College of Industrial Technology- CIA, Misurata, Libya, from 01/09/1990 until 31/01/1991.
- Responsible Engineering in the Industrial Electronics LAB. for the use of PLC Machine, College of Industrial Technology- CIA, Misurata, Libya, from 01/02/1991 until 31/05/1991.
- Responsible Engineering in the Microprocessor LAB. for the orientation of programming the microprocessors (INTEL 8080 and 8085) using “ASSEMBLY” and “BASIC” computer languages, College of Industrial Technology- CIA, Misurata, Libya, from 01/06/1990 until 31/08/1991.
- During the period in which I had working in the College of Industrial Technology- CIA I had working as assistant professor, also as particular professor given classes in operating system “DOS” and “BASIC, FORTRAN and PASCAL” computer languages.

5- TRAINING COURSES

- I had **taken** training course in ISM, DELL Company, under Lati Academy, Misurata – Libya, from 04/10/2023 to 11/10/2023.
- I had **taken** training course in Post-Crisis Journalism in Post-Crisis Libya, under PAgES project, La Sapienza University, Roma – Italy, from 04/06/2022 to 11/06/2022.
- I had **taken** training course in Digital Private Branch Exchange, Cairo – Egypt, from 22/07/2007 to 26/07/2007.
- I had **given** training course in Fundamentals on Computer Science, Academia of Postgraduate Studies – Institute of Human Resources Development, Tripoli, Libya, take place in Higher Poly-professionals Institute, from 20/08/2005 to 12/11/2005.
- I had **taken** training courses at the “College of Industrial Technology- CIA”, Misurata, Libya, as following:
 1. Operation and maintenance the electronic components and instruments in the General Electronics LAB., from 01/07/1990 to 08/07/1990.

2. Programming and operation the PLC Machine in Industrial Electronics LAB., from 01/12/1990 to 10/12/1990.
 3. Programming the microprocessors (INTEL 8080 and 8085) using Assembly and Basic computer languages in the Microprocessor LAB., from 25/04/1991 to 07/05/1991.
 4. Utilization the CAD System to design the components in the Computer Aided Design (CAD) LAB., from 15/07/1991 to 27/07/1991.
- I had **taken** training course in Introduction to Language C (unix) at the Computer Centre of Unicamp University, Campinas, SP, Brazil, from 11/09/1995 to 22/09/1995 (30 hours).

6- KNOWLEDGE IN INFORMATIC (SOFTWARES)

- Languages : BASIC, PASCAL, FORTRAN, C++, MatLab, PYTHON and ASSEMBLY.
- Operating System : SunOS, WindowsOS, and DOS.
- Environments : Windows, and OpenWindows (UNIX - SOLARIS).
- Equipment : Workstation, and PC's.
- Editors : Microsoft Word for Windows, and Latex.

7- M.Sc. SUPERVISSION

1. Abdulmajid Mukhtar Afat, Ahmed Mohamed Abushaala. "ON-LINE UNIVERSITY RESOURCES". April of 2009. Nottingham Trent University Associated with Misurata University. In Faculty of Information Technology, Misurata-Libya.
2. Hussein Khalil, Ahmed Mohamed Abushaala. "STUDENT ON-LINE REGISTRATION SYSTEM". April of 2009. Nottingham Trent University Associated with Misurata University. In Faculty of Information Technology, Misurata-Libya.
3. Hamdi Ramadan Milad, Ahmed Mohamed Abushaala. "THE POSSIBILITY OF IMPLEMENTING THE ELECTRONIC MANAGEMENT IN LIBYA – THE NATIONAL COMMERCIAL BANK IN MISURATA AS STUDY CASE". May of 2014. The Libyan Academy, Misurata-Libya.
4. Fatima Fathi Yahia, Ahmed Mohamed Abushaala. "DATA HIDING USING AFFINE HILL CIPHER COMBINED WITH HYBRID EDGE DETECTION AND LSB". Fall 2021. Faculty of Information Technology, Misurata University, Misurata-Libya.
5. Nesreen Mansour Elmontaser, Ahmed Mohamed Abushaala. "BRAIN TUMOR DETECTION AND CLASSIFICATION FOR MRI IMAGES BASED ON PCA AND SVM". Fall 2022. The Libyan Academy, Misurata-Libya.
6. Rema Muftah Algabaeli, Ahmed Mohamed Abushaala. "EXTRACTION ARABIC ENTITIES USING SVM IN MEDICAL DOMAIN". Spring 2023. Faculty of Information Technology, Misurata University, Misurata-Libya.
7. Areej Mokhtar Elgaier, Ahmed Mohamed Abushaala. "LSB IMAGE STEGANOGRAPHY USING HYBRID EDGE DETECTION OF CANNY AND LoG WITH HUFFMAN ENCODING". Spring 2024. The Libyan Academy, Misurata-Libya.
8. Aisha Muftah Egwella, Ahmed Mohamed Abushaala. "QUALITY PREDICTION FOR VEHICLES USING RANDOM FOREST ALGORITHM". Spring 2024. The Libyan Academy, Misurata-Libya.
9. Khadija Ahmed Al-darrat, Ahmed Mohamed Abushaala. "COPYRIGHT PROTECTION BASED ON HYBRID IMAGE WATERMARK (DCT) WITH AUDIO WATERMARK (EMD)". Spring 2024. Faculty of Information Technology, Misurata University, Misurata-Libya.

