

CV



Name: Sufyan T. Faraj Al-Janabi

Date of Birth: 29/1/1971

Religion: Muslim

Martial statues: Married

No. of children: 6

Specialization: Information Security

Position: Director of Scientific Promotion, CCSIT

Scientific Degree: Professor, Ph.D. Eng.

Work Address: College of CS and IT, University of Anbar

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■ First, Scientific Certification:

Degree science	University	College	Date
B.Sc.	Al-Nahrain	Engineering	1992
M.Sc.	Al-Nahrain	Engineering	1995
Ph.D.	Al-Nahrain	Engineering	1999
Any other			

■ **Second, Career:**

No.	Career	Workplace	From -To
1	Teacher	University of Baghdad	1999-2001
2	Head of Dept.	University of Baghdad	2001-2004
3	Dean of IT College	Al-Nahrain University	2004-2006
4	Dean of CS College	University of Anbar	2006-2010
5	Director of Promotion	University of Anbar	2011-now

■ **Third, University Teaching.**

No.	University	The (Institute / College)	From -To
1	Baghdad	Engineering	2000-2004
2	Al-Nahrain	IT	2004-2006
3	Anbar	CS and IT	2006-now
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■ **Fourth, Courses Which You Teach:**

No.	Department	Subject	Year
1	Electronic Engineering	Computer Architecture	2000-2001
2	Computer Engineering	Computer Networks, Math.	2000-2002
3	Information Engineering	Cryptography	2002-2004
4	Electrical Engineering	Internet Security	2001-2003
5	IT Engineering	Network Switching	2004-2006
6	Communication Engineering	Information Theory	2004-2005
7	Information Systems	Information Security	2007-now
8	Computer Science	Data Security	2008-now
9	Computer Science	MANETs and WSNs	2010-now

■ **Fifth, Thesis which was supervised by :**

No.	Thesis Title	Department	Year
1	Development of Automated Cryptanalysis Tool for Classical Ciphers	Anbar	M.Sc. 2016
2	Enhancing QoS and QoE for National ISPs Services in Responding to New User Demands	Sulaimaniya	M.Sc. 2016
3	Using Software Engineering Techniques for the Design and Implementation of Cryptanalysis Platform	Anbar	M.Sc. 2015
4	Towards an Intelligent Search Engine	Anbar	M.Sc. 2014
5	Biometric-Based Authentication and Key Management in WBANs for m-Health	Anbar	M.Sc. 2013
6	Distributed Data Security and Privacy in WBAN-Related e-Health Systems	Anbar	M.Sc. 2013
7	Identity and Access Management in Cloud Computing	Anbar	M.Sc. 2012

8	Building Trust in Cloud Computing	Anbar	M.Sc. 2012
9	Privacy-Preserving Distributed Data Mining	Sulaimaniya	Ph.D. 2011
10	Secure Routing and Key Management in Dynamic WSNs	Mosul	Ph.D. 2011
11	Enhanced Routing Protocols for VANETs	Anbar	M.Sc. 2011
12	Message Ferrying in Clustered MANETs	Anbar	M.Sc. 2011
13	Neural Network Based Anomaly Intrusion Detection	Anbar	M.Sc. 2010
14	Public-Key Cryptography Enabled Kerberos Authentication	Anbar	M.Sc. 2010
15	Secure E-Mail System Using Mediated and Identity-Based Cryptography	Anbar	M.Sc. 2010
16	Study and Analysis of the Cost of Unconditional Authentication in QKD	Anbar	M.Sc. 2009
17	Key Reconciliation in Quantum Cryptography	Anbar	M.Sc. 2009
18	Design and Implementation of Certificate Authority System	Technology (UOT)	M.Sc. 2008
19	Simulation Study of Wired/Wireless Fieldbus Systems	Technology (UOT)	M.Sc. 2008
20	Design and Implementation of Efficient Video Encryption System	Technology (UOT)	Ph.D. 2007
21	Timing Analysis of Hybrid Wired/Wireless PROFIBUS Networks Under Transient Faults	Baghdad	Ph.D. 2007
22	Active and Programmable Networking System	Baghdad	Ph.D. 2007
23	Neural Network Based Authentication System	Technology (UOT)	M.Sc. 2007
24	Covertness and Confidentiality of the Infranet Anti-Censorship System	Baghdad	M.Sc. 2007
25	Security of IP-Based Mobile Access Networks with QoS Support	Technology (UOT)	Ph.D. 2006
26	Design and Implementation of Open Platform Multi-Task Java Card Applets	Baghdad	M.Sc. 2006
27	Secure E-Mail System Using S/MIME and Identity-Based Cryptography	Baghdad	M.Sc. 2006
28	Design and Implementation of Windows 2000 Based Firewall System	Baghdad	M.Sc. 2005
29	Implementing Web Security Using SSL/TLS	Nahrain	M.Sc. 2005
30	Implementation of Virtual Private Network Using Transport Mode	Nahrain	M.Sc. 2005

