

CURRICULUM VITAE

<i>(Personal Details)</i>			
<i>(Full Name)</i>	Nadia Mohammed Ghanim Al-Saidi		<i>(Title):</i> Dr.
<i>Passport No</i>	<i>(Citizenship)</i> Iraq	<i>(Race):</i> Arabic	<i>(Gender)</i> Femal
<i>(Current Address)</i>	<i>(Department/Faculty)</i>	<i>(E-mail Address and URL)</i>	
	Applied Sciences- Department of Applied Mathematics & Computer Application- University of Technology - Baghdad-Iraq	E-mail: nadia_alsaidi@hotmail.com nadiamg08@gmail.com	

<i>(Academic Qualification)</i>			
<i>(Certificate / Qualification obtained)</i>	<i>(Name of School / Institution)</i>	<i>obtained)</i>	<i>(Area of Specialization)</i>
Post Doctoral :Project Title: <i>Using Fractal in Cryptography & Information Hiding.</i>	Institute for mathematical research- UPM-Malaysia	2008-2010	Fractal Geometry in Cryptography
Ph.D: Thesis Title: <i>"ON Multi Fuzzy Fractal Spaces".</i>	Al-Nahreen University-Baghdad - Iraq	2003	Fractals Geometry
M.Sc: Thesis Title <i>"Evaluation Study of Non-Linear Boolean Functions in Design of Stream Cipher Systems".</i>	University of Technology-Baghdad –Iraq.	1995	Cryptography
B.Sc: Graduate Project Title <i>"Computing the Number of Irreducible Polynomial of Given Degree".</i>	University of Technology-Baghdad –Iraq.	1989	Applied Mathematics

<i>(Employment)</i>				
<i>Employer</i>	<i>Designation</i>	<i>Department</i>	<i>Start Date</i>	<i>Date Ended</i>
University of Technology Baghdad Iraq.	Assistant Researcher	Applied sciences Dep.	1989	1995
University of Technology Baghdad Iraq.	Lecturer	Applied sciences Dep.	1995	1999
University of Technology Baghdad Iraq.	Assistant Professor	Applied Sciences Dep.	1999	2003

University of Technology Baghdad Iraq.	Associate Professor	Applied Sciences Dep.	2003	till now

TEACHING EXPERIENCE:

- (a) Taught Mathematics to Degree level students at University of Technology- Baghdad-Iraq from 1990 to date.
- (b) Taught Mathematics to Masters Students and supervised Master Students at University of Technology- Baghdad-Iraq from 2004 – to date.
- (c) External examiner for MS.C and PH.D. in Mathematics and Cryptography at many other Universities in Iraq

Taught the following courses	
Undergraduate Courses	Post Graduate Courses
Calculus I,II	Fractal Geometry
Real Analysis	Algebraic Number Theory
Group Theory, Field and Ring	Fuzzy Theory
Number Theory	Cryptography
Cryptography	Coding Theory
Coding Theory	Matlab & Maple
Matlab & Maple	

(List of publications – author (s), title, journal, volume, page and year published)

Journal	Submitted and Accepted Papers
	<ol style="list-style-type: none"> Nadia M. G. Al-Saidi and Arkan J. Mohammed, Adil M. Ahmed. Local Fuzzy Fractal Dimension based on Escape Time algorithm. Submitted to the APPLIED MATHEMATICAL SCIENCES Journal. [Citation indexed (SCOPUS)]. IF=0.405. Nadia. M. G. Al-Saidi, N.A. Rajab, and K.A. Kadhim. Construction of a Uniform Access Structure Using Minimum Independent Dominating Vertices. Submitted to the Journal of Univ. of Technology. (Eng. & Tech. Journal).

3. Nadia. M. G. Al-Saidi, N.A. Rajab, and H. N. Abdul-Rahman. A New Algorithm for Induced Subgraph Isomorphism. **Submitted** to the **International Journal of Mathematics and Mathematical Sciences**. [Citation indexed (ISI/SCOPUS)].
4. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said. Biometric Identification based local Iterated Function Systems. **Accepted** in **Eur. Phys. J. Special Topics, Chaos, Cryptography and Communications** [Citation indexed (ISI/SCOPUS)], **IF=1.79**.
5. Nadia M. G. Al-Saidi, W.K. Hamoudi, Information Security based Nano and Bio-Cryptography. **Accepted** as a chapter for the Book titled **“Multidisciplinary Perspectives in Cryptology and Information Security**, that will be published by IGI-Global.
6. Nadia M. G. Al-Saidi. An Improved key Agreement Protocol Based on Fractal Theory. **Accepted** in the **Journal of Univ. of Technology. (Eng. & Tech. Journal)** .
7. Nadia. M. G. Al-Saidi, N.A. Rajab, Mohamad Rushdan Md. Said and K.A. Kadhim. An Improved Information Rate of Perfect Secret Sharing Scheme Based on Dominating set of Vertices. ” **Accepted** in **International Journal of Computer Mathematics**. [Citation indexed (ISI/SCOPUS)], **IF=0.589**

