

CURRICULUM VITAE

Personal Data:

Name: Prof. Hamza Abbass Ali Al-Sewadi

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1. Academic Qualifications (Degree):

- (1) Ph.D., Computer Engineering (Electronics), Electronic and Electrical Engineering Department, **King's College, University of London, UK**, 1977.
- (2) M.Sc., Electronics, Electronic and Electrical Engineering Department, **King's College, University of London, UK**, 1973.
- (3) B.Sc., Physics Department, College of Science, **University of Basrah, Iraq**, 1968.

2. Fields of Experience:

- (1) Currently, **Head of the Computer Technology Engineering Department, Iraq University College, Basrah, Iraq**,
- (2) **Professor**, Computer Science Department, Faculty of Information Technology, **Middle East University, Amman, Jordan**, From 1/9/2016 till 31/8/2019.
- (3) **Professor**, Computer Science Department, Faculty of King Hussein of Computing Sciences, **Prince Sumaya University for Technology, Amman, Jordan**, from 16/9/2015 till 31/8/2016.
- (4) **Professor**, Software Engineering Department, Faculty of Information Technology, **Isra University, Amman, Jordan**, from 17/9/2013 till 15/9/2015.
- (5) **Professor**, Computer Engineering Department, College of Engineering, **University of Basrah, Iraq**, from 1/10/2010 till 30/6/2013.
- (6) **Head** of the Software Engineering & Basic Science Departments, College of Science and Information Technology, **Isra University, Amman, Jordan**, from 17/9/2008 till 16/9/2010.
- (7) **Head** of the Software Engineering & Computer Information System Departments, College of Science and Information Technology, **Isra University, Amman, Jordan**, from 28/2/2006 till 16/9/2008.
- (8) **Professor**, Department of Software Engineering, College of Science and Information Technology, **Irsa University, Amman, Jordan**, from 1/3/2010 to 30/9/2010.
- (9) **Associate Professor**, Department of Software Engineering, College of Science and Information Technology, **Irsa University, Amman, Jordan**, from 18/9/2005 to 28/2/2010.
- (10) **Associate Professor**, Department of Computer Science, College of Science and Information Technology, **Zarka University, Jordan**, from 16/9/2001 to 17/9/2005.
- (11) **Visiting professor** at the Core and Information Technology Center (CITEC), **University of Aizu, Japan**, for the period from 28/6/2000 to 1/4/2001.
- (12) **Head** of the Computer Science Department, **Shatt Al-Arab University College, Basrah, Iraq**, for the period from 1/9/1996 to 10/6/2000, (in addition to other assignments bellow).

- (13) **Associate professor**, Computer Engineering Department, College of Engineering, **University of Basrah, Iraq**, for the period from 1/9/1997 to 24/9/1999.
- (14) **Associate professor**, Electrical Engineering Department, College of Engineering, **University of Basrah, Iraq**, for the period from 1/4/1993 to 31/8/1997.
- (15) **Lecturer**, Electrical Engineering Department, College of Engineering, **University of Basrah, Iraq**, for the period from 1/11/1977 to 31/3/1993.
- (16) **Director of the Computer center, University of Basrah, Iraq**, for the period from 8/12/1978 to 7/12/1989, [in addition to other assignments].
- (17) Managing a Private Institute for Computer services from January 1989 to June 2000, Specialized in training courses for computer programming and application skills as well as computer consultations both hardware and software. [Licensed from the Ministry of Education].

3. Teaching, Supervision:

Wide experience in teaching the following courses for undergraduate and postgraduate students in various universities:

(a) Undergraduate courses:

1. Technical Report Writing
2. Basic Information Systems
3. Software Quality Assurance,
4. Computer Design and Organization
5. Information System Security,
6. System Analysis, Database systems,
7. Artificial Intelligence,
8. Expert Systems,
9. Neural Networks,
10. Pattern Recognition,
11. Computer Organization and Architecture,
12. Logic Circuit Design,
13. Operation Systems (DOS, Office, Windows)
14. Discrete Mathematics,
15. Algorithmic Graph Theory,
16. Numerical Analysis,
17. Computer Network Security,
18. Digital Electronics,
19. Fundamentals of Computer Technology,
20. Algorithms and Structured Programming,
21. Various Programming Languages
22. Instrumentation and Measurements,
23. Physical Electronics
24. Basics of Information System.