8- TECHNICAL REPORTS

- Ahmed Mohamed Abushaala, Yuzo Iano. “*JBIG Standard/ISO Norm: Utilization the Arithmetic Coding for Bi-level Image*”. **Telebrás (Telecommunication Brazil Company) Contract 387/90 - PT 03**, Digital Processing RT - 249, PUB. FEEC 020/96, Oct. of 1996, Campinas, SP, Brazil.
- Yuzo Iano, Ahmed Mohamed Abushaala, et al. “*System Evaluation - Line Research in Advance Audiovisuals Systems*”. **Telebrás (Telecommunication Brazil Company) Contract 387/90 - PT 03**, Digital Processing RT - 244, PUB. FEEC 13/96, April of 1996, Campinas, SP, Brazil.
- Yuzo Iano, Ahmed Mohamed Abushaala, et al. “*System Evaluation Programs - Basic and Specific Software - Line Research in Advance Audiovisuals Systems*”. **Telebrás (Telecommunication Brazil Company) Contract 387/90 - PT 03**, Digital Processing RT-246, PUB. FEEC 14/96, April of 1996, Campinas, SP, Brazil.

9- REALIZED WORKS IN CONFERENCES AND SYMPOSIUM

1. Yuzo Iano, Elhadi Ahmed Khalifa, **Ahmed** Mohamed Abushaala. “*Digital Television: HDTV / NTSC / PAL-M - A Review*”. In: **NIPO - BRAZILIAN SYMPOSIA OF SCIENCE AND TECHNOLOGIC**, 100, 1995, São Paulo. **Informatics and Telecommunications**. São Paulo - Brazil: Science Academia of Nikkeis Researches Brazilian Society of São Paulo State. Aug. of 1995. p. 185-202.
2. **Ahmed** Mohamed Abushaala, Elhadi Ahmed Khalifa, Yuzo Iano. “*Files Codification of Digital Facsimile of group 3 (G3)/CCITT*”. In: **ELECTRO'95: CHILEAN ELECTRICAL ENGINEERING CONGRESS**, XI, 1995, Punta Arenas. **Automization and Officious Processing**. Punta Arenas - CHILE: University of Magallanes (Universidad da Magallanes), Nov. of 1995. v. II, p. C-006 - C-010.
3. **Ahmed** Mohamed Abushaala, Elhadi Ahmed Khalifa, Yuzo Iano. “*Analysis of the Compatibility Between TV Conventional and HDTV Systems*”. In: **ELECTRO'95: CHILEAN ELECTRICAL ENGINEERING CONGRESS**, XI, 1995, Punta Arenas. **Communications Systems**. Punta Arenas - CHILE: University of Magallanes (Universidad da Magallanes), Nov. of 1995. v. II, p. I-030 - I-034.
4. **Ahmed** Mohamed Abushaala, Yuzo Iano. “*Considerations on the JBIG Standard: Is It a good choice for Brazilian Transmission System?*”. In: **INTERCON'96: INTERNATIONAL ELECTRONIC ENGINEERING CONFERENCE**, 3, 1996, Trujillo. **IEEE, Telecommunications Impact on Individual Productivity**. Trujillo - PERU: Antenor Orrego Private University, Aug. of 1996, p. 64-69.
5. **Ahmed** Mohamed Abushaala, Yuzo Iano. “*Software Development of the Adaptive Binary Arithmetic Coding of JBIG Standard of Bi-level Image Compression*”. In: **SIE'97: ELECTRICAL ENGINEERING SYMPOSIA**, VIII, 1997, Santa Clara. **Telecommunications and Electronics**. Santa Clara - Cuba: Central University of Las Villas (Universidad Central de Las Villas), Jun. of 1997.
6. **Ahmed** Mohamed Abushaala, Yuzo Iano. “*Implementation of Adaptive Binary Arithmetic Coding of JBIG Standard for Bi-level Image*”. In: **SBPN'97: SYMPOSIA OF THE 5th ANNUAL UNION OF NIKKEIS RESEARCHES BRAZILIAN SOCIETY**, 1997, Águas de Lindóia. **Culture and Science in the Globalization - New Paradigms**. Águas de Lindóia - São Paulo - Brazil: Majestic Hotel. Aug. of 1997. p. 122-128.

