

Loay Edwar George

Address: Baghdad University/ College of Science
Al-Jaderia - University Campus
Baghdad, Iraq.

Phone: +9647902234325

Email: loayedwar57@yahoo.com
loayedwar57@scbaghdad.edu.iq
loayedwar57@cs.uobaghdad.edu.iq



Web Sites:

https://www.researchgate.net/profile/Loay_George/info
<https://scholar.google.com/citations?user=LVgfNWIAAAAJ&hl=en>
<https://www.linkedin.com/in/loay-george-28848016>
<http://www.scopus.com/authid/detail.uri?authorId=35810114800>
<https://orcid.org/0000-0001-9028-0816>
http://isbn.directory/search/loay_e._george
<https://independent.academia.edu/LoayGeorge>
<http://www.amazon.com/Loay-George/e/B00L2EXGC2>
<https://www.abebooks.com/book-search/author/loay-e-george/>
https://www.amazon.com/s?ie=UTF8&page=1&rh=n%3A283155%2Cp_27%3ALoay%20E.George
<https://www.facebook.com/loay.george> <http://livedna.net/?dna=964.19208>

Academic Degree

- Ph.D. In Digital Image Processing, College of Science, Baghdad University, Baghdad, Iraq (1997). Thesis title is "*New Coding Methods for Compressing Remotely Sensed Images*".
- M. Sc. In Theoretical Physics, College of Science, Baghdad University, Baghdad, Iraq (1983). Dissertation title is "*The Calculation of Work Function and its Temperature Dependency Using Finite Step Model and Linear Potential Model*".
- B. Sc. in Physics, College of Science, Baghdad University, Baghdad, Iraq (1979).

Research Interests

- Digital video, image and audio compression techniques (transform coding, fractals, wavelet...).
- Information hiding in Multimedia (image, audio video).
- Biometrics for computer security applications (fingerprint, hand geometry, Palm, Iris, Retina).
- Computer Vision (including textural analysis, image classification and segmentation) for remote sensing and biomedical applications.
- Image retrieval systems.
- GIS and GPS applications.

Experience and Skills

1. Leadership in Education, Research and Development Fields

- Head of Computer Science Department (*Dec2010 – Sep2015*).
- Head of IT-Unit/ College of Science/ University of Baghdad (*Jan.2008 - Dec.2010*).
- IT Consultant in the headquarter of the Ministry of Higher Education and Scientific Research (*for 1 year*)
- Head of the Directorate of "Software Development and Systems Integration" in Al-Khawarezmi Company (*for 4 years*).
- Head of the directorate of "Research and Development" in Al-Khawarezmi company for specialized Software Industry (*for 4 years*).
- Head of the research group in the field of "Ionosphere and Geomagnetism", in the Space Research Center (*for 3 years*).

2. Professional Experience

- Teaching Staff Member at University of Baghdad, College of Science (*2006 - till now*).
- Member of Scientific Consultancy team for Iraqi National ID project (*2012-2013*).
- The technical Supervisor for the consultancy team of Iraqi ID national project (*2014-till now*).
- Member of Scientific Consultancy team for Electronic Registry System for Iraqi Traffic governance (*2012-till now*).
- Member (IT-expert) of Board of Governors (BOG) of Iraqi Stock exchange (*June 2005 – June 2011*).
- Ministry of Higher Education and Scientific Research (MOHE), Directorate of Research (*2004- 2005*).
- Ministry of Science and Technology, Directorate of Space and Flight Research, Simulation and Modeling Department (*2003- 2004*).
- Al-Khawarezmi Company, Directorate of Specialized Software Development and Systems Integration (*1998 - 2003*).
- Babylon Company for Specialized Software, Directorate of Research and Development (*1993-1998*).
- Space Research Center, Department of Space Technology (*1987 - 1993*).
- Scientific Research Council, Space and Astronomy Research Center (*1984 - 1987*).

3. Teaching and Post Graduates Supervision

A. University Lectures

Topic	College	University
Agent Technology	Science	Al-Nahrain
Computer Architecture	Science	Al-Nahrain, Sulaimani
Computer Graphics	Science	Al-Nahrain, Sulaimani, Baghdad

Computer Network	Science	Al-Nahrain
Computer Security	Science	Al-Nahrain, Sulaimania
Data Compression	Science	Institute of Higher Studies, Technology
Digital Image Processing	Science	Al-Nahrain, Baghdad, Sulaimania
Advance Data Structure	Science	Baghdad
Discrete Structure	Science	Al-Nahrain
Fractals	Science	Baghdad
Modeling & Simulation	Science	Al-Nahrain, Baghdad
Multimedia	Science	Al-Nahrain, Sulaimani, Baghdad
Network Security	Science	Sulaimani
Database Security	Science	Sulaimani
Multimedia Security	Science	Sulaimani
Pattern Recognition	Science	Al-Nahrain, Baghdad, Institute of Higher Studies, Sulaimani
Programming (C)	Science	Baghdad
Programming (Pascal)	Science	Baghdad
Programming Visual Basic	Science	Baghdad
Robotics	Science	Baghdad
Software Engineering	Science	Baghdad
Video & Audio Computation	Science	Al-Nahrain
Artificial Satellites & GPS	Science	Baghdad
Advance Mathematics	Science	Al-Nahrain, Baghdad
Celestial Mechanics	Science	Baghdad
GIS, Advance GIS	Science	Baghdad
Mathematics, Advance Math	Science	Baghdad
Statistical Mechanics	Science	Baghdad
Artificial Satellites	Science	Baghdad
Spatial Analysis Methodolgy	Science	Baghdad

B. Supervision

Ph.D	46	See Annex B	In the fields of image compression, pattern recognition, computer security, computer vision, remote sensing and computer security.
M.Sc	116	See Annex C	
Master Dissertations	11	See Annex D1	
Diploma Dissertation	10	See Annex D2	

4. Computer Skills

- Good background in computer programming and software development (Visual Basic, Delphi, Borland-C, C-Builder, FORTRAN, Pascal).
- Multimedia and image processing software tools.
- Microsoft Office tools (word, excel, visual basic, access and PowerPoint, FrontPage).
- Windows OS management, administration and customization.
- Developed different software applications, (e.g., auto-navigation system, simulators, optical mark recognition system, documentation & archiving systems, camera tracker).