(b) Postgraduate courses:

1. Advanced Distributed Systems and their Algorithms, *in Middle East University (MEU), Jordan* (2019)
2. Systems and Networks Security, *in Middle East University (MEU), Jordan* (2019)
3. Cryptography and Computer Security, *in Middle East University (MEU), Jordan* (2019)

4. Distributed Processing, in *Middle East University (MEU), Jordan* (2019)
5. Programming Language Design, in *Middle East University (MEU), Jordan* (2018)
6. Artificial Intelligence and Expert Systems, in *Middle East University (MEU), Jordan* (2018)
7. Advance Neural networks, , in *Middle East University (MEU), Jordan* (2017)
8. Advanced Computer Algorithms, in *Middle East University (MEU), Jordan* (2017&2018)
9. Advanced Cryptography, in *Princess Sumaya University for Technology (PSUT), Jordan* (2016)
10. Digital Image Processing, in *Princess Sumaya University for Technology (PSUT), Jordan* (2016)
11. Methodology of Scientific Research, in *Princess Sumaya University for Technology (PSUT), Jordan* (2015)
12. Quality Management and Auditing, in *Princess Sumaya University for Technology (PSUT), Jordan* (2015)
13. Applied Cryptography, in *Isra University (IU), Jordan* (2014).
14. Computer Networks and Internet, in *Basrah University, Iraq* (2012 and 2013).
15. Information System Security, in *Aizu University, Japan* (2000).
16. Advanced Electronics, in *Basrah University, Iraq* (1998).
17. Microprocessors and Microcomputers Design, in *Basrah University, Iraq* (1995)

(c) Postgraduate Students Supervision:

Many postgraduate students have completed their theses or dissertations under my supervision in the College of Science and the College of Engineering, University of Basrah, UB, (Iraq), and Princess Sumaya University for Technology, PSUT, (Jordan), including the following titles for postgraduate studies:

1. Image Analysis for Mandible Bone Properties on Cone-Beam CT to Detect Osteoporosis. Rasha Fathi Abomarar. Middle East University (MEU), Amman, Jordan (2019).
2. Improving AES Algorithm using Multiple Secret Keys. Suhair Haseeb Al-Waith. Middle East University (MEU), Amman, Jordan (2019).
3. Imperceptibility and Robustness Improvement using segmented DWT Watermarking Technique. Sura Abdulmunem.M.Al-juboori. Middle East University (MEU), Amman, Jordan (2019).
4. Enhancement of Digital Signature Scheme. Ruqa Abdulkareem Salih Al-shenawa. Middle East University (MEU), (2018).
5. Implementation of proposed light weight cryptosystem for use in Cloud Computing Security. Lubna Mutasem Al-Ramini. Middle East University (MEU), Amman, Jordan (2018).
6. Multiple Pseudo Random Number Generators Implementation for Watermarking Technique. Ayser Shamil Al-Saadi, Middle East University (MEU), Amman, Jordan (2017).
7. Computation Complexity Improvement for Digital Signature Algorithm, Mohammad Mustafa Rifaat, Middle East University (MEU), Amman, Jordan (2017).
8. An Improved Text Watermarking Algorithm for Color Images. Akram Nasir Al-Daghari, MEU, (2017).
9. AES Inspired Hex Symbol Scheme for Anti-Forensic Artifacts. Sumaya Mohammad Abu Asbeh, PSUT, Amman, Jordan (2016).
10. Implementing an Artificial Immune System for Anti-virus Detection, Duaa Hussain, Basrah University (BU), Iraq (2014).
11. Employing Neural Networks for Computer Security, Namareq Udai, BU, (2013).

12. Image watermarking through histogram analysis. Samaa Khamis, University of Basrah (BU), Iraq (2012).
13. An equivalent model as medium scale neocognitron-like brain model. Majid A. B. Mahmood, BU, (1999).
14. Investigation of RSA algorithms towards hybrid cryptosystems. Salah Yousif Radhi, UB, (1997).
15. Some improvements on the digital signature standard (NIST-DSS). Khaldun Arif, BU, (1997).
16. Software implementation of RSA public-key cipher for microcomputer data protection and authentication. Abdul-Muttalib Rashid, BU, (1992).
17. Wave propagation in infinite piezoelectric ceramic hollow cylinders with circumferential polarization. Hamid Wasfi Shuhti, BU, (1991).
18. Equivalent circuit consideration of PZT piezoelectric ceramic tensional wave disk transducer. Anwer Abdul-Jabar Al-Enizi, BU, (1987).

Moreover, hundreds of students have completed their undergraduate graduation projects under my supervision in Computer Engineering Computer Information Technology in College of Science, College of Engineering, (University of Basrah, Iraq), Faculty of Science and Information Technology, (Zarqa University and Isra University, Jordan).

