

Curriculum Vitae

Sarab M. Hameed

Personal Information:

Place and Date of Birth: Iraq/Baghdad 7 January 1971

Office: Iraq, Baghdad/ Al-Jadiriya, University of Baghdad, College of Science, Department of Computer Science

E-Mail : sarab.m@sc.uobaghdad.edu.iq

Education:

University of Technology, Baghdad, Iraq,

Ph.D., Computer Science- June 2005

Dissertation: *Design and Implementation of a Secure Distributed Agents System*

University of Baghdad, Baghdad, Iraq,

Master of Science, Computer Science- Jan. 1999

Thesis: Image Segmentation Using Genetic Algorithm

University of Baghdad, Baghdad, Iraq,

Bachelor of Science, Computer Science- June 1992

Scientific degree & date:

Assistant Professor June 2007

Lecturer, June 2004

Assistant Lecturer, April 1999

Interest

Distributed System, Computer, and Network Security, Image Processing, Genetic Algorithm, Object Oriented Programming, Android, eLearning, Neural Networks, Fuzzy Clustering, and Cryptography.

Publications:

1. Dr. Lamia H. Khalid, Nada A. Z. Abdul-Allah, **Sarab M. Hameed**, "Image Ciphering Using Modified DES", Iraqi Journal of Science, vol. 43, no.2, 2002.
2. **Sarab M. Hameed** "A Steganographic Algorithm for Hiding Gray Images Using an Interlaced Numerical Function", Iraqi Journal of Science, 2004.
3. **Sarab M. Hameed**, "Distributed Object Technologies: RMI versus CORBA", Journal of Al-Rafidain University College for Science, no.17, 2005.
4. Hilal Mohammed Yousif, Lamia H. Khalid and **Sarab M. Hameed** " Secure Framework for Distributed Agent System" The 4th ACS/IEEE International Conference on Computer

Systems and Applications, Dubai/Sharjah, UAE, American University of Sharjah (AUS) & Dubai Silicon Oasis (DSO) , pp. 928-931, 2006.

5. Bara'a A. Attea, **Sarab M. Hameed**, Aminna Dahim "Content-Base Grayscale Image Colorization" , 4th International Multiconfernce on Computer Science and Information Technology, in Jordon,2006.
6. **Sarab M. Hameed**, Sura N. Abdula Fatin A. Dawood, "Image Steganography in De-correlated Color Spaces", Journal of Al Nahrain University Science, Vol. 9, No.1, 2006.
7. Bara'a A. Attea, **Sarab M. Hameed**, Aminna Dahim "Patch-based Colorization of Grayscale Images", Journal of Al Nahrain University Science, Vol. 9, No.2, 2006.
8. **Sarab M. Hameed**, "Cryptanalytic Attack on Merkle-Hellman Knapsack Based on Diploid Genetic Algorithm", Vol. 9, No.2, 2006.
9. **Sarab M. Hameed** "Learning Traditional Filters based on Image Examples", Journal of Al Nahrain University Science, Vol. 10, No.1, 2007.
10. **Sarab M. Hameed** "A Steganographic Approach Based on Spatial Frequency Layering ", 1st International Conference on Digital Communication and Computer Applications, in Jordon, 2007.
11. **Sarab M. Hameed**, "A Genetic Algorithm for Learning Image Blur and Sharpen Filters", Journal of Al Nahrain University Science, Vol. 10, No.2, 2007.
12. Mayada F. Abdul Halim, Baraa' A. Attea and **Sarab M. Hameed** "A Binary Particle Swarm Optimization for Attacking Knapsacks Cipher Algorithm" ICCCE08 Conference, May, 2008.
13. **Sarab M. Hameed**, Mayada F. AbdulHalim,. Bara'a A. Attea, "Diploid Genetic Algorithm with Exogenous Recombination Scheme for Breaking Merkle-Hellman Knapsack ", Iraqi Journal of Science
14. **Sarab M. Hameed** , Nasreen J. Kadhim and Mahmood A. Othman "Image Inpainting Based on Particle Swarm Optimization "Iraqi Journal of Science, Vol.50, No.2, 2009, PP.231-235
15. **Sarab M. Hameed** and Dalal Naeem "Particles Swarm Optimization for the Cryptanalysis of Transposition Cipher", journal of Al- Nahrain, Vol.13 (4), December, 2010, pp.211-215
16. **Sarab M. Hameed**, Maisaa Ibrahim, and Zainab Raad, Retrieving Documents with Compact Genetic Algorithm, Iraqi Journal of Science, Vol.51, No.4, 2010, PP.652-656
17. **Sarab M. Hameed** and Sumaia Saad, "A Mixed Fuzzy intrusion Detection System ", Iraqi Journal of Science. Vol 53.No 2.2012 PP.427-434.
18. **Sarab M. Hameed** and Mais M. Hobi, " User Authentication based on Keystroke Dynamics Using Backpropagation Network", International Journal of Advanced Research in Computer Science, Volume 3, No. 4, July- August 2012
19. **Sarab M. Hameed**, Sumaya S. Sulaiman and Mais M. Hobi, "Probabilistic Neural Network for User Authentication Based on Keystroke Dynamics International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 2, Issue 11, November 2013.
20. Mayada F. AbdulHalim, **Sarab M. Hameed**, and Leka'a F. AbdulHalim, "Students' Perspectives in Adopting Mobile learning at University of Bahrain", 4th International Conference on e-learning, 2013, Bahrain.
21. **Sarab M. Hameed**, Mayada F. AbdulHalim, Sumaya S. Sulaiman, "An Extended Modified Fuzzy Possibilistic C-means Clustering Algorithm for intrusion Detection" 2nd International Conference on Software and Computer Applications- ICSCA 2013, France.