5. Others

- Have experience in the design and implementation of software applications in the fields of:

- ▶ Image processing,
- ▶ Pattern recognition,
- ▶ Computer graphics,
- ▶ Remote sensing,
- ▶ Data transmission (telecommunication: telemetry and telecommand),
- ▶ Coding systems (ciphering, image and audio compression, and information hiding),
- ▶ GIS, GPS, Artificial Satellite Dynamics.
- ▶ Guiding systems based on GPS and image.
- ▶ Distributed Systems.
- Member in different Iraqi national committees for studying and planning the activities of computer resource management, computer security, software industry, and training and research programs in computer fields (Years: 2000- 2002).
- BOG Member (IT consultant) of Iraq stocks exchange (ISX), since July-2006 till now.
- Member of Arab Union of Physics and Mathematics.
- Member of Iraqi Association for Remote Sensing.
- Member of Iraqi Association for Computers.
- Member of examination committees for M.Sc. and Ph.D thesis.
- Technical supports and consultancy to
 - ▶ Ministry of Foreign Affairs, Directorate of Communication and Information Technology.
 - ▶ Ministry of Higher Education, Directorate of Researches and Studies, Computer Center.
 - ▶ Iraq Stock Exchange.
 - ▶ Ministry of Interior, Directorate of Traffic.
 - ▶ Kurdistan Ministry of Higher Education, Office of Student's Central Admission and Acceptance.
- Member of International Editorial Board of the "Journal of Applied Computer Science & Mathematics" (eISSN: 2066-3129, ISSN: 2066-4273).
- A member of Editorial Board in the Iraqi Journal of Applied Physics (<http://www.iasj.net/iasj?func=fulltext&ald=88316>) & (http://iraqiphysicsjournal.com/?page_id=23).
- Member of Consulting Scientific Bureau/ College of Science/ University of Baghdad/ at 2008 and 2011.

Scientific Publications

International	194	See Annex A (Section A1)
Local	62	See Annex C (Section A2)
Theses as Books	46	See Annex D (Section A3)

Annex-A

Scientific Publications

A1. International Research Publications

1. Mela G. Abdul-Haleem, [Dr. Loay E. George](#) and Dr. Ansam G. Abdul-Haleem, "A System for Rapid Localization and Intensity Evaluation of Saponins Accumulation in Plant Tissues", Journal of Theoretical and Applied Information Technology, Ongoing JATIT & LLS, ISSN: 1992-8645, E-ISSN: 1817-3195, Vol. 97, No.03, Pp. 1030-1040, February 2019.
<http://www.jatit.org/volumes/Vol97No3/27Vol97No3.pdf>
2. Mohammed I. Abd-almajid, [Loay E. George](#), and Kamal M. Abood, "A Proposed Method of Selecting Pairs of Sift Points", Journal of Theoretical and Applied Information Technology, Ongoing JATIT & LLS, ISSN: 1992-8645, E-ISSN: 1817-3195, Vol. 97. No. 03, Pp. 740-754, 15th February 2019.
<http://www.jatit.org/volumes/Vol97No3/4Vol97No3.pdf>
3. Mohammed I. Abd-almajid, [Loay E. George](#), Kamal M. Abood, "Rotation Estimation Between Two Images Using Feature Analysis", IJCSNS International Journal of Computer Science and Network Security, Vol.19, No.1, Pp. 22-27, January 2019.
http://paper.ijcsns.org/07_book/201901/20190103.pdf
4. Jameela Ali Alkrimia, Sherna Aziz Tomebb, [Loay E. George](#), "New Normal and Abnormal Red Blood Cells Features for Improved Classification", International Journal of Computer (IJC), © Global Society of Scientific Research and Researchers, ISSN 2307-4523 (Print & Online), Volume 32, No. 1, Pp. 1-8, January-2019.
<http://ijcjournal.org/index.php/InternationalJournalOfComputer/article/view/1339/524>
5. [Loay E. George](#) and Hend A. Hadi, "User Identification and Verification from a Pair of Simultaneous EEG Channels Using Transform Based Features", International Journal of Interactive Multimedia and Artificial Intelligence (IJIMAI) Journal, DOI: 10.9781/ijimai.2018.12.008, Pp. 1-9, January 2019.
6. Zainab J. Ahmed and [Dr. Loay E. George](#), "Fingerprints Identifications and Verification Based on Local Density Distribution with Rotation Compensation", Journal of Theoretical and Applied Information Technology (JATIT & LLS), Vol.96. No 24, Pp. 8313-8323, ISSN : 1992-8645, E-ISSN: 1817-3195, 31-December, 2018.
<http://www.jatit.org/volumes/Vol96No24/18Vol96No24.pdf>
7. Zahraa A. Hasan and [Loay E. George](#), "Speeding-up Fractal Audio Compression Using Selective Search Based on Proposed Affair Invariant Descriptors", Journal of Law and Society Management, Vol. 5, No.1, Pp. 95-103.
<http://nabujournals.com/web/96/article>.
8. Ahmed Hussain Ali, [Loay Edwar George](#), A. A. Zaidan, & Mohd Rosmadi Mokhtar, "High capacity, transparent and secure audio steganography model based on fractal coding and chaotic map in temporal domain", Multimedia Tools Appl. (2018). <https://doi.org/10.1007/s11042-018-6213-0>, Vol. 77, ISSN (print): 1380-750, online ISSN: 1573-7721, 07 June 2018.
<https://link.springer.com/article/10.1007/s11042-018-6213-0>