5. Current interest and Research Field:

- 1- Computer Information and Network Security; Cryptography, Authentication, Discrete Algorithms and Digital Signatures.
- 2- Artificial Intelligence; Neural Networks Applications, Pattern Recognition, Arabic Character Recognition, Genetic algorithms.
- 3- Watermarking, Steganography and Image processing.

6. Publications:

(a) Journal Papers:

- (1) Adnan H. M. Al-Helali, Hamza A. Al-Sewadi, and Jamal S. Zaraqou, "A New Hybrid Multi-Focus Image-Fusion Using DMWT With FFT Transforms", International Journal of Advanced Computer Science & Applications (IJACSA), [Accepted, 16/4/2021]
- (2) Rasha F. Abu Marar, Diaa M. Uliyan, and Hamza A. Al-Sewadi, "Mandible Bone Osteoporosis Detection using Cone beam Computed Tomography", Engineering, Technology & Applied Science Research Vol. 10, No. 4, 2020, PP 6027-6033. <https://doi.org/10.48084/etasr.3637>
- (3) Mohammed A. F. Al-Husainy, **Hamza Abbass Al-Sewadi**, "Implementing Binary Search Tree Concept For Image Cryptography", International Journal of Advanced Science and Technology, Vol.130 (2019), pp.21-32, <http://dx.doi.org/10.33832/ijast.2019.130.03>
- (4) Mohammed A. F. Al-Husainy, **Hamza Abbass Al-Sewadi**, "Image Steganography Technique using Multilevel Hash Table", Journal of Engineering and Applied Sciences, Asian Research Publishing Network (ARPN), Vol. 14, No. 12, JUNE 2019 ISSN 1819-6608.
- (5) Mohammed A. F. Al-Husainy, **Hamza Abbass Al-Sewadi**, and Shadi Rasheed Masadeh, 2018, "Lightweight Cryptosystem for Image Encryption Using Auto-Generated Key", Medwell Journals, Journal of Engineering and Applied Science Vol. 13, No 17, PP7418-7425, ISSN: 1816-949X

- (6) Mohammed A. F. Al-Husainy, **Hamza Abbass Al-Sewadi**, 2018, "Full Capacity Image Steganography Using Seven-Segment Display Pattern as Secret Key", Journal of Computer Science Vol. 14, No.6, PP 753-763, DOI: 10.3844/jcssp.2018.753.763
- (7) **Hamza Abbass Al-Sewadi** and Mohammad M. Rifaat, "Reduced Time Complexity variant of Digital Signature Algorithm", Journal of Theoretical and Applied Information Technology (JATIT), Vol 96, No. 9, 2018, (SCOPUS).
- (8) Shadi Rasheed Masadeh, and **Hamza Abbass Al-Sewadi**, "Segmented Block Cipher Algorithm Based on ASCII-Codes Maneuver", Journal of Computer Science, Vol. 13, No. 12, PP 748-755. DOI: 10.3844/jcssp.2017.748.755, 2017, (SCOPUS).
- (9) Mohammed A. F. Al-Husainy, **Hamza A. A. Al-Sewadi**, "A Suggested Scheme For Image Cryptography Employing Genetic Algorithm", Journal of Theoretical and Applied Information Technology (JATIT), Vol.95. No 11, 2017, PP 2619-2626.
- (10) Adi A. Maaita, **Hamza A. A. Al Sewadi**, "A Multi-Threaded Symmetric Block Encryption Scheme Implementing PRNG for DES and AES Systems", International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 8, No. 2, 2017, PP 76-82.
- (11) Akram N. Aldakari, and **Hamza A. Al-Sewadi**, "A Secure and Efficient Method of Hiding-Extracting Secret Message", International Journal of Computer Science and Mobile Computing (IJCSMC), Vol. 6, Issue. 3, March 2017, PP 138-147.
- (12) Ayser Al-Saadi, and **Hamza A. Al-Sewadi**, "Embedding Algorithm Using Multiple Pseudo-Random Number Generator with LSB Technique", Accepted for publication in the Journal for the Baghdad University College for economical Science, to appear in 2017.
- (13) Somyia M. Abu Asbeh, **Hamza A. Al-Sewadi**, Sarah M. Hammoudeh, Arab M. Hammoudeh, "Hex Symbols Algorithm for Anti-Forensic Artifacts on Android Devices", International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 7, No. 4, 2016, PP 221-226.
- (14) Shadi Masadeh, **Hamza A. Al-Sewadi**, "A Novel Polygon Cipher Technique using Hybrid Key Scheme, "International Journal of Computer Science and Information Security (IJCSIS), Vol. 14 No. 4, April 2016, PP .
- (15) Shadi Masadeh, **Hamza A. Al-Sewadi**, and Mohamed A. Wadi, "A Novel Paradigm for Symmetric Cryptosystem" International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 7, No. 3, March 2016, PP 122-127.
- (16) Buthainah F. AL-Dulaimi, Nibras Amer Mohammed, **Hamza A. Al-Sewadi**, "An Enhanced Scheme for Hiding Text in Wave Files", IOSR Journal of Computer Engineering (IOSR-JCE), Vol. 18, Issue 1, Ver. I (Jan – Feb. 2016), PP 49-56.
- (17) Adi A. Maaita, **Hamza A. A. Al Sewadi**, Abdulameer K. Husain, and Osama M. Al-haj, "A cryptographically secure Multi-stage pseudo-random number generator", International Journal of Applied Research in Computer and Communication Engineering IJARCCE, Vol. 4, Issue 5, May 2015, DOI 10.17148/IJARCCE.2015.4503, PP 12-18.
- (18) Adi A. Maaita, Jamal Zraqou, Fadi M Harb, and **Hamza A. Al-Sewadi**, "A Generic Adaptive Multi-Gene-set Genetic Algorithm (AMGA)", International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 6, No. 5, 2015, PP 12-18.
- (19) **Hamza A. Al-Sewadi** and Duaa Jawad Hussain, "Computer Virus Detection Based on Artificial Immunity Concept", International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 3, Issue 2, March – April 2014, PP 68-74.
- (20) Adnan H. M. Ali, Waleed A. Mahmmoud, **Hamza A. Ali**, "Fast Personal Palm print Authentication based on 3D-Multi Wavelet Transformation", Transnational Journal of Science and Technology, Vol.2, No.8, September 2012.