22. **Sarab M. Hameed** and Noor Alhuda Jasim "Content based Spam Filtering Using Optical Back Propagation Technique", International Journal of Application or Innovation in Engineering & Management (IJAIEEM), Vol. 2, Issue 7 July 2013.
23. **Sarab M. Hameed**, Sumaya S. Sulaiman and Mais M. Hobi, "User Authentication Approach using a Combination of Unigraph and Digraph Keystroke Features", International Journal of Advanced Computing, Vol.47, Issue.1, 2014, United Kingdom
24. Bara'a A. Attea and **Sarab M. Hameed**, "A Genetic Algorithm for Minimum Set Covering Problem in Reliable and Efficient Wireless Sensor Networks", Iraqi Journal of Science, Vol. 55, No.1, pp: 224-240, 2014, Iraq
25. **Sarab M. Hameed**, Omar Fitian Rashid, "Intrusion Detection Approach Based on DNA Signature", Iraqi Journal of Science, Vol. 55, No.1, pp: 241-250, 2014, Iraq.
26. **Sarab M. Hameed**, Rasha A. Mohammed, and Baraa' A. Attea,, "Fuzzy Based Clustering for Grayscale Image Steganalysis", Iraqi Journal of Science , 2015, Vol 56, No.2A, pp:1161-1175
27. **Sarab M. Hameed**, Marwan B. Mohammed, and Baraa A. Attea, "Fuzzy Based Spam Filtering", Iraqi Journal of Science, 2015, Vol 56, No.1B, pp: 506-519
28. Hiba Mohammed Wajeih and **Sarab M. Hameed**, "User Authentication Based On Touch Dynamics of Pattern Unlock", IJCSMC, Vol. 4, Issue. 5, May 2015, pp.622 – 634.
29. **Sarab M. Hameed** and Israa Nafea Mahmood, "A Modified Key Scheduling Algorithm for RC4", Iraqi Journal of Science, 2016, Vol. 57, No.1A, pp. 262-267.
30. **Sarab M. Hameed** and Israa Nafea Mahmood "An End to End Secure Voice Transmission in Smartphone", Iraqi Journal of Science, 2016, Vol. 57, No.2B, pp:1292-1301.
31. Dhuha I. Mahmood and **Sarab M. Hameed** "A Feature Selection Model based on Genetic Algorithm for Intrusion Detection", Iraqi Journal of Science, 2016, Special Issue, Part A, pp:168-175.
32. **Sarab M. Hameed** and Marwan B. Mohammed, "Spam Filtering Approach based on Weighted Version of Possibilistic c- Means", Iraqi Journal of Science, 2017, Vol. 58, No.2C, pp: 1112-1127.
33. Noor Fouad and **Sarab M. Hameed**, "Genetic Algorithm based Clustering for Intrusion Detection", Iraqi Journal of Science, 2017, Vol. 58, No.2B, pp: 929-938.
34. Dhuha I. Mahmood and **Sarab M. Hameed**, "Multi-Objective Evolutionary Algorithm based Feature Selection for Intrusion Detection", Iraqi Journal of Science, 2017, Vol. 58, No.1C, pp: 536-549
35. **Sarab M. Hameed**, Hiba A. Sa'adoon and Mayyadah Al-Ani mage Encryption Using DNA Encoding and RC4 Algorithm Iraqi Journal of Science, 2018, Vol. 59, No.1B, pp: 434-446
36. Osama A. Salman and **Sarab M. Hameed** "User Authentication via Mouse Dynamics" Iraqi Journal of Science, 2018, Vol. 59, No.2B, pp: 963-968.
37. Ibtisam A. Taqi and **Sarab M. Hameed** "A new Color image Encryption based on multi Chaotic Maps", Iraqi Journal of Science, 2018, Vol. 59, No.4B, pp: 2117-2127.
38. **Sarab M. Hameed** and Ibtisam A. Taqi, A New RGB Image Encryption Based on DNA Encoding and Multi-chaotic Maps" NTICT 2018, CCIS 938, pp. 69–85, 2018, Springer Nature Switzerland.
39. **Sarab M. Hameed** and Layla M. Mohammed Ali "Utilizing Hopfield Neural Network for Pseudo-Random Number Generator" 15th ACS/IEEE International Conference on Computer Systems and Applications, 2018.
40. Osama A. Salman and **Sarab M. Hameed** "Using Mouse Dynamics for Continuous User Authentication", FTC 2018, AISC 880, pp. 1–12, 2018, Springer Nature Switzerland.