9. Enas Kh. Hassan, [Loay E. George](#), Faisal G. Mohammed; "Color Image Compression Based on DCT, Differential Pulse Coding Modulation, and Adaptive Shift Coding", Journal of Theoretical and Applied Information Technology; ISSN: 1992-8645, E-ISSN: 1817-3195; Vol. 96. No 11, Pp. 3160-3171 ;15th June 2018.
<http://www.jatit.org/volumes/Vol96No11/4Vol96No11.pdf>
10. Suhad Faisal Behadili, Cyrille Bertelle, [Loay E. George](#); "Modeling City Pulsation Via Mobile Data"; International Journal of Engineering Technologies and Management Research, DOI: 10.5281/zenodo.1250517, ISSN: 2454-1907, Vol. 5, Iss.4, Pp. 115-123, April 2018.
http://www.ijetmr.com/Articles/Vol5Iss4/14_IJETMR18_A05_387.pdf
11. [Dr. Loay E. George](#) & Ahmed Abdul Shakour, "ROI Extraction for Palmprint Using Local Thresholding, Region Growing and Geometrical Centroid Criterion", Ciência e Técnica Vitivinícola science and technology journal, ISSN: 0254-0223, Vol. 33, No 3, Pp. 63-69, 2018.
12. [Loay E. George](#), Hend A. Hadi, "Brainwaves for User Verification using Two Separate Sets of Features based on DCT and Wavelet", International Journal of Advanced Computer Science and Applications (IJACSA), DOI: 10.14569/IJACSA.2018.090133, Vol. 9, No. 1, Pp. 240-246, 2018.
http://thesai.org/Downloads/Volume9No1/Paper_33-Brainwaves_for_User_Verification.pdf
13. A Robust Image Watermarking Scheme for Images Captured by Mobile Cameras Using Haar Discrete Wavelet Transform, By: Jaafar S. Abed, Ali J. Dawood, and [Loay E. George](#), Journal of Engineering and Applied Sciences, DOI: 10.3923/jeasci.2017.8683.8688, Vol. 12, (Special Issue 9), Pp. 8683-8688, 2017.
<http://medwelljournals.com/abstract/?doi=jeasci.2017.8683.8688>
14. Hend A. Hadi , [Dr. Loay E. George](#), "EEG Based User Identification Methods Using Two Separate Sets of Features Based on DCT and Wavelet", Journal of Theoretical and Applied Information Technology (JATIT), ISSN: 1992-8645, eISSN: 1817-3195, Vol. 95, No. 22, Pp. 6116-6125, 30-November-2017.
15. Suhair H.S. Al-Kilidar & [Loay E. George](#), "Texture Recognition Using Co-Occurrence Matrix Features and Neural Network", Journal of Theoretical and Applied Information Technology (JATIT), ISSN: 1992-8645, E-ISSN: 1817-3195, Vol. 95, No. 21, Pp. 5949-5961, 15-Nov-2017.
<http://www.jatit.org/volumes/Vol95No21/29Vol95No21.pdf>
16. Suhair H. S. Al-Killidar, and [Loay E. George](#), "The Use of Run Length and Contrast Features with Neural Network for Texture Recognition", International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064, Paper ID: Art20176702, Vol. 6, Issue 9, Pp. 1537-1547. September-2017.
<https://www.ijer.net/archive/v6i9/ART20176702.pdf>
17. Zainab J. Ahmed and [Loay E. George](#), "Fingerprints Recognition Using the Local Energy Distribution over Haar Wavelet Subbands", International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064, Vol. 6, Issue 9, Pp. 979-986, September 2017. <https://www.ijer.net/archive/v6i9/ART20176794.pdf>
18. Asmaa Sadiq, [Loay Edwar](#), Ghazali Sulong, "Recovering the large gaps in Landsat 7 SLC-off imagery using weighted multiple linear regression (WMLR)", Arabian

- Journal of Geosciences, © Saudi Society for Geosciences 2017, doi.org/10.1007/s12517-017-3121-y, Print ISSN: 1866-7511, Online ISSN: 1866-7538, Vol. 10, Issue 18, Article 403, September 2017.
19. Hend A. Hadi and Dr. [Loay E. George](#), "EEG Based User Identification and Verification Using the Energy of Sliced DFT Spectra", International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064, DOI: 10.21275/ART20176484, Volume 6, Issue 9, Pp. 46-51, September 2017.
<https://www.ijsr.net/archive/v6i9/ART20176484.pdf>
 20. Dr. Iman Abduljabbar Saad, [Dr. Loay E. George](#), "Iris Verification Based on Spatial Distribution of the Local Average Gradient Density", International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE), ISSN (ONLINE): 2454-9762, ISSN (PRINT): 2454-9762, Vol. 3, Issue 7, Pp. 17-22, July-2017.
 21. Safa S. Abdul-Jabbar and [Loay E. George](#), "Fast Dictionary Construction using Data Structure and Numeration Methodology with Double Hashing", International Journal of Science and Research (IJSR), ISSN: 2319-7064, Paper ID: ART20173976, DOI: 10.21275/ART20173976, Vol. 6, Iss. 5, Pp. 2718-2725, May 2017.
<https://www.ijsr.net/archive/v6i5/ART20173976>.
 22. *Zainab Jawad Ahmed and Loay Edwar George, "Sprite Region Allocation Using Fast Static Sprite Area Detection Algorithm", Australian Journal of Basic and Applied Sciences, ISSN:1991-8178 EISSN: 2309-8414, Volume 11, Issue 7, Pp. 71-77, May-2017.*
 23. Ali H. Ahmed and [Loay E. George](#), "Color Image Compression Based on Wavelet, Differential Pulse Code Modulation and Quadtree Coding", Research Journal of Applied Sciences, Engineering and Technology, © 2017 Maxwell Scientific Publication Corp., ISSN: 2040-7459; e-ISSN: 2040-7467, Vol. 14, No. 2, DOI: 10.19026/rjaset.14.3992, Pp. 73-79, 2017.
<http://maxwellsci.com/msproof.php?doi=rjaset.14.3992>
 24. Suhaila N. Mohammed and [Loay E. George](#), "Emotion Recognition Based on Texture Analysis of Facial Expressions Using Wavelets Transform", Australian Journal of Basic and Applied Sciences, ISSN: 1991-8178 EISSN: 2309-8414, Vol. 11, No. 5, Pp. 1-11, 5-April-2017. <http://www.ajbasweb.com/old/ajbas/2017/April/1-11.pdf>
 25. Ahmed Hussain Ali, Mohd Rosmadi Mokhtar, [Loay Edwar George](#), "Enhancing the Hiding Capacity of Audio Steganography Based on Block Mapping", Journal of Theoretical and Applied Information Technology (JATIT), ISSN: 1992-8645, ISSN: 1992-8645, Vol.95. No 7, Pp. 1441-1448, 15th April 2017.
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 26. Suhad Faisal Behadili, Cyrille Bertelle, and [Loay E. George](#), "Adaptive Modeling of Urban Dynamics during Armada Event using CDRs", I.J. Information Technology and Computer Science, DOI: 10.5815/ijitcs.2017.01.01, 1, Vol. 9, No. 1, Pp. 1-8, 2017.
<http://www.mecs-press.org/ijitcs/ijitcs-v9-n1/IJITCS-V9-N1-1.pdf>
 27. Safa S. Abdul-Jabbar and [Dr. Loay E. George](#), "Building Words Dictionary List Using Symbol Enumeration and Hashing Methodology", Research Journal of