31	Design and Implementation of SET-Enabled E-Commerce System	Mustansiriya	M.Sc. 2005
32	Development of Heterogeneous Database Simulation for CAP E-Commerce System	Baghdad	M.Sc. 2005
33	Design and Implementation of an Internet Firewall Using the Proxy Technique	Basrah	M.Sc. 2005
34	Design and Implementation of a Transparent Secure LAN	Baghdad	M.Sc. 2004
35	Protocol Conversion between ADLP80 and IEC870 Communication Protocol Standards Using Formal Methods	Baghdad	M.Sc. 2002

■ **Sixth, Conferences which you participated: (Sample)**

No.	Conferences Title	Year	Place	Type of Participation
1	University of Human Development 2 nd International Conference on Computing and Information Technology	2015	Sulaimaniyah, Iraq	TPC Chair
2	The 2 nd Scientific Conference of College of Computers - University of Anbar	2012	Ramadi, Iraq	TPC Chair
3	15 th International Conference Intelligent Transportation Systems Telecommunications	2017	Poland	TPC Member
4	2nd International Conference on Connected Vehicles & Expo (ICCVE 2013)	2013	USA	TPC Member
5	6 th International Conference on Developments in e-Systems Engineering (DeSE2013)	2013	UAE	TPC Member
6	The 13th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting	2012	UK	Researcher
7	IEEE EDUCON Education Engineering	2011	Jordan	Researcher

■ **Seventh, Scientific Activities:**

Within the College	Outside the College
Teaching	Consultancy
Research	Development
Supervision	
Advising	

Eighth, Research Projects in The Field of Specialization to The Environment and Society or the Development of Education:

No.	Research Title	Place of Publication	Year
1	<i>Real-Life Enhancement of QoE for Social Network Applications</i>	Annual Conference on New Trends in Information & Communications Technology Applications (NTICT 2017), Baghdad	2017
2	<i>On the Necessity of Establishing a National Cybersecurity Testbed</i>	Journal of University of Human Development, Vol.2, No.4, pp. 428-436	2016
3	<i>Architectural Design of General Cryptanalysis Platform for Pedagogical Purposes</i>	<i>i-manager's Journal on Software Engineering, Vol. 11, No. 1,</i>	2016
4	<i>Towards a Framework for Supporting Unconditionally-Secure Authentication Services within E-Government Infrastructures,</i>	Journal of University of Human Development, Vol.2, No.3.	2016
5	<i>Proposed Approach for Enhancement of QoE to Support e-Society</i>	Journal of University of Human Development, Vol.2, No.3.	2016
6	<i>Web Search Enhancement Using WordNet Query Expansion Technique</i>	Journal of University of Human Development, Vol.2, No.3.	2016
7	<i>An Enhanced Algorithm for Hiding Sensitive Association Rules Based on ISL and DSR Algorithms</i>	International Journal of Computing and Network Technology (IJCNT) , University of Bahrain, Bahrain, No. 3, Vol.3	2015
8	<i>Hiding Association Rules over Privacy Preserving Distributed Data Mining</i>	Kirkuk University Journal- Scientific Studies, Vol. 9, No.1, pp. 59-72.	2014
9	<i>Enhancing the Security and Privacy of WBAN-Based Distributed Storage Systems</i>	Journal of UHD, Vol.1, No.2	2015
10	<i>Development and Simulation of Enhanced Key Management Scheme for WBANs</i>	Journal of UHD, Vol.1, No.2	2015
11	<i>Efficient Symmetric and Heterogeneous Mobile Group-Based Key Management Protocol</i>	the 6th International Conference on Developments in e-Systems Engineering (DeSE2013), Abu Dhabi	2013
12	<i>Biometric-Based Authentication and Key Management Scheme for WBANs</i>	<i>i-manager's Journal on Information Technology (JIT)</i> , Vol. 2, No. 2, pp. 23-31.	2013
13	<i>Trusted E-Contracts in Collaborative Intra-Cloud Business-to-Business Environments</i>	<i>i-manager's Journal on Communication Engineering and Systems (JCS)</i> , Vol. 2, No. 3, pp. 1-12	2013
14	<i>Distributed Data Security and Privacy in WBAN-Related e-Health Systems</i>	AL-Mansour Journal, No.20, pp. 121-132	2013
15	<i>Hiding Sensitive Frequent Itemsets over Privacy Preserving Distributed Data Mining</i>	Rafidain J. of Comp. & Math's., Vol. 10, No. 1, pp. 91-105, University of Mosul	2013
16	<i>Mediated IBC-Based Management System of Identity and Access in Cloud Computing</i>	Tikrit Journal of Engineering Sciences, Vol. 20, No. 3, pp.75-86, Tikrit University, Iraq	2013

