Academic Curriculum Vitae
(Hala Bahjat Abdul Wahab)

Name: Hala Bahjat Abdul Wahab

Date and Place of Birth: Jun.28 . 1969, Basrah -Iraq.

Nationality: Iraqi

Marital status: Married,   Family: 3 children's

Degree Status: PhD in Security Computer Science

Scientific Degree: Prof,   Date: 22 / 12 / 2018

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Graduate Degrees:

Degree	University	Graduation Date	Country
B. Sc.	University of Basrah \ Computer Science Department	1990	Iraq
M. Sc	University of technology Computer Science Department	2001	Iraq
Ph. D	University of technology Computer Science Department	2006	Iraq

Service activities

1. Computer sciences centre-engineering collage/ Assistant Programmer / University of Basrah 1991- 1995
2. Department of Computer Science/ Assistant Research / University of Technology 1995-2001
3. Department of Computer Science / Assistant Lecturer /University of Technology from 2001 - 2006
4. The head of the security branch / Department of Computer Science / University of Technology 2006-   2009
5. Department of Computer Science/ Lecturer / University of Technology from 2009 - 2012
6. Member in the Department of Computer Science of the Scientific Committee / University of Technology 2011- 2012
7. Chairman of the Scientific Promotion Department of Computer Science / University of Technology   2012-2014
8. Member of the Committee for Scientific and university promotions at the University of Technology   2012-2014
9. Member of the editorial board of the Journal of Engineering and Technology - University of Technology 2014- till now.
10. Head of iInformation systems branch / Department of Computer Science / University of Technology 2012 - 2015
11. Head of Computer Science Department / University of Technology/2015 -2019

Scientific Achievements

1. **Published research:**
   a. **Iraqi scientific journals:** Number of scientific research published in scientific journals Iraq are (60) searches.
   b. **Scientific conferences in Iraq:** Number of research participations in scientific conferences inside Iraq are (20) searches.
   c. **Scientific conferences outside of Iraq:** Number of research participations in international scientific   conferences   outside   of   Iraq   are   (18)   searches

2. **Scientific books published:** Number of scientific books published outside of Iraq (1) published on the Website Google
   Published (*PGP Protocols and its Applications*) Chapter in "Cryptography Book 1, in IN TECH 2012

Scientific Activities:

- **Discussion thesis of high graduate studies :**
   a. Doctorate Thesis No. (25)
   b. Master's Thesis No. (30)
- **Resident scientific :**
   a. Master's Thesis No. (15
   b. Upgrades of the scientific title of assistant teacher to teacher No. (18)

c. Upgrades of the scientific title of a teacher to assistant professor, No. (5)
d. Scientific journals numbers of Iraqi universities are (7)
e. Journal of the global scientific IEE Branch Iraq

Certificates

- Certificate of appreciation from Ministry of Higher Education issued on 6/4/2009.
- Thanks and appreciation No. (25) Conferred by the various Iraqi universities in the field of computer science.

Published Papers

1. **"Information Hiding in written text Using Context-Free Grammar (CFG)**", Eng. & Tech. Journal, University of technology, Vol21.No.4,2002.

2. **"Cryptography key generation using 2-DIM generated image"**. Journal of AL-Rafidain University College,No.19 8th year 2006.

3. **"Recognizing on-line hand written alphanumeric character Using Structural Approach",** Journal of AL-Rafidain University College, Vol231.No.10,2008.

4. **"Using Generated Digital Images to Modify the PGP Cryptography Protocol**" The 2007 International Conference on Security and Management , Monte Carlo Resort, Las Vegas, Nevada, USA (June 25-28, 2007).

5. **"Quantum Description of Curve Cryptography Technique to Implement Key Distribution System**",Journal of information Technology **",** Vol2.No,1,2008.

6. **"Generate Cryptographic key using generated 3D- Digital Image",** Eng. & Tech. Journal, University of technology, Vol.27, No.2, 2009.

7. **"Motion Planning Method Using Cell Decomposition**", Journal of information Technology, Vol2.No,1,2008.

8. **"Agent _Based Program Generation for Database Systems"**, Journal of information Technology, Vol2.No,1,2010 .

9. **"Modify PGP Cryptography Protocol Using Hash Visualization Techniqu**e", First national conference on computer for information Technology ,11/1/2009

10. **"Using Generated Digital Images in Image Cryptograph**y", Journa l of information Technology, Vol2.No,1,2008.

11. **تمثيل قواعد اللغة العربية كحدود منطقية في أنظمة معالجة اللغات الطبيعية,** Eng. & Tech. Journal, University of technology, Vol26.No.11,2008.