- Applied Sciences, Engineering and Technology, Vol. 13, No. 12, Pp. 885-894, DOI:10.19026/rjaset.13.3761, ISSN: 2040-7459; e-ISSN: 2040-7467, © 2016 Maxwell Scientific Publication Corp., 2016.
28. Shaymaa D. Ahmed, [Loay E. George](#) and Ban N. Dhannoon, "Image Compression Based on Cubic Bezier Interpolation, Wavelet Transform, Polynomial Approximation, Quadtree Coding and High Order Shift Encoding", Research Journal of Applied Sciences, Engineering & Technology, DOI:10.19026/rjaset.13.3343, ISSN: 2040-7459; e-ISSN: 2040-7467, (C) 2016 Maxwell Scientific Publication Corp., Vol. 13, Issue 9, Pp. 696-705, 2016.
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 29. Ahmed Hussain Ali, Mohd Rosmadi Mokhtat, & [Loay Edwar George](#), "Effect of Block Length on Audio Steganography Based on Fractal Coding", SOFTAM Postgraduate Symposium, Pp. 109-114, December-2016.
 30. Raad Ahmed Hadi, [Loay Edwar George](#), Mamon J. Mohammed, "A Computationally Economic Novel Approach for Real-Time Moving Multi-vehicle Detection and Tracking toward Efficient Traffic Surveillance", Arabian Journal for Science and Engineering, DOI: 10.1007/s13369-016-2351-8, ISSN: 1319-8025 (Print) 2191-4281 (Online), Pp. 1-16, November-2016. <http://link.springer.com/article/10.1007/s13369-016-2351-8>
 31. Ahmed Hussain Ali, Mohd Rosmadi Mokhtar and [Loay Edwar George](#), "Recent Approaches for VoIP Steganography", Indian Journal of Science and Technology, Vol. 9 (38), Pp. 1-5, DOI: 10.17485/ijst/2016/v9i38/101283, ISSN (Print): 0974-6846, ISSN (Online): 0974-5645, October 2016.
<http://www.indjst.org/index.php/indjst/article/view/101283/74220>
 32. Asmaa S. Abdul Jabar, Ghazali B. Sulong, [Loay E. George](#), Mohd Shafry, and Zinah S. Abduljabar, "Reconstruction the Missing Pixels for Landsat ETM+SLC-off Images Using Multiple Linear Regression Model", ARO-The Scientific Journal of Koya University, Article ID: ARO.10147, Volume IV, No. 2, Pp. 15-24 (10 pgs), DOI: 10.14500/aro.10147, 9-September-2016.
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 35. Suhad Faisal Behadili, Cyrillebertelle, and [Loay E. George](#), "Modeling of City Pulse Using Radius of Gyration via Mobile Data", Sixth International Conference on Communication Systems and Network Technologies (CSNT 2016), Held on 5-7 March 2016, in Chandigarh, Punjab, India, 2016.
 36. Ruaa E. Fadhil and [Loay E. George](#), "The Use of Spatial Distribution of the Local Histogram Based Features for Finger's Veins Biometrics", British Journal of

- Mathematics & Computer Science, Vol. 15, No. 4, Pp. 1-11, Article no.BJMCS.24729, DOI: 10.9734/BJMCS/2016/24729, ISSN: 2231-0851, 2016.
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37. Zainab J. Ahmed and [Loay E. George](#), "Block Matching Algorithm Using Mean and Low Order Moments", Research Journal of Applied Sciences, Engineering and Technology, Vol. 12, No. 4, Pp. 498-506, © 2016 Maxwell Scientific Publication Corp., DOI: 10.19026/rjaset.12.2390, ISSN: 2040-7459; e-ISSN: 2040-7467, 2016.
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<file:///C:/Users/IBM/Desktop/Mohammed1442015BJAST23090.pdf>
 39. [Mustafa M. Abd Zaid](#), [Loay E. George](#), [Ghadah Al-Khafaji](#), "Content-Based Cartoon Images Retrieval", International Journal of Computer Science and Mobile Computing (IJCSMC), Vol. 5, Issue 3, Pp. 124-139, ISSN: 2320-088X, March-2016.
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<http://www.maxwellsci.com/jp/mspabstract.php?jid=RJASET&doi=rjaset.12.2316>
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<http://www.worldscientificnews.com/wp-content/uploads/2015/10/WSN-28-2016-70-85.pdf>
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Annex-B