7. **Ahmed** Mohamed Abushaala, Yuzo Iano. "*Relevant Aspects of Data Compression for Two-Tone Image Based on JBIG Standard?*". In: **ICSPC'98: INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING AND COMMUNICATIONS**, 1998, Canary Islands. **IEEE, Fundamentals of Image Processing**. Canary Islands - SPAIN: University of Las Palmas of Gran Canaria, Feb. of 1998, p. 122 - 272.
8. Ayres M. A. Nascimento, Yuzo Iano, **Ahmed** M. Abushaala. "*A Scheme for Adaptive Discrete Cosine Transform Coding of Images*". In: **Science and Technology Magazine**, 2004, Campinas. **UNISAL**. Campinas – Brazil, VII, no. 11, Dec. of 2004, p. 19 - 29. ISSN 1677-9649.
9. Ayres M. A. Nascimento, Yuzo Iano, **Ahmed** M. Abushaala. "*Transformed Image Blocks: Search for Optimum Classification*". In: **Science and Technology Magazine**, 2005, Campinas. **UNISAL**. Campinas – Brazil, VIII, no. 12, June of 2005, p. 29 - 35. ISSN 1677-9649.
10. **Ahmed** Mohamed Abushaala. "*Lossless Compression Coding of Grayscale Images Using Bit-Planes*". In: **1st INTERNATIONAL CONFERENCE ON COMPUTER SCIENCES AND DIGITAL COMMUNICATION TECHNOLOGY**, 2007, Alwihat – Libya: Higher Institute of Polyprofessionals, 27, March of 2007.
11. **Ahmed** Mohamed Abushaala. "*Lossless Progressive Coding for Grayscale Images Using JBIG Standard*". In: **4th INTERNATIONAL CONFERENCE ON STATISTICAL SCIENCES**, 2008, Gujrat. **ISOSS**. Gujrat – Pakistan: University of Gujrat, May of 2008.
12. **Ahmed** Mohamed Abushaala. "*Progressive Coding of JBIG Standard for Grayscale Images Using Bit-plane Resolution Layers*". In: **ITC2008: THE NATIONAL CONFERENCE FOR INFORMATION TECHNOLOGY AND COMMUNICATIONS**, 2008, Tripoli. **The Libyan Holding Post, Telecommunications and Information Technology Company**. Tripoli – Libya, May of 2008, p. 39 - 45.
13. **Ahmed** Mohamed Abushaala. "*Progressive Coding of Color Images Using Arithmetic Coding Technique Based on JBIG Standard*". In: **3th NATIONAL CONFERENCE ON BASIC SCIENCES**, 2009, Gharian. Gharian – Libya: University of Al-jabal Al-gharbi, 25, April of 2009.
14. **Ahmed** Mohamed Abushaala. "*New Proposal for Progressive Coding of Colored Images Based on JBIG Standard*". In: **STA'2009: 10th INTERNATIONAL CONFERENCE ON SCIENCES AND TECHNIQUES OF AUTOMATIC CONTROL AND COMPUTER ENGINEERING**, 2009, Hammamet. **Automatic Control Unit (UCA), Industrial Processes Control Unit (UCPI)**. Hammamet – Tunisia: 20, Dec. of 2009.
15. **Ahmed** Mohamed Abushaala, Zaineb Ateia Moammer Elghoul. "*Copyright Protecting Using Visible Removable Watermarking*". In: **ICCS-12: 12th ISLAMIC COUNTRIES CONFERENCE ON STATISTICAL SCIENCES**, 2012, Qatar University-Doha. Doha – Qatar: 19-22 Dec. of 2012.
16. **Ahmed** Mohamed Abushaala, Elham Ali Abobaker. "*The Search for the Criminals using PCA Algorithm*". In: **ICCTIM2014: THE INTERNATIONAL CONFERENCE ON COMPUTER TECHNOLOGY AND INFORMATION MANAGEMENT**, 2014, Islamic Azad University, Academic City, Dubai, UAE, 09-11 April of 2014.