17	<i>Privacy Preserving Distributed Knowledge Discovery: Survey and Future Directions</i>	Int. J. Reasoning-based Intelligent Systems, Vol. 4, No. 4, pp. 235-244	2012
18	<i>Message Ferrying-Ad Hoc On Demand Distance Vector (MF-AODV) Protocol</i>	The 13th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting (PGNET 2012), Liverpool, UK	2012
19	<i>The Bus Ad hoc On-demand Distance Vector (BAODV) Routing Protocol</i>	The 13th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting (PGNET 2012), Liverpool, UK	2012
20	<i>Email Security Using Two Cryptographic Hybrids of Mediated and Identity-Based Cryptography</i>	i-manager's Journal on Software Engineering (JSE), Vol. 6, No. 3, pp. 1-12	2012
21	<i>Development of Certificate Authority Services for Web Applications</i>	Proceedings of the First International Conference on Future Communication Networks (ICFCN '2012), pp. 135-140, Baghdad	2012
22	<i>Privacy Preserving Distributed Knowledge Discovery: Survey and Future Directions</i>	Journal of university of Anbar for Pure science, Volume 6, Issue 2	2012
23	<i>Management of Identity and Access in the Cloud</i>	Journal of university of Anbar for Pure science, Volume 6, Issue 2	2012
24	<i>Trusted Cloud Computing</i>	Journal of university of Anbar for Pure science, Volume 6, Issue 2	2012
25	<i>Key Management Scheme for Mobile Wireless Sensor Networks</i>	Journal of university of Anbar for Pure science, Volume 6, Issue 2	2012
26	<i>Performance Evaluation of AODV and DSDV Routing Protocols Using CityMob in VANETs</i>	i-manager's Journal on Communication Engineering and Systems (JCS), Vol. 1, No. 1, pp. 1-10	2012
27	<i>Reforming the Higher Education System in Iraq</i>	<i>Internationalization via Decentralization</i> , i-manager's Journal of Educational Technology, India, Volume 8, No. 3, pp. 1-14	2011
28	<i>Simulation Study of Wired/Wireless Fieldbus Systems Using Store and Forward Mode</i>	Journal of Engineering and Technology, University of Technology, Baghdad, Vo1. 29, No. 16, pp. 3271-3290	2012
29	<i>Enhancement of E-Government Security Based on Quantum Cryptography</i>	Proceedings of the International Arab Conference on Information Technology (ACIT'2011), Naif Arab University for Security Science (NAUSS), Riyadh, Saudi Arabia	2011
30	<i>Public-Key Cryptography Enabled Kerberos Authentication</i>	Proceedings of the Fourth International Conference on Developments in eSystems Engineering (DeSE '2011), The British University in Dubai, UAE	2011
31	<i>A Neural Network Based Anomaly Intrusion Detection System</i>	Proceedings of the Fourth International Conference on Developments in eSystems Engineering (DeSE '2011), The British University in Dubai, UAE	2011
32	<i>Video Encryption Based on Special Huffman Coding and Rabbit Stream Cipher</i>	Proceedings of the Fourth International Conference on Developments in eSystems Engineering (DeSE '2011), The British University in Dubai, UAE	2011