List of Ph.D Thesis

1. Ahmed H. Ali, "High capacity, transparent and secure audio steganography model based on fractal coding and chaotic map in temporal domain", Malasia,
2. Eman A. J. Saad, "Improvement of Iris Image Authentication using Moment Based Features", University of Technology/ Department of Computer Science, 2016.
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32. Najah R. Al-Jouda, "Network Monitoring and Threat Analysis Under Windows Operating System", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2006.
33. Shroouq S. Al-Janabi, "Building a VxD System for File Monitoring under Windows 9x", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2006.
34. Sahar A. Khadum, "A proposed Electronic Commerce Authentication System Based on Kerberos Protocol", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2005.
35. Zahraa F. Muhsen, "Image Compression Using Quadtree Partitioning with Wavelet Transform and Vector Quantization", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2005.
36. Alyaa H. Ali, "Clouds Height Classification Using Texture Analysis of Meteosat Images", Al-Nahrain University/ College of Science, 2004.
37. Raghad. S. Abd Alrazak, "Signature Recognition Using Wavelet Transform", University of Technology/ Department of Computer Science, 2004.
38. Ali K. Musa, "Watermark Applications in Color Images Using Wavelet Transforms", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2004.
39. Jamal M. Kadhim, "A proposed Low-Level Security System for Registry Tracing and Disk Cleaner", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2004.
40. Fadhil S. Abid, "Adaptive Fractal Image Compression", University of Technology/ Department of Applied Science, 2004.
41. Amal H. Abbas, "Astronomical Image Enhancement Using Color Transforms", University of Baghdad/ College of Science, 2003.
42. Khalid A. H. Al-Khannak, "Simplified Model for HF Radio Wave Propagation for Middle East Region", University of Baghdad/ College of Science, 2003.

43. Muna F. Al-Samaree, "Adaptive Wavelet Image Compression Using Space-Frequency Segmentation", University of Technology/ Department of Computer Science, 2002.
44. Bushra K. Al-Abudi, "Color Image Data Compression Using Multi-Level Block Truncation Coding Technique", University of Baghdad/ College of Science, 2002.
45. Walid A. Arhema, "The utilization of Multi Stage Classification Analysis for Identifying Objects in Satellites Images", Al-Mustansiriya University/ College of Administration/ Department of Statistics, 2002.
46. Abeer Matti Yousif, "Software Copy Protection Using Disk Key Based Method", University of Technology/ Department of Computer Science, 2002.
47. Jameela H. S. F. Harbi, "Image Compression Using Fractals", University of Baghdad/ College of Science, 2001.

Annex-C

List of M.Sc Thesis

1. Ahmed Abdul Shakoor, "Hand Palm Recognition and Authentication Using Local Spatial Distribution, College of Science, Department of Computer Science, December-2019.
2. Hend Abdul Amir, "The Use of EEG for Identification and Verification", University of Baghdad, College of Science, Department of Computer Science, June-2017.
3. Ali Hatem Ahmed, "Image Compressive Sharing System Using Transform Coding", University of Baghdad, College of Science, Department of Computer Science, June-2017.
4. Safa S. Abdul-Jabbar, "Fast String Searching Based on Multilevel Hashing", University of Baghdad, College of Science, Department of Computer Science, June-2017.
5. Ruaa Issam, "The Use Finger Veins for Verification and Authentication", University of Baghdad, College of Science, Department of Computer Science, March-2016.
6. Saba Ayad, "The Blood Retina Vessels Recognition System", University of Baghdad, College of Science, Department of Computer Science, February-2016.
7. Suhaila Najim Mohammed, "Emotion Detection Using Facial Image Based on Geometric Attributes", University of Baghdad, College of Science, Department of Computer Science, February-2016.
8. Yasmin Alaa Hassan, "Music Information Retrieval Using Transform Coding", University of Baghdad, College of Science, Department of Computer Science, 2015.
9. Zainab Jawad Qassam, "Selective Watermarking Based on Interframe Coding and Mean Modulation for Sprite Blocks", College of Science, Department of Computer Science, 2015.

10. Zainab Taleb Drweesh, "Compressive Audio Blakley Secret Sharing Using Transform Coding", Baghdad University, College of Science, Department of Computer Science, 2015.
11. Saja Taha Ahmed, "SMS Encryption Using RC4 with Dynamic Key on Android", Baghdad University, College of Science, Department of Computer Science, 2014.
12. Dalia N. Abdul-Wadood, "Detection and Localization of Skin Cancer Based on Texture Analysis", Baghdad University, College of Science, Department of Computer Science, 2014.
13. Rawaa Abdul Jabbar Mohammed, "Enhanced Affain Transform Based Method for Satellite Images Registration", Baghdad University, College of Engineering, Department of Survey Engineering, 2014.
14. Asmaa Mohammed Jawad Abbas, "Palm Recognition and Verification System", Baghdad University, College of Science, Department of Computer Science, 2014.
15. Mohammed Baqer, "Android-Based Trusty Patient Monitoring System", Baghdad University, College of Science, Department of Computer Science, 2014.
16. Yusra A. Sroor, "Malignant and Premalignant Cells Detection in Cervical Smears", Baghdad University, College of Science, Department of Computer Science, 2013.
Published as a book in Lambert Academic Publishing, ISBN: 3-659-18593-0, ISBN-13:9783659185939
17. Ahmed Abdul Muhsin Abdul Hameed, "Localization and Identification of Malignant White Blood Cell", Baghdad University, College of Science, Department of Computer Science, 2013.
18. Azhaar Khanger Bedan, "Speeding-up Fractal Audio Compression Using Tiling and Complementary Moments", Baghdad University, College of Science, Department of Computer Science, 2013.
19. Marwa Sabah Mahdi, "Simulation of Dose Build Up Factor of Gamma Ray Including Annihilation Radiation for Aluminum, Iron and Lead", Department of Physics, Al-Nahrain University.
20. Mela Ghazi Abdul Haleem, "A Spatial Invariant Model for Local Attributes of Fingerprint Ridges", Baghdad University, College of Science, Department of Computer Science, 2013.
21. Mamon Jasim Mohammed, "Car Guiding System Using Web Camera and GPS", Baghdad University, College of Science, Department of Computer Science, 2013.
22. Nada Najeel Kamal, "Iraqi License Plate Recognition System", Baghdad University, College of Science, Department of Computer Science, 2013.
23. Ibrahim A. Hameed, "Text Based Information Retrieval System Using Fuzzy Logic", Baghdad University, College of Science, Department of Computer Science, 2011.
24. Mahmoud H. Farhan, "Fingerprint Recognition Using Fractal Features", Al-Anbar University, College of Computer, 2011.
25. Najma D. Dhaher, "Texture Recognition Using Density Distribution Features", Al-Nahrain University/ College of Science, 2011.