- (21) **Hamza A. Ali** and Namareq Odey, "Black box Neuro-Identifier for RSA and AES Cryptosystems", Iraqi Journal for Information Technology, Vol. , No. , June 2012.
- (22) **Hamza A. Ali** and Sama'a A. K. khamis, "Robust Digital Image Watermarking Technique Based on Histogram Analysis", World of Computer Science and Information Technology Journal (WCSIT) ISSN: 2221-0741, Vol. 2, No. 5, 2012, PP163-168, 2012.
- (23) **Hamza A. Ali** and Sama'a A. K. Khamis, "Multi Image Watermarking Scheme Based on Intensity Analysis", International Journal of Research and Reviews in Information Sciences (IJRRIS) Vol. 2, No. 2, June 2012, ISSN: 2046-6439.
- (24) Buthainah Fahren Al-Dulaimi and **Hamza Abbass Ali**, "Object Oriented Methodology for Component Based Software Architectures", The International Journal of ACM Jordan (ISSN 2078-7952), Vol. 1, No. 1, 2010, PP: 9-17.
- (25) Waleed, A.J. Rasheed and **Hamza A. Ali**, "Cooperative Neural Network Generalization Model Incorporating Classification and Association", European Journal of Scientific Research, EJSR, Vol. 36, No. 4, 2009, PP: 639-648.
- (26) Al-Nsour Aymam, **Hamza A. Ali**, Buthainah Al-Dulaimi and Wisam H. Al-Sewadi, "A Computer Simulation Model for Automated Quantification of Luteinizing Hormone Secretion", Journal of Computer Science 5 (6): PP: 419-426, 2009. ISSN 1549-3636.
- (27) Waleed, A.J. Rasheed and **Hamza A. Ali**, "Publisher Identifier Scheme for Printed Documents Using Neural Networks", Asian Network for Scientific Information, Journal of Applied Science, Vol. 9, No. 18, 2009, PP: 3317-3325.
- (28) Adnan Hadi M. Al-Helali, **Hamza A. Ali**, Buthainah Al-Dulaimi, Dhia Alzubaydi and Waleed A. Mahmmod, "Slantlet Transform for Multispectral Image Fusion", Journal of Computer Science, Vol. 5, No. 4, 2009, PP: 263-269.
- (29) Waleed, A.J. Rasheed and **Hamza A. Ali**, "Generalization Aspect of Neural Networks on Upgrading Assimilation Structure into Accommodating Scheme", Journal of Computer Science, Vol. 5, No. 3, 2009, PP: 177-183.
- (30) Bashar M. Ne'ma and **Hamza A. Ali**, "Multi-Purpose Code Generation Using Fingerprint Images", International Arab Journal for Information Technology (IAJIT), Vol. 6, No. 4, Jordan (2009).
- (31) Adnan H. M. Al-Hilali and **Hamza A. Ali**, "An ECC-Based Authentication and Key Agreement Protocols for Virtual Class Security", AMSE Journal, AMSE advances in Computer Science and Statistics, Vol. 14, No. 2, France (2009), PP 27-40.
- (32) Adnan H. M. Al-Helali, Waleed A. Mahmmod, **Hamza A. Ali** and A. F. Fadhel, "Multispectral Image Fusion using Walidlet Transform", AMSE Journal, Signal Processing and Pattern Recognition, Vol. 52, No. 1, France (2009), PP 1-20.
- (33) **Hamza A. Ali**, " Back Propagation Neural Network Arabic Characters Classification Module Utilizing Microsoft Word", Journal of Computer Science Vol. 4, No. 9, 2008. PP: 744-751.
- (34) Buthainah Fahren Al-Dulaimi and **Hamza A. Ali**, "A Novel Genetic Algorithm Approach for Solving Flow Shop Problem" *IJCSNS* International Journal of Computer Science and Network Security, Vol. 8, No. 9, Sep. 2008, PP: 229-235.
- (35) **Hamza A. Ali** and Bashar M. Ne'ma, "Effective Variations on Opened GIF Format Images", *IJCSNS* International Journal of Computer Science and Network Security, Vol. 8, No. 5, May 2008. PP: 70-75.
- (36) **Hamza A. Ali**, Abdul Ameer K. Hussain and Salah K. Albermany, "Enhancing Key Protection by Frequent Election of key Distribution Center", Journal of inst. Or Mathematics. & Computer Sciences (Computer Science Series.), Vol. 19, No. 1, India (2008). PP: 26-41.