12. **"Hybrid Information Hiding Technique Using Parametric Spline and DFT"**, Eng. & Tech. Journal University of technology, Vol28.No.4,2009.

13. "A **New Steganography Approach depending on Isolation Curve in Digital Images"**, Journal, of Al- Anbar University for pure science, Vol.3. No.1.2009.

14. **"Modify Blowfish Algorithm using Generated Randomness Digital Image**", First computer science conference , University of Technology, computer Science Department,February,2010.

15. **"Proposed New Quantum Cryptography System Using Quantum Description Techniques for Generated Curve"**, The 2009 International Conference on Security and Management , Monte Carlo Resort, Las Vegas, Nevada, USA (July 13-16, 2009).

16. **"Modification Approach Method for RC4 Using 2D Wavelet Transform",** Vol.21. No.4.2010.Al-Mustansiriyah Journal of science.

17. **"Proposed Steganography method dor data hiding in Microsoft word document structure"**, Al –Mansour Journal,Al-mansour University college, Vol.11. No.4.2010.

18. **"Proposed New Elliptic Curve Cryptography Protocol Based on Dictionary Techniques"**, European Journal of Scientific Research, vol77, Issue 2,2012.

19. **" Proposed New Algorithm to Generate Cryptography Session Keys Based on CFG and Huffman Code"**, European Journal of Scientific Research, vol.78, Issue 4,2012.

20. **" Proposed Approach for Key Generation Based on Elliptic Curve (EC) Algebraand Metaheuristic Algorithms,** Eng. & Tech. Journal, University of technology, Vol32 partB.No.2.2014.

21. " **تضمين رساله سرية داخل نص عربي مشكل**" 7- 10 /5/2014 المؤتمر الدولي الثالث للغة العربي دولة الامارات دبي

22. **" Partial Cryptography in Digital Media Environment Based on ECC Algebra ",** *Iraqi Journal of Science, Vol 54.No.2.2013.Pp 455-467.*

23. **"Moving Area Filter to Detect Objects in Video Sequences from Moving Platform"** World Academy of Science, Engineering and Technology, International Journal of Computer, Information Science and Engineering ,Vol:7 No:9, 2013.

24. **" Modify Symmetric Block Cipher Algorithm Using Generated Digital 3D Fractal Image**", *Iraqi Journal of Science, 2013, Vol 54, No.4, pp:955-964.*

25. **" Partial Encryption in Digital Image Based On Plasma Encoding Techniques"**
مجلة الهيئة العراقية للمعلوماتية , العدد الاول

26. **" Improved Mean Shift Tracking Algorithm by Multi Scale Motion Information", IOSR Journal of Engineering (IOSRJEN) e**-ISSN: 2250-3021, **p**-ISSN: 2278-8719 Vol. 3, Issue 10 (October. 2013), ||V4|| PP 01-08**.**

27. **" Parallel Priority Region Approach to Detect Background",** World Academy of Science, Engineering and Technology International Journal of Computer, Information Science and Engineering Vol:7 No:10, 2013**.**

28. **" Speed Image Encryption Scheme UsingDynamic Galois Field GF(P) Matrices** , *International Journal of Computer Applications (0975 – 8887),Volume 89 – No.7, March 2014*

29. **" Dynamic Shuffling for Speed Image Encryption ",** International Journal of Computer Applications (0975 – 8887),Volume 89 – No.7, March 2014.

30. **" Using Unitary Matrices in High-Speed Video Encryption" IJCSNS** International Journal of Computer Science and Network Security, VOL.14 No.8, August 2014.

31. " **Proposed Approach for Steganography in Arabic Text Based on B+_Tree,DNA Coding and Arabic Diacritics",** International Journal of Advance Resach (IJAR),ISSN:2320-2407,2014.

32. "**Secure and Time Efficient Hash-based Message Authentication Algorithm for Wireless Sensor Networks",**978-1-4799-5627-2/14/$31.00 ©2014 IEEE.

33. **"Improvement A5/1 Encryption Algorithm Based On Sponge Techniques",**978-1-4673-6636-6/15/$31.00 ©2015 IEEE.

34. **"Data Security Protocol for Wireless Sensor Network using Chaotic",Map",**(IJCSIS) International Journal of Computer Science and Information Security, Vol. 13, No. 8, August 2015**.**

35. **"New Watermark Technique Based on B+ Tree and Mathematical Morphology**",Al-Mustansiriyah Journal of Science Vol. 26, No 1, 2015.