26. Zaid H. Alebadi, "Personal Assistant Email Agent", Al-Nahrain University/ College of Science, 2010.
27. Haydex Kadhim, "An Internet Based Model for Students Submission to Iraqi Universities", Al-Nahrain University/ College of Science, 2010.
28. Muhannad A. M. Al- Obaidi, "Computer Aided Design System for Distributing Towers of Mobile Network", Al-Anbar University/ College of Computer, 2010.
29. Nadia Fadhil, "Improving the Security of HTML Files", Al-Nahrain University/ College of Science, 2010.
30. Taha Sedik, "Frequency Planning Algorithms for GSM networks", University of Sulaimani/ College of Science, 2009.
31. Saud Kakil, "Image in Image Hiding System Using Affain Transform", University of Sulaimani/ College of Science, 2009.
32. Nevart Elias, "Speeding Up Fractal Image Compression Using Two DCT Descriptors", University of Sulaimani/ College of Science, 2009.
33. Noura Qusay, "Audio Hiding System Using Wavelet and Discrete Cosine Transform", Al-Nahrain University/ College of Science, 2009.
34. Israa Mohammed, "Breast Cancer Tissue Recognition System Using Fractal Dimension & Neural Network", Sulaimani University/ College of Science, 2009.
35. Jazeel H. Aziz, "An Improved Method for determination of Airplane Radial Velocity Using Doppler Shift", Al-Nahrain University/ College of Science, 2009.
36. Hadeel Hatem, "Breast Cancer Tissue Recognition System Using Fuzzy Logic", Al-Nahrain University/ College of Science, 2009.
37. Hasnaa Emad, "Content Based Image Retrieval System using Textural Features and Fuzzy Logic", Al-Nahrain University/ College of Science, 2009.
38. Aunss Sinan, "Hand Palm Recognition Using Wavelet Transform", Al-Nahrain University/ College of Science, 2008.
39. Roaa A. Al-Ani, "Speeding up FIC using Symmetry Predictor", Al-Nahrain University/ College of Science, 2008.
40. Mohammed K. Al-Qaisy, "Image in Image Hiding System Using Affine Transform", Al-Nahrain University/ College of Science, 2008.
41. Sara A. Mahmood, "Using DCT to Compress the Wavelet Approximation Coefficients", Al-Nahrain University/ College of Science, 2008.
42. Noor A. Hussain, "Audio De-Noising Using Wavelet Transform", Al-Nahrain University, College of Science, 2008.
43. Zainab H. Ameen, "Network Security Based on Packet Filtering", Al-Nahrain University/ College of Science, 2008.
44. Aree A. Mohammed, "Intrusion Detection System Based on Packets Filtering", University of Sulaimani/ College of Science, 2007.
45. Rawya Faek, "Intra-Inter Video Frame Coding Based on Wavelet Transform", Al-Nahrain University/ College of Science, 2007.

46. Wasseem M. Aziz, "Speeding Up Audio Fractal Compression Using DCT Descriptors", Al-Nahrain University/ College of Science, 2007.
47. Ayman M. Hamid, "Electronic Visa System", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2007.
48. Haider Majeed, "Network Management System for Public Services", Al-Nahrain University/ College of Science, 2007.
49. Hiba M. Salim, "Low Rate Hiding in Audio Data Using Phase Domain", Al-Nahrain University/ College of Science, 2007.
50. Nooruldeen Nasih Qader, "Design and Implementation Multilevel Security for Database", University of Sulaimani/ College of Science, 2007.
51. Hind A. H. Al-Kitt, "Video Data Mining Using Color and Textural Features Analysis", Al-Nahrain University/ College of Science, 2006.
52. Mustafa M. H. El-Tahafi, "A Proposed Method for Lexical Linguistic Steganography", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2006.
53. Duaa D. Abood, "Determination of the Object's 3D Coordinates from Satellite Images", University of Baghdad, College of Science, 2006.
54. Nerjes M. Shatti, "A Neural Network Based Approach to Recognize 2D Objects", Al-Mustansiriya University/ College of Science, 2006.
55. Muhammed M. Abid, "Hiding in Audio Data Using Affine Transform", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2006.
56. Samiya S. Lazar, "Image Compression Using Shift Coding and Image Partitioning", Al-Anbar University/ College of Computer, 2006.
57. Ahmed M. Al-Falahi, "Secure System for LAN Using Kerberos Protocol", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2006.
58. Jameela A. A. Al-Krimi, "Medical Diagnosis by Analysis of Blood Cell Images", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2006.
59. Ghassan A. H. Mahmoud, "Robust Watermarking System Based On Wavelet Transform", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2005.
60. Faleh L. Muttar, "Using Some Quantum Computing Concepts in Cryptography", University of Baghdad/ College of Science, 2005.
61. Aliya J. Awda, "Hiding Image in Image Using Both Wavelet and Cosine Transforms", University of Technology/ Al-Rasheed/ Computer Science Department, 2005.
62. Azhar J. Chiad, "3D Modeling Using Fractal Concepts", University of Technology/ Al-Rasheed/ Computer Science Department, 2005.
63. Wessam F. J. Mohammed, "Fractal Audio Compression", Al-Nahrain University/ College of Science, 2005.
64. Bourak A. Mohsin, "Urban Change Detection Using Digital Remotely Sensed Data-Case Study (Ramadi City)", Al-Anbar University/ College of Civil Engineering, 2005.