41. Layla M. Mohammed Ali and Sarab M. Hameed Pseudo Random Number Generator Based On Neuro-Fuzzy Models, ARPN Journal of Engineering and Applied Sciences Vol. 14, N. 13, 2019.
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Committees Membership

- Reviewer in several International Conference.
 - Chairman, the Ministry Committee for the Development of Graduate Studies in the University of Technology, 2012
 - Member, Ministry committee for assessment private collages in Iraq.
 - Chairman, Senior Project Committee, College of Science, University of Baghdad, 2005- present.
 - Member, Computer Science Department Scientific Committee, College of Science, University of Baghdad, 2007 to present.
 - Member, Conferences Committee- Department of Computer Science/ College of Science/ University of Baghdad 2013.
 - Member, preparing competitive questions examination for applicant for postgraduate studies Committee- Department of Computer Science/ College of Science/ University of Baghdad, 2009 to present.
 - Member, Evaluating performance of applicants for postgraduate studies Committee- Department of Computer Science/ College of Information Baghdad/ University of Baghdad, 2009 to 2013.

 - Member, Examination Committee for undergraduate studies - Department of Computer Science/ College of Science/ University of Baghdad.
 - Member, Student Affairs Committee- Department of Computer Science/ College of Science/ University of Baghdad, 2011-2012.
 - Member, Syllabus preparation Committee- Department of Computer Science/ College of Science/ University of Baghdad, 2010-2011.
 - M.Sc. and Ph.D. thesis Examination Committees in:
 - Computer Science Department/ College of Science/ University of Baghdad.
 - Computer Engineering Department/ College of Science / University of Al-Nahrain.
 - Computer Science Department/ College of Engineering / University of Al-Nahrain.
 - Informatics Institutes for Postgraduate Studies
 - Computer Science Department / University of Technology.
 - Computer Science Department/ College of education / University of Al-Mustansiriyah.
 - Member, Evaluation Committee for International Thesis
 - Member, Examination Committee for undergraduate study - Department of Computer Science/ College of Science/ University of Baghdad.
 - Member, Examination Committee for postgraduate studies - Department of Computer Science/ College of Science/ University of Baghdad.
 - Member, Examination Committee for Ph. D. - Department of Computer Science/University of Technology.
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Thesis Supervision

1. A Fuzzy Based Clustering for Intrusion Detection
2. User Authentication Based on Keystroke Dynamics Using Neural Networks
3. Wireless Intrusion Detection System
4. Security In Wireless Sensors Networks
5. Phishing Threats
6. Retrieving and Analysing Data from Memory
7. Effective of File System Forensic Tools
8. A Content Spam Filtering Using Artificial Neural Networks
9. Intrusion detection based on computer Network DNA Signature
10. Spam Filtering Based on Fuzzy Clustering
11. Smartphone User Authentication Approach Using Touch Dynamics
12. A Fuzzy Based Clustering for Image Steganalysis.
13. An End to End Secure Voice Transmission in Smartphone.
14. Intrusion Detection with Evolutionary Based Feature Selection
15. Image Encryption Using DNA Encoding And RC4 Algorithm
16. Proposed Genetic Algorithm-Based Clustering For Intrusion Detection
17. Utilizing Genetic Algorithm for image Encryption
18. User authentication based on Mouse Dynamics
19. Using DNA Encoding and Chaotic Maps for Image Encryption.
20. Simulation Study to Investigate the Effect of Selfish Node on Mobile Ad Hoc Network
21. Color Image Encryption Based On 3d Chaotic Map
22. Neuro-Fuzzy Models for Pseudo Random Number Generator

Additional Activity

Participate in the **Sixth Thematic Semester of the UNESCO chair on Mathematic and Development in University of Tunis Al Manar.**