- (37) **Hamza A. Ali** and Hamed J Fawareh, "Maintenance Tool for Object-Oriented Programs Using Concepts Lattice", Journal of the Association of the Advancement of Modeling and Simulation Techniques in Enterprises, AMSE advances in Computer Science and Statistics), Vol. 11, No. 3, France (2006), PP: 1- 20.
- (38) Hamed J. Fawareh and **Hamza A. Ali**, "Concept Lattice Analysis for Object Oriented Class-Level Maintenance", Journal of inst. Or Mathematics. & Computer Sciences (Comp. Sc. Ser.), Vol. 16, No. 1, India (2005), PP: 97-110.
- (39) **حمزة عباس علي** وعبدالمير حسين وصلاح البرماني، "خوارزميات مقترحة للتوقيع الرقمي الأعمى في بيئة اتصالات جماعية مجلة أبحاث الحاسوب/ إتحاد مجالس البحث العلمي العربية (بغداد - العراق) ، العدد 2 لسنة 2003 ، صفحة 16-34.
- (40) **حمزة عباس علي** و ماجد عبد الباقي محمود، "نموذج مطور لتمييز الأرقام العربية المكتوبة يدوياً باستخدام الشبكات النيرونية"، مجلة أبحاث الحاسوب/ إتحاد مجالس البحث العلمي العربية (بغداد - العراق) ، العدد 1 لسنة 2003 ، صفحة 19-41.
- (41) **Hamza A. Ali** and Hamed J. Fawareh, "Tabulated Modular Exponentiation (TME) Algorithm for Enhancing RSA Public Key Encryption Speed", IAJIT Journal, Vol.1 No. 0, Jordan (2003), PP: 40-46.
- (42) **Hamza A. Ali** and Mikdam Al-Salami, "Timing Attack Prospect for RSA Cryptanalysts Using Genetic Algorithm Technique", IAJIT Journal, Vol.1 No. 1, Jordan (2004), PP: 81-85.
- (43) **Hamza A. Ali**, "Improved Verification Speed Enhancement for Digital Signature Using Discrete Algorithm Variant", Journal of the Association of the Advancement of Modeling and Simulation Techniques in Enterprises (AMSE), Signal Processing and Pattern Recognition, Vol. 47, No. 4, France (2004), PP: 17-27.
- (44) **Hamza A. Ali** and Majid A. B. Mahmood, "A Hybrid Neural Network Model for Character Recognition of Hand Written Numerals", Journal of the Association of the Advancement of Modeling and Simulation Techniques in Enterprises (AMSE), Signal Processing and Pattern Recognition, Vol. 45, No. 2, France (2002), PP: 53-67.
- (45) **Hamza A. Ali** and Hamid W. Shuhti, "Torsional wave propagation in infinite ceramic hollow cylinders", Journal of Engineering technology, Vol. 10, No.4, Iraq (1991).
- (46) **Hamza A. Ali** and Hamid W. Shuhti, "Guided torsional wave on hollow piezoelectric ceramic cylinders", Journal of the Association of the Advancement of Modeling and Simulation Techniques in Enterprises (AMSE), Vol.44, No. 3, France (1990).
- (47) **Hamza A. Ali** and Anwer A. Al-Inizi, "Equivalent circuit considerations of PZT ceramic torsional wave disk transducers", Journal of Electronic and computer research, Vol. 3, No.2, Iraq (1989).
- (48) **Hamza A. Ali**, "Computer aided design concepts", Computer Journal, NCC, Vol. 20, Iraq (1988).
- (49) **Hamza A. Ali**, "Supercomputers", Computer Journal, NCC. Vol. 19, Iraq (1988).
- (50) Hamza A. Ali, Gulam Haider and Raad Khair-Alla, "Computerized personal information query database system, INQ", Computer Journal, NCC. Vol. 14, Iraq (1984).
- (51) **Hamza A. Ali**, Gulam Haider and Raad Khair-Alla "Computer system evaluation Guidelines for buyers", Journal of the College of Science, University of Basrah, Vol. 10, Iraq (1983).
- (52) **Hamza A. Ali**, "New services for the Computer systems in universities", Computer Journal, NCC, Vol. 6, Iraq (1980).