65. Shereen A. Q. Mahdi Al-Samara'i, "The Effects of Using Resampling and Requantization Methods to Compress Digital Audio Data" , Al-Nahrain University/ College of Science, 2005.
66. Ali M. Moheemmed, "Hand Identification Using Fuzzy Neural", Al-Nahrain University/ College of Science, 2005.
67. Muntasir J. Jawad, "Audio Steganography in Wavelet Transform Domain", Al-Nahrain University/ College of Science, 2005.
68. Dhiah E. Jabor, "Intraframe Compression Using Distributed System", Al-Nahrain University/ College of Science, 2005.
69. Suhad F. Sheehan, "A Simple Flight Simulation System", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2005.
70. Raheem Abdul-Sahib, "Design and Implementation of Fire Artillery", University of Technology/ Department of Computer Science, 2004.
71. Mohammed N. Majeed, "Sound Hiding and Extraction Using DCT", Al-Nahrain University/ College of Science, 2004.
72. Mohammed K. Habib, "Data Security Based On AES and Kerberos for Authentication Method", University of Technology/ Department of Computer Science, 2004.
73. Nidhal K. S. Al-Azawi, "Temperature Assessments Using Thermal Images", University of Technology/ Department of Computer Science, 2004.
74. Mohammed J. Hassan, "Design and Implementation of UAV Auto Navigation System Using 8051 Micro Controller", 2004.
75. Mustafa K. A. Al-Attar, "Simulation of Plan Position Indicator Using Raster Scan", Al-Nahrain University/ College of Science, 2004.
76. Muntaha A. Jassim, "Image Steganography Using Fourier Transform Coding", University of Technology/ Al-Rasheed/ Computer Science Department, 2004.
77. Akeel K. Kadhim, "Metal Recognition Using Texture Analysis Methods Based on Run-length Features", University of Technology/ Al-Rasheed/ Computer Engineering And Informatics Department, 2004.
78. Makseem J. Cheghior, "Denoising of SAR Images", University of Technology/ Department of Computer Science, 2004.
79. Ammar A. S. Al-Rawi, "Monte Carlo Method for Calculation of Build-Up Factors in Different Materials", Al-Nahrain University/ College of Science, 2003.
80. Sinan H. Aziz, "Adaptive Speech Compression Using Wavelet Transform", Iraqi Commission for Computers and Informatics/ Informatics Institute, 2003.
81. Hiba Z. Z. Al-Mashaykhi, "Identity Authentication Based on Hand Geometry", Al-Nahrain University/ College of Science, 2003.
82. Qais M. Al-Ethawy, "Design & Implementation of a Computer SW for Secure Storage Media", University of Technology/ Department of Applied Science, 2004.
83. Auday Ali, "Fractal Image Compression With Fasting Approaches", Al-Nahrain University/ College of Science, 2002.

84. Mohammed S. Ahmmed, "Design and Implementation of Auto Navigation System", Engineering College/ Computer Engineering Department, 2002.
85. Zaid R. K. Al-Doury, "Adaptive Sound Compression Using Discrete Cosine Transform", Al-Nahrain University/ College of Science, 2002.
86. Raed M. Salih, "Information Hiding in Wave Media File Using low Bit Encoding," , M.Sc. Thesis, Computer and Information system Dept., University of Technology, Baghdad, Iraq, 2002.
87. Aws N. A. Al-Sadi, "Thermal Image Processing Techniques Used for Targets Detection", University of Baghdad/ College of Science, 2002.
88. Sawsan A. Al-Hadi Mahmoud, "Machines and Human Recognition Using their Sounds", Engineering College/ Computer Engineering Department 2002.
89. Nadda A. K. Ma'rof, "H261 Image Video Compression", National Center of Electronic Computers/ Institute of Higher Studies, 2002.
90. Asmaa S. Abdul Jabar, "Two Oriented Cross Operator For Extracting Edges And Corners", National Center of Electronic Computers/ Institute of Higher Studies, 2002.
91. Amal A. Kadhim, "H263 Image Video Compression", University of Technology/ Department of Computer Science, 2002.
92. Sa'adia H. Halwas, "Effect of F2 Layer on HF Communication Parameters", University of Baghdad/ College of Science/ Department of Astronomy, 2002.
93. Maha S. A. Nagem, "The Accuracy of Some Passive Methods for Radio Source Allocation", University of Technology/ Department of Electrical and Electronic Engineering, 2002.
94. Ohoud K. Abdul Majeed, "Computer Aided Design of External Single and Meshing Spur Gears with Tooth Stresses Analysis", University of Technology, 2001.
95. Muthana M. A. Hammeed, "Exploration of Water Pollution in Tigers River Using Remote Sensing Data", University of Technology/ Department of Civil Engineering, 2001.
96. Rana A. R. Lateef, "Combined Rules for Edge Detection of Colored Images", National Center of Electronic Computers/ Institute of Higher Studies, 2001.
97. Waseem B. Al-Deen, "A simplified Model for Geomagnetic Field in Iraq", Al-Nahrain University/ College of Science, 2001.
98. Mohammed S. M. Al-Taei, "Using Fractals for Sound Recognition and Verification", Al-Nahrain University/ College of Science, 2001.
99. Khada K. Al-Khafagee, "Adaptive Fractal Image Compression", National Center of Electronic Computers/ Institute of Higher Studies, 2001.
100. Mohammed H. Khaleel, "Accuracy Analysis for the Methods of Determining Locations of Moving Targets", University of Baghdad/ College of Science, 2001.
101. Zuhair M. Yousif, "Information Hiding in Image Files", Al-Mustansiriya University/ College of Science, 2001.