Published Papers

8. Nadia. M. G. Al-Saidi and S. H. Salih. Lattice Attack on Fractal Public Key Cryptosystem. **European Journal of Scientific Research** Vol. 105, No. 1, 2013 [Citation indexed (ISI/SCOPUS)], **IF=0.736**.
9. Nadia M. G. Al-Saidi and Arkan J. Mohammed, Adil M. Ahmed. Fractal Dimension Based on Pixel Covering Method, **Al-Mustansiriyah journal of sciences**, Vol. 24, No. 5, 2013.
10. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said. Password Authentication Based on Fractal Coding Scheme. **Journal of**

Applied Mathematics. Volume 2012, [Citation indexed (ISI/SCOPUS)], **IF=0.834**

11. Nadia M. G. Al-Saidi, An efficient signcryption method using fractal image coding scheme. **International Journal of Applied Mathematics and Informatics**, Vol. 6 No. 4, 2012. [Citation indexed (SCOPUS)]
12. Ariffin, M.R.K. , Al-Saidi, N.M.G. , Said, M.R.M. A new direction in utilization of chaotic fractal functions for cryptosystems. **Understanding Complex Systems. Chapter 9, Springer Verlag**, 2012, pp.233-248. (ISI/SCOPUS)
13. Nadia M. G. Al-Saidi and Arkan J. Mohammed. A New Approach for Computing Multi-Fractal Dimension Based on Escape Time Method. **Int. Journal of Math. Analysis**, Vol. 6, 2012, no. 16, pp. 761 – 773. [Citation indexed (SCOPUS)], **IF=0.253**.
14. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said A New Idea in Zero Knowledge Protocols Based on Iterated Function Systems. **World Applied Sciences Journal (WASJ)**, Vol. 15, No. 3. 2011, pp. 364-371. [Citation indexed (ISI/SCOPUS)]
15. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said, Improved Digital Signature Protocol using Iterated Function Systems” **International Journal of Computer Mathematics** Vol. 88, No. 17, 2011, pp. 3613–3625. [Citation indexed (ISI/SCOPUS)], **IF=0.589**.
16. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said. On the Security of Digital Signature Protocol Based on Iterated Function Systems. **Int. Journal of Math. Analysis**, Vol. 5, No. 29, pp.1399 – 1410, 2011. [Citation indexed (SCOPUS)], **IF=0.253**.
17. Nadia M. G. Al-Saidi. Signature Identification Scheme Based on Iterated Function Systems. **World Academy of Science, Engineering and Technology**, Vol. 80, 2011. [Citation indexed (SCOPUS)].
18. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said, Adil Mahmood

Ahmed, About Fuzzy Fixed Point Theorem in the Generalized Fuzzy Fractal Space, **Far East Journal of Mathematical Sciences (FJMS)**, Vol. 53, No.1, pp. 53-64, 2011. [Citation indexed (SCOPUS)], **IF=0.692**.

19. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said, Adil Mahmood Ahmed. Efficiency Analysis for Public Key Systems Based on Fractal Functions. **Journal of Computer Science** Vol. 7 No. 4, pp. 526-532, 2011. [Citation indexed (ISI/SCOPUS)] **IF=1.35**.
20. Nadia M. G. Al-Saidi ,”On the Security of Image Encoding Based on Fractal Functions”, **International Journal on Computer Science and Engineering (IJCSE)**, Vol. 3 No. 1, Jan 2011.
21. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said, A new public key cryptosystem based on IFS, **International Journal of Cryptology Research**, Vol.2, No.1, pp. 1-13, 2010.
22. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said, Mathematical challenges in information age, **Math digest, INSPEM UPM**, Vol.3 No.1, 2010.
23. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said, IFS on the multi-fuzzy fractal space, **International Journal of Computational and Mathematical Sciences**, Vol.3, No.2, pp.86-90, 2009 . [Citation indexed (SCOPUS)]
24. Nadia M. G. Al-Saidi, Mohamed Rushdan Md. Said, A new approach in cryptographics systems using fractal image coding, **J. Math & Stat.** Vol.5, No.3, pp.183-189, 2009 . [Citation indexed (SCOPUS)], **IF=0.76**.
25. Nadia M. G. Al-Saidi, Thanaa A. Kadhim, Using fractals in information Hiding. **Journal of Univ. of Technology. Eng. & Tech. Journal**, Vol.27, No.16, 2009.
26. Nadia M. G. Al-Saidi, Adil M. Ahmed, Fixed point theorem for fuzzy mapping in the fuzzy fractal space. **Journal of Al-Qadisiya University**, Vol. 8, 2003.