(b) Conference Papers:

- (53) **Hamza A. A. Al-Sewadi**, Ruqa A. Al-Shnawa, and Mohammed M. Rifaat, "Signature Verification Time Reduction for GOST Digital Signature Algorithm", International Conference on Communications and Information Technology -- ICICT'21, Basra, IRAQ, 27th -28th June 2021, .78-1-6654-3914-5/21/\$31.00©2021 IEEE, PP279-283.
- (54) **Hamza A. A. Al-Sewadi**, Ruqa A. Al-Shnawa, and Mohammed M. Rifaat, "Enhanced GOST Digital Signature Variant, Academicsera – 533rd International Conference on Science, Technology, Engineering and Management (ICSTEM), Washington DC, 21-22 Sep. 2019.
- (55) Shadi Rasheed Masadeh, **Hamza Abbass Al-Sewadi**, and Mohammed A. F. Al-Husainy, "Embedded key Cryptosystem for Cloud Computing Applications", International Conference on Future Network and Distributed Systems, ICFNDS'2018 Conference, MEU, 26-27 June 2018, Amman, Jordan,
- (56) **Hamza A. A. Al-Sewadi** and Akram N. Aldakhari, "Improved Processing speed for Text Watermarking Algorithm in Color Images", 8th International Conference on Information System and Technology, ICIST'18", 16th -18th March 2018, Istanbul, Turkey, (ACM conference).
- (57) Adi A. Maaita, and **Hamza A. A. Al-Sewadi**, "Deterministic Random Number Generator Algorithm for Cryptosystem Keys", International Science Index, Proceeding of the XIII International Conference on Computer Science and Information Technology ICCSIT 2015 April 12-13 2015, Venice, Italy.
- (58) Adnan Hadi Mahdi A-Helali and **Hamza A. A. Al-Sewadi**, "A Novel Image Steganography Method Based On Mandelbrot Fractal", International Science Index, Proceeding of the XIII International Conference on Computer Science and Information Technology ICCSIT 2015 January 23-24 2015, Paris, France, PP 1410-1415.
- (59) **Hamza A. Ali Al-Sewadi**, Adnan Hadi M. Al_Helali, and Samaa A.K. Khamis, "A Hybrid Watermarking Model Based on Frequency of Occurrence", International Science Index, Proceeding of the XIII International Conference on Computer Science and Information Technology ICCSIT 2015 January 23-24 2015, Paris, France, PP 1416-1421.
- (60) **Hamza A. Ali** and Namareq Odey, "Fuzzy-Neuro Identifier Approach for Cryptographic System Emulation and Cryptanalysis", 2nd ScienceOne International Conference on Information Technology, ICIT2014, 21 – 23rd 2014 Dubai, UAE, (16 pages).
- (61) **Hamza A. Ali** and Sama'a A. K. khamis, "Robust Digital Image Watermarking Technique Based on Histogram Analysis", First National Scientific Conference for Computer Science and Technology, 7-8 March 2012, Basrah, Iraq, (13 pages).
- (62) Waleed A.J. Rasheed and **Hamza A. Ali**, "Parametric watermarking Based Ownership Judgment", Proceedings of the International Arab Conference on Information Technology (ACIT2012), Dec. 2012, Zarqa, Jordan, PP 84, (9 pages).
- (63) **Hamza A. Ali** and Waleed, A.J. Rasheed, "Dynamic Threshold Adjustment Approach for Neural Networks", Proceedings of the World Academy of Science, Engineering and Technology WASET, April 27-26 April 2011, Venice, Italy, PP 563-569.
- (64) **Hamza A. Ali** and Waleed, A.J. Rasheed, "Classifier/Recognizer Neural Network Implementation with Full Phase Dynamic Threshold Adjustment", Isra university and Baghdad University College for Economical Science Joint IT Symposium, 9 May 2010, Amman, Jordan, (14 pages).
- (65) Adnan H. M. Al-Helali and **Hamza A. Ali**, "Multispectral Image Fusion for Remote Sensing Applications", Proceeding of the First International Conference on Electronic Management, 1st – 4th June 2010, Tripoli, Libya, (16 pages).