102. Sadek H. Leftah, "Image Compression and Enhancement Using Wavelet Transform", Babylon University/ College of Science, 2001.
103. Ibrahim L. Aurebi, "Image Enhancement Using Wavelet Transform", Engineering College/ Department of Applied Science, 2001.
104. Ferhan M. A. Neshwan, "Inter-Frame Video Compression", Al-Mustansiriya University/ College of Engineering, 2001.
105. A'ala G. G, The accuracy of Clouds Movements Assessments Using NOAA and METEOSAT Satellite Images, Al-Mustansiriya University/ College of Science, 2001.
106. Oday A. A. H. Jassim, "Calculation of the Geographic Distribution of Temperature Using Meteorological Satellite Images", Al-Mustansiriya University/ College of Science, 2001.
107. Abdul-Rahman Finjan, "Fractal Image Synthesizing", National Center of Electronic Computers/ Institute of Higher Studies, 2000.
108. Ahmed S. M. Al-Hyali, "Using Digital Sound for Determining the Radial Velocity of the Airplane", Al-Nahrain University/ College of Science, 2000.
109. Bashar J. H. Al-Ani, "Detection and Targeting of Moving Objects Using Digital Optical Stereo Imaging Technique", Al-Nahrain (Saddam) University/ College of Science, 2000.
110. Faisal G. Mohammed, "The Techniques of Reducing the Spatial Resolution Distortion in Digital Images", University of Baghdad/ College of Science, 2000.
111. Kamal H. Sager, "Textural Images Segmentation Using Fractal Geometry", Al-Mustansiriya University/ College of Science, 1999.
112. Raed A. S. Al-Ani, "Image Segmentation Using Color Attributes", Al-Mustansiriya University/ College of Engineering, 1999.
113. Ban A. Rasheed, "Image Coding Method Based on Segmentation Technique", University of Baghdad/ College of Science, 1999.
114. Majid A. S. Sha'alan, "New High Synthetic Coding Method for Compressing Digital Speech Signals", University of Baghdad/ College of Science, 1999.
115. Farah Y. H. Merza, "A Quantitative Analysis of the performance of the Polynomial Local Operators", University of Baghdad/ College of Science, 1999.
116. Ayad A. K. Abdul Salam, "The Quantitative Analysis for New Stream Cipher Generator", University of Baghdad/ College of Science, 1999.
117. Amal A. Fahed, "Image Compression Using Adaptive Polynomial Transform Coding", University of Baghdad/ College of Science, 1998.
118. Ali K. Musa, "Signature Recognition and Verification Using Complex Moments Characteristics", University of Baghdad/ College of Science, 1998.

Annex-D

List of Dissertations

D1. Master

1. Maha M. Ali, "Hand Palm Authentication System", University of Baghdad/ College of Science, 2004.
2. Suhad Abdul Rahman, "E-Mail Virus Detection", University of Baghdad/ College of Science, 2004.
3. Huda M. Saleh, "Fractal Audio Compression", University of Baghdad/ College of Science, 2004.
4. Alia F. Kadhim, "Speech Compression Using DSP Techniques", University of Baghdad/ College of Science, 2004.
5. Ali M. Baker, "Hiding Audio in Audio Using Wavelet Transform", University of Baghdad/ College of Science, 2003.
6. Rana T. Mohamed, "Image in Image Steganography", University of Baghdad/ College of Science, 2003.
7. Ibraheem N. Ibraheem, "Image Compression Using Wavelet Transform", University of Baghdad/ College of Science, 2002.
8. Hatem F. Mansour, "Speech Recognition Using Word Segmentation", University of Baghdad/ College of Science, 2002.
9. Ahmed H. Ali, "Image in Image Steganography Using PIFS", University of Baghdad/ College of Science, 2002. Also, published as a book with title "Image in Image Steganography Using PIFS", in Lambert Academic Publishing (LAP), ISBN: 978-3-659-40082-7, in 5-July-2013.
10. Wessam H. Fadhil, "Textural Analysis Using Wavelet Transform", University of Baghdad/ College of Science, 2002.
11. Haider Mahmood, "Fixed Frame Coding for Speech Compression", University of Baghdad/ College of Science, 2001.

D2. High Diploma

1. Isra, "Localization of Color Iris Area". University of Baghdad, College of Science, Department of Computer Science, 2018.
2. Duaa Shakir Najji, "Student Information Management System", University of Baghdad, College of Science, Department of Computer Science, 2014.
3. Nur Alhuda Ali Hamza, "Pre-pay System for Water Billing", University of Baghdad, College of Science, Department of Computer Science, 2014.
4. Abbas Rahim Abdul Hamza, "Public Key Infrastructure (PKI)", University of Baghdad, College of Science, Department of Computer Science, 2013.

5. Dina Hassan, "Simulation of Secure Digital Camera Watermark Using Wavelet Transform", University of Baghdad, College of Science, Department of Computer Science, 2012.
6. Farah Taleb, "Registry Files Security", University of Baghdad, College of Science, Department of Computer Science, 2012.
7. Mohammed Khudhair, "Audio Steganography Using Amplitude Modulation", University of Baghdad, College of Science, Department of Computer Science, 2011.
8. Walaa S. Tahlook, "Hierarchal Indexing Method for Spatial Database", University of Baghdad, College of Science, Department of Computer Science, 2011.
9. Huda M. Hassoon, "Lossless Image Compression Using Prediction Coding and LZW Scheme", University of Baghdad, College of Science, Department of Computer Science, 2011.
10. Yousif M. Latif, "Hand Written Hindi Numerals Recognition System", Baghdad University of Baghdad, College of Science, Department of Computer Science, 2011.
11. Aalaa A. Khalid, "Removal of Intensive Impulsive Noise", University of Baghdad, College of Science, Department of Computer Science, 2011.