	<p>27. Nadia M. G. Al-Saidi. On the equivalence classes of Boolean function and its properties. Journal of College of Education, 2002.</p> <p>28. Nadia M. G. Al-Saidi, Sattar B. Sadkhan. Analysis of Primitive Polynomial and μ-sequence over GF(2). Journal of Babylon University, Vol 4, No.3, 1999.</p> <p>29. Nadia M. G. Al-Saidi, Sattar B. Sadkhan. Flexible method to generate combining nonlinear functions used in the design of nonlinear stream cipher systems. Journal of Univ. of Technology. Eng. & Tech. Journal, Vol 17, No. 12, 1998.</p> <p>30. Nadia M. G. Al-Saidi, Sattar.B. Sadkhan. Study the Evaluation Parameters of GEFPE and other Key Generator used with Non-Linear Stream Cipher Systems”, Computer Research Journal, Vol.1, No.1, 1997, pp.53-65.</p> <p>31. Nadia M. G. Al-Saidi, Sattar B. Sadkhan, Harith A. Al-Khatib. A new method for synthesis a sequence using a hybrid system consisting of Meier-Staffelbach and Berlekamp-Massey, Electronics Computers Journal, Vol.18, No. 26, 1995-1996, pp.58-70.</p>
--	--

Conferences Publication	
	<p>32. Nadia. M. G. Al-Saidi, N.A. Rajab, Mohamad Rushdan Md. Said and K.A. Kadhim. An Improved Information Rate of Perfect Secret Sharing Scheme Based on Dominating set of Vertices. The 13th International Conference Computational and Mathematical Methods in Science and Engineering (CMMSE 2013), June 22-29, 2013, Almería, Spain. [Citation indexed (ISI/SCOPUS)].</p> <p>33. Nadia. M. G. Al-Saidi, Nuha A. Rejab, , Mohamad Rushdan Md. Said and K. A. Kadhim, Secret Sharing Scheme Based Graph Domination. International Conference on Mathematics and Its Applications (ICMA-2013). 19-20 Aug. 2013, KL-Malaysia [Citation indexed</p>

(ISI/SCOPUS)].

34. Nadia M. G. Al-Saidi and Arkan J. Mohammed, Adil M. Ahmed. Fractal Dimension Based on Pixel Covering Method. The 9th conference on mathematics and computer application. the college of sciences **University of Mustansiriyah. Baghdad-Iraq** (6-7) May-2013.
35. Nadia M. G. Al-Saidi and Adil M. Ahmed. Fractal Fourier Coefficient. Accepted in International Conference on Mathematical Sciences and Statistics 2013 (ICMSS2013) **KL, Malaysia**, 5-7 Feb. 2013.
36. Nadia M. G. Al-Saidi. Signature Verification Based on Fractal Coding Scheme. Proceeding of the 16th WSEAS International Conference on COMPUTERS **Greece, Kos**, 14-17, 2012. [Citation indexed (ISI)].
37. Nadia Al-Saidi, Mohamad Rushdan Md Said Arkan J. Mohammed. Finite and Infinite Field Cryptography Analysis and Applications. International Conference on Applied Mathematics and Pharmaceutical Sciences (ICAMPS'2012) Jan. 7-8, **Dubai 2012**.
38. Nadia M. G. Al-Saidi. Signature Identification Scheme Based on Iterated Function Systems. International Conference on Mathematical, Computational and Statistical Sciences, and Engineering. ICMCSSE 2011, **Paris, France**, August 24-26, 2011. [Citation indexed (SCOPUS)].
39. Nadia Al-Saidi, Mohamad Rushdan Md Said, Fractal Attractor Based Digital Signature, 6th International Conference on Network Computing and advanced Information Management, IEEE, NCM2010, **Seoul, Korea**, Aug. 16-18, 2010. [Citation indexed (SCOPUS)].
40. Nadia Al-Saidi, Mohamad Rushdan Md Said, On the Security of Public Key Systems Based Iterated Function Systems. The 6th international Dynamics days Asia Pacific (DDAP6), 12-14, July, **NSW University Sydney, Australia. 2010**
41. Nadia Al-Saidi, Mohamad Rushdan Md Said, A New Public Key Cryptosystem Based on IFS. The International Cryptology Conference