17. Ghassan Mahmoud Amer, **Ahmed** Mohamed Abushaala. "Edge Detection Methods". In: **IEEE WSWAN'2015: THE 2nd IEEE WORLD SYMPOSIUM on WEB APPLICATIONS and NETWORKING 2015**, 2015, Sousse. **Signal and Image Processing**. Sousse – Tunisia, 21 Mar. of 2015.
18. **Ahmed** M. Abushaala, Fatma Y. Baayou, Sumaia A. Eltomi, Zaineb M. Afat. "Applying Genetic Algorithm on Organization Business-oriented". In: **CIT2017: THE 1st CONFERENCE of INDUSTRIAL TECHNOLOGY**, 2017, Faculty of Industrial Technology, Misurata. Libya, 17-18 Mar. of 2017.
19. Fawzia M. Abujalala, Hajer R. Abulifa, **Ahmed** M. Abushaala. "Training a Support Vector Machine Classifier". In: **Academic Search Magazine**, 2018, Misurata-Libya, no. 12, June of 2018.
20. Fatima F. Yahia, **Ahmed** M. Abushaala. "Comparitive Study of Vector Space Model Techniques in Information Retrival for Arabic Language". In: **Tarbawia Magazine**, 2018, Elmergib University, 2018, Al-khums-Libya, no. 13, July of 2018. p. 340 - 344.
21. **Ahmed** M. Abushaala, Nadia M. Algoleep, Ziynab M. Kerwad. "Steganography a Message in the Image using Fractional Image Technique". In: **THE 2nd ANNUAL CONFERENCE on THEORIES and APPLICATIONS of BASIC and BIOSCIENCES**, 2018, Faculty of Science, Misurata University. **Information Technology**. Misurata – Libya: 01 Sep. of 2018.
22. Nesreen Mansour Elmontaser, **Ahmed** M. Abushaala. "Brain Tumor Detection in Real MRI Images Based on Otsu and K-means Cluster Algorithms". **Published in: International Science and Technology Journal (ISTJ)**, 21-23 Feb. 2022, Al-zawia-Libya. ISSN: 2519-9846. Stcrs.com.ly
23. Fatima F. Yahia, **Ahmed** M. Abushaala. "Cryptography using Affine Hill Cipher Combining with Hybrid Edge Detection (Canny-LoG) and LSB for Data Hiding". In: **2022 IEEE 2nd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA)**, 2022, Sabratha, Libya. 23-25 May 2022. (978-1-6654-7918-9/22/\$31.00 ©2022 IEEE | DOI: 10.1109/MI-STA54861.2022.9837714).
24. Rema Muftah Hamad, **Ahmed** M. Abushaala. "Medical Named Entity Recognition in Arabic Text using SVM". **Published in: 2023 IEEE 3rd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA)**, 2023, Benghazi, Libya. 21-23 May 2023. (979-8-3503-1989-7/23/\$31.00 ©2023 IEEE | DOI: 10.1109/MI-STA57575.2023.10169454).
25. Areej M. Elgaier, **Ahmed** M. Abushaala. "An Effect of Huffman Encoding with Hybrid Edge Detection in LSB Image Steganography". In: **2024 IEEE 4th International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA)**, 2024, Tripoli, Libya. 19-21 May 2024. pp.403–409. (979-8-3503-7263-2/24/\$31.00©2024 IEEE | DOI: 10.1109/MI-STA61267.2024.10599686).
26. Fatima F. Yahia, **Ahmed** M. Abushaala. "Cryptography and Steganography Based on Hybrid Edge Detection and LSB Comparing with Traditional LSB". In: **The International Journal of Engineering and Information Technology**, Vol. 12, No.1,

December 2024, Misurata, Libya. ISSN: 2410-4256. Paper ID: IT035.
www.ijeit.misuratau.edu.ly

27. Khadija Ahmed Al-darrat, **Ahmed** M. Abushaala. "Copyright Protection Based on Hybrid Image Watermark (DCT) with Audio Watermark (EMD)". In: ***The International Journal of Engineering and Information Technology***, Vol. 12, No.1, December 2024, Misurata, Libya. ISSN: 2410-4256. Paper ID: IT027. www.ijeit.misuratau.edu.ly

10- LANGUAGES

NAME	READ	SPEAK	WRITE
Arabic	excellent	excellent	excellent
English	good	good	Regular
Portuguese	good	good	Regular