33	<i>Key Reconciliation Techniques in Quantum Key Distribution</i>	Proceedings of the First Engineering Conference of the College of Engineering, University of Anbar, Ramadi, Iraq	2011
34	<i>Development of an Anti-Censorship System</i>	Proceedings of the First Engineering Conference of the College of Engineering, University of Anbar, Ramadi, Iraq	2011
35	<i>On the Development of NDIS Intermediate Driver-Based Virtual Private Networks</i>	Proceedings of the Third International Scientific Conference of Salahaddin University-Erbil	2011
36	<i>Proxy-Based Internet Gateways</i>	Proceedings of the Second Scientific Conference on Applied Scientific Research, Babylon University, Babylon, Iraq	2011
37	<i>Development of Secure e-Payment System</i>	Proceedings of the Second Scientific Conference on Applied Scientific Research, Babylon University, Babylon, Iraq	2011
38	<i>A Framework for Management of Water Resources Based on Internet-Enabled Wireless Sensor Networks</i>	University of Anbar Symposium on Water Resources, Ramadi	2011
39	<i>Combining Mediated and Identity-Based Cryptography for Securing E-Mail</i>	The International Conference on Digital Enterprise and Information Systems (DEIS2011), London Metropolitan Business School, pp. 1-15	2011
40	<i>Reducing the Authentication Cost in Quantum Cryptography</i>	The 12th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting (PGNet2011), pp. 363-368	2011
41	<i>Nahrainfish: A Green Cryptographic Block Cipher</i>	The First Saudi International Electronics, Communications and Electronics Conference (SIECPC'11), Riyadh	2011
42	<i>Strategic Plan for Enhancing Higher Education Computing Degree Programs in Iraq</i>	IEEE EDUCON Education Engineering, Amman, Jordan	2011
43	<i>Towards Long-Term International Collaboration in Computer Science Education</i>	IEEE EDUCON Education Engineering, Amman, Jordan	2011
44	<i>Windows-Based Active-Router Architecture</i>	Journal of University of Anbar for Pure Science, Vol.4, No.3, pp.112-119	2010
45	<i>Balancing Centralization and Decentralization in Iraqi Higher Education</i>	Proceedings of the Midwest Regional Comparative and International Society Conference, MI, USA	2010
46	<i>Enhancement of Student Programming Skills Using Distributed Collaborative Programming</i>	Proceedings of the Midwest Regional Comparative and International Society Conference, MI, USA	2010
47	<i>Integrating Quantum Cryptography into SSL</i>	Ubiquitous Computing and Communication Journal, Vol. 5, Special Issue of Ubiquitous Computing Security Systems, Korea, pp. 1778-1788	2010
48	WINDOWS-BASED ACTIVE-ROUTER DESIGN AND EVALUATION	Proceedings of the 6th International Multi-Conference on Systems, Signals and Devices (SSD'09), Vol. III, Tunisia	2009
49	<i>Hybrid Wired/Wireless Profibus Timing Analysis Under Transient Faults</i>	i-Manager's Journal on Software Engineering Vol.3, No.1: 12-22.	2008