- (66) **Hamza A. Ali** and Adnan H. M. Al-Helali, "User Identity Disguise for University Environment E-Learning System", Proceeding of the First International Conference on Electronic Management, 1st – 4th June 2010, Tripoli, Libya, (16 pages)
- (67) **Hamza A. Ali**, "Pseudo key Implementation for Multisignature", Conference on Communication and Information Technology Applications (CCITA 2010), 21st – 23rd Jan. 2010, Coimbatore, India, PP 173-178.
- (68) **Hamza A. Ali**, Adnan, H. M. Al-Helali and Ayman, Al-Nsour, "Virtual Security Based on Elliptic Curve Approach", Proceedings of the Arab Conference on Information Technology, ACIT'2008, 16th-18th December, Tunisia (2008), (8 pages).
- (69) Salah K. Albermani and **Hamza A. Ali**, "Developing Role-Based Access Control for Data Base Systems", Proceedings of the Arab Conference on Information Technology, ACIT'2008, 16th-18th December, Tunisia (2008).
- (70) Buthainah Fahren Al-Dulaimi and **Hamza A. Ali**, "Enhanced Traveling Salesman Problem Solving by Genetic Algorithm Technique (TSPGA)", Proceeding of the world Academy of Science, Engineering and Technology", Rome 25th -27th May 2008. PP 296-302.
- (71) Abdulameer Husain, Salah Albermany and **Hamza A. Ali**, "A New Direction – Forecasting Cryptographic Keys", Proceedings of the Arab Conference on Information Technology, ACIT'2004, 12th-15th December, Algeria (2004). PP 653-659.
- (72) **Hamza A. Ali**, "Enhance Multi-Signature Scheme", Proceedings of the Arab Conference on Information Technology, ACIT'2004, 12th-15th December, Algeria (2004). PP 648-652.
- (73) Abdulameer Husain, **Hamza A. Ali** and Salah Albermany,, "Context Blind Digital Signature Scheme Based on Message Partitioning", Proceedings of the Arab Conference on Information Technology, ACIT '2003, 20th -23th Dec., Egypt (2003). PP 646-651.
- (74) **Hamza A. Ali** and Rajab Natsha, "Neural Networks Tool for Arabic Script Classification", Proceedings of the Arab Conference on Information Technology, ACIT '2003, Egypt 20th - 23th Dec., Egypt (2003), PP: 285-297.
- (75) **Hamza A. Ali** and Mohammad Hamada, "Feature Contents Study of Arabic Numerals Towards Automatic Recognition Model using Combined Neural Network Technique", Proceedings of the ACIT '2002 conference, Qatar, 16th -19th Dec., Qatar (2002), PP 726-732.
- (76) **Hamza A. Ali** and Majid A. B. Mahmood, "Combined Neural Network, Neocognitron-Like Model for Character Recognition", Lectures on Modeling and Simulation, Paper Selected in Girona/Spain – June 25-27 (2002), Vol. 3, No. 1-2-3, PP 71-82.
- (77) **Hamza A. Ali** and Mohammad Hamada, "A Simulation of Hand Written Characters using Neural Networks Technique", Proceedings International Conference on Neural Networks and applications, (3rd WSES NNA), Feb., Switzerland (2002), PP 23-28.
- (78) **Hamza A. Ali**, "Discrete Algorithm Variant for Digital Signature", proceedings of the Fukushima and Shanghai International Symposium on Computer and Information Technology, University of Aizu, 6th -7th Nov., Japan (2000), PP 39-41.
- (79) **Hamza A. Ali**, "Computer Security", Invited talk, University of Aizu, 9 Aug. Japan (2000), Aizu-Wakamatsu, Fukushima, www.u-aizu.ac.jp.
- (80) **Hamza A. Ali**, "The Internet development and implementation", Annual specialized symposium, College of Eng., Univ. of Basrah, Iraq (1998).
- (81) **Hamza A. Ali** and Khaldoon Arif, "Shorter signature verification time with improved digital standard, DSS", 5th Iraqi computer science society conference, Iraq (1997).
- (82) **Hamza A. Ali**, "Acoustical wave guiding behavior of piezoelectric hollow rods", 2nd Basrah symposium for the mechanical Eng., Iraq (1993).