	<p>2010 (Cryptology2010), 29 Jun-1 July, KL- Malaysia, 2010.</p> <p>42. Nadia M. G. Al-Saidi, Mohamad Rushdan Md Said, International conference on applied mathematics, 27-29 May, 2009, Tokyo, Japan. [Citation indexed (SCOPUS)].</p> <p>43. Nadia M. G. Al-Saidi, Mohamad Rushdan Md Said, Using fractal as an Encryption Method, Proceeding of the International Conference on Education, Technology and Computer, IEEE conference, ICETC 2009, Singapore, 17-20 April 2009. [Citation indexed (ISI/ SCOPUS)].</p> <p>44. Nadia M. G. Al-Saidi, Abdul Monem S. Rahma, and Ayad G. Nasser, The Theoretic Estimation of the Basic Criteria to Evaluate the Key Generator Efficiency before the Practical Construction". The 1st Conference of Iraqi Association of Information Technology, 17, Jan., 2009.</p> <p>45. Nadia M. G. Al-Saidi, Thenaa A. Kadhum, Using fractal in Information Hiding. Proceedings of International Cryptology Workshop and Conference 2008 (Cryptology 2008), 9-12 June 2008, Putra World Trade Centre, KL, Malaysia, 2008.</p> <p>46. Nadia M. G. Al-Saidi, Thenaa A. Kadhum, Using Fractal in Cryptography. The second conference on Mathematical sciences. CMS'2008, Department of Mathematics Faculty of Science and Information Technology, Zarqa University, Zarqa – Jordan. 22-23 Oct. 2008.</p> <p>47. Nadia M. G. Al-Saidi, Adil M. Ahmed. Fractal Image Compression Using IFSM, Sixth Jordanian International Congress of Mathematics (FJICM), Yarmouk University, Irbid-Jordan, 31 Aug.-3 Sep. 2004.</p> <p>48. Nadia M. G. Al-Saidi, Adil M. Ahmed. IFS on Fuzzy Fractal Space, Fifth Jordanian International Congress of Mathematics (FJICM), Yarmouk University, Irbid-Jordan, Sep. 3-5, 2002.</p> <p>49. Nadia M. G. Al-Saidi, Sattar B. Sadkhan. Algorithm for generating of combining nonlinear functions with a specified order of correlation</p>
--	---

	<p>immunity and calculation of such order. The third national conference of the Iraqi computer society-18-20 Oct. 1994.</p> <p>50. Nadia M. G. Al-Saidi, Mustafa Ahmed Salman, Areej F.R. Program to find irreducible Polynomial on GF(p). Proceeding of NCC conference in computer applications, 15-16 Nov, 1991.</p> <p>51. Nadia M. G. Al-Saidi, Mustafa Ahmed Salman, Areej F.R. Program to find irreducible Polynomial on GF(2). Proceeding of NCC conference in computer applications, Nov 1990.</p>
<i>Other publications Book Chapter</i>	Ariffin, M.R.K. , Al-Saidi, N.M.G. , Said, M.R.M. A new direction in utilization of chaotic fractal functions for cryptosystems. Understanding Complex Systems. Chapter 9, Springer Verlag, 2012, Pages 233-248.
<i>Computer software</i>	<p>1- Software for Fractal Image Coding using Visual Basic.</p> <p>2- Software for Fractal Public-Key Cryptography with helpful user interface using Java Net-Beans programming languages.</p> <p>3- Software for Fractal Digital Signature Protocol with helpful user interface using Java Net-Beans programming languages.</p>

Other Activities				
No.	Workshops/ Award/ Seminars	Date	Venue	Status
1-	Workshop on Publication Academic Papers	22 Dec. 2008	INSPEM-UPM	Participant
2-	Workshop in Chaos based Cryptography	28-29 Jun 2010	INSPEM-UPM	Participant
3-	PRPI, UPM 2010	20-22 July, 2010	UPM	Poster
4-	Academic Writing Workshop	24-25 July 2010	INSPEM-UPM	Presenter
5-	Lecture series 1: On the provable security of the elliptic curve cryptosystem	18-19 OCT. 2010	INSPEM-UPM	Participant
5-	Mathematics and Multidisciplinary Aspects	4-4-2012	ASD-UOT	Participant