- (83) **Hamza A. Ali** and Abdul-Muttalib Rasheed, “Fast algorithm for RSA public-key cryptosystem”, 3rd National conference for computer, April, Iraq (1993).
- (84) **Hamza A. Ali**, “Mason’s like equivalent circuit for piezoelectric hollow disk torsional wave transducers”, 1st Basrah Electrical Engineering Symposium (BEES-92), Iraq (1992), PP 454-466.
- (85) **Hamza A. Ali** and Abdul-Muttalib Rasheed, “Modified RSA scheme for digital multi signature”, National conference for computer applications, Iraq (1991).

(c) Books:

- (86) Hamed J. Fawareh and **Hamza A. Ali**, "Modern Format for Project Documentation: Science and Technology", Al-Massira Publisher, Amman, Jordan (supported by Zarqa Private University), 2007.
- (87) **Hamza A. Ali**, "Introduction to digital Computer organization and programming", University of Mousil Press, Iraq (1985).
- (88) Dakhil H. Jrew and **Hamza A. Ali**, "Basic principle and practice of microcomputers", (translation), University of Basrah Press, Iraq (1983).
- (89) **Hamza A. Ali**, "Introduction to computer organization and programming", 2 volumes, (not published – for local competition), Iraq (1986).
- (90) Asim A. K. Azoz, Sabah M. Jumaa, **Hamza A. Ali** and Abdul Fattah H. Abid, "Introduction to Electronics", Textbook, University of Baghdad Press, Iraq (1987).
- (91) **Hamza A. Ali**, "Electronics laboratory handbook", University of Basrah Press, Iraq (1983).
- (92) **Hamza A. Ali**, “Ph.D. Thesis, “An investigation of piezoelectric torsional wave transducers for millisecond delay lines”, King’s College, London University, (1977).
- (93) **Hamza A. Ali**, M.Sc. Thesis, “Computer simulation for Propagation of piezoelectric wave helical delay line around cylinders” King’s College, London University, (1973).

(d) Keynote Speaker:

- (94) **Hamza Abbass Al-Sewadi**, “Cyber Crime & Information Privacy”, The 1st International Conference on Safety and Security of the Scientific Applications, College of Science, Al-Mustansiriyah University, Baghdad, Iraq, 26th -27th September, 2018.
- (95) **Hamza Abbass Al-Sewadi**, “Data Protection and Cyber Security”, International conference, Innovative (Eco-) Technology, Entrepreneurship and Regional Development”, Programme of the International Week “Going International”, Kauno Kolegija, University of Applied Sciences, Kaunas, Lithuania, 19th – 23th March, 2018.
- (96) **Hamza Abbass Al-Sewadi**, “The Internet development and implementation”, Annual specialized symposium, College of Eng., Univ. of Basrah, Iraq (1998).
- (97) **Hamza Abbass Al-Sewadi**, “Internet Era”, Basrah Port Conference, Basrah, Iraq, 1998.

7. Other Qualifications:

(a) Society memberships:

1. Member ACM, since 2009
2. Member of IEEE, USA, 1975 - 1980.
3. Member of IEE, UK, 1974 - 1980.

4. Member of Iraqi Society for Engineers, Iraq, since 1978.
5. Member of Iraqi Society for Computer Science, Iraq, since 1989.

(b) Training Courses:

Various training courses of which is the followings:

1. A course in Flash 5, (1 weeks), Zarka Private University, 2002.
2. A course in Rational software, (2 weeks), Zarka Private University, 2001.
3. Computer Data Security, (2 months), Budapest, Hungary, 1988.
4. Computer Center Manager Course, (2 months), NCC, Baghdad, Iraq, 1987.
5. Computer Linguistics, (2 weeks), Arab summer school, Rabat, Morocco, 1987.
6. Computer Applications in University Administration, (2 weeks), British Council, Belfast, Ireland, 1986.
7. Computer Center Services in University Environment, (2 weeks), University of Paul Sabatair, Toulouse, France, 1986.
8. Computer System Analysis and Design, (5 weeks), NEC Labs, Tokyo, Japan, 1984.
9. Advanced Data Base Management System, (4 weeks), NEC in Iraq, 1983.
10. Software System Engineering, (4 weeks), NEC in Iraq, 1983
11. Microprocessor and Microcomputers, (2 weeks), Arabic Summer School, Bludan, Syria, 1980.
12. International Electronics Symposium, (1 week), Eur, Italy, 1980.