50	<i>A Novel Extension of SSL/TLS Based on Quantum Key Distribution</i>	Proceedings of the International Conference on Computer and Communication Engineering 2008 (ICCCE08), VOLUME I, pp. 919-922, Malaysia	2008
51	<i>Investigation of Java Smart Card Technology for Multi-Task Applications</i>	Proceedings of the First Scientific Conference of College of Computers, University of Anbar (CCIT2008), pp. 12-20, Ramadi	2008
52	<i>Towards a Strategy for the Sustainable Development of IT Section in A-Anbar Province</i>	Symposium of Sustainable Development of Al-Anbar, University of Anbar, Ramadi, Iraq	2008
53	<i>Block Cipher Design after AES and the New Cipher Nahrainfish</i>	i-manager's Journal on Software Engineering, India, Vol. 1, No. 4, pp.46-61	2007
54	<i>PROFIBUS Timing Analysis Under Transient Faults</i>	Asian Journal of Information Technology, Medwell Online, Pakistan, Vol.6, No.7, pp. 806-816	2007
55	<i>Inaccessibility in PROFIBUS due to transient faults</i>	Proceedings of the International Arab Conference on Information Technology (ACIT' 2007), Syria	2007
56	<i>Design and Implementation of SET-Enabled E-Commerce System</i>	Journal of Engineering and Development, College of Engineering, Al-Mustansiriya University, Baghdad, Iraq	2009
57	<i>Unconditionally Secure Authentication in Quantum Key Distribution</i>	i-manager's Journal on Software Engineering, India, Vol. 1, No. 3, pp.31-42	2007
58	<i>General Two-Party Oblivious Circuit Evaluation</i>	Proceedings of the 18 th International Conference on Microelectronics (ICM 2006), pp. 210-213, KFUPM, Dhahran, KSA	2006
59	<i>Towards Arab Scientific Collaboration in the Field of Quantum Cryptography</i>	Proceedings of the 4 th Symposium on Scientific Research and Technological Development Outlook in the Arab World, Damascus, Syria	2006
60	<i>Transparent Security System for LAN Communications</i>	Asian Journal of Information Technology, Medwell Online, Pakistan, Vol.5, No.8, pp. 834-847	2006
61	<i>Secure E-Mail System Using S/MIME and IB-PKC</i>	Proceeding of the 6 th International Philadelphia Engineering Conference (IPEC 2006), Amman, Jordan, pp. 713-722	2006
62	<i>Key Exchange Protocol Supporting Mobility and Multihoming</i>	i-manager's Journal on Software Engineering, India, Vol. 1, No. 2, pp.52-70	2006
63	<i>Defeating a man-in-the-middle attack in quantum key distribution</i>	Proceedings of the 5 th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP'06), Greece	2006
64	<i>A Novel Quantum Cryptographic Error Elimination Technique Using Simple Hamming Codes</i>	Proceedings of the International Conference on Advanced Remote Sensing for Earth Observation Systems, KACST and ISPRS,	2005
65	<i>Toward Commercial Applications of Quantum Cryptography in Arab Countries</i>	Proceedings of the International Conference on Advanced Remote Sensing for Earth Observation Systems, KACST and ISPRS,	2005
66	<i>Building Cryptographic Primitives Based on Single-Channel Quantum Cryptography</i>	Journal of Engineering and Development, College of Engineering, Al-Mustansiriya University, No. 5, Vol. 6, Baghdad, Iraq	2002
67	<i>Two-Party Oblivious Circuit Evaluation</i>	Proceedings of the 3 rd National Conference on CCCSE, Baghdad, Iraq	2002
68	<i>Protocol Conversion Between ADLP80 and IEC870 Communication Protocol Standards using Formal Methods</i>	Journal of Engineering, College of Engineering, University of Baghdad, No. 3, Vol. 8	2002

69	<i>Modeling and Simulation of Secure Optical Networks Based on Quantum Cryptography</i>	Iraqi Journal for Electrical and Electronic Engineering, University of Basrah, Iraq	2002
70	<i>Optical Network Models for Quantum Cryptography</i>	Proceeding of 17 th IFIP/Sec2002 Conference, Part 10, No. 35, Egypt	2002
71	<i>Development of Optical Network Models for Quantum Cryptography;</i>	Iraqi Patent No.3009	2001
72	<i>Quantum Cryptographic Key Distribution in Multiple-Access Networks</i>	Proceeding of 16 th IFIP World Computer Congress, Vol. I, pp. 42-49, China	2000
73	<i>Error Elimination and Privacy Amplification in Single-Channel Quantum Cryptography</i>	Proceeding of 2 nd National Conference on Data and Computer Security, Baghdad	2000
74	<i>Simulation of a Quantum Cryptographic Protocol</i>	Proceedings of Al-Hadba' Conference on Informatics and Software Engineering, Mosul, Iraq	2000
75	<i>Quantum Cryptography: A New Dimension in Optical Network Security</i>	Proceedings of 9 th National Computer Center Conference, Baghdad	1999
76	<i>Development of New Secure Optical Network Models Based on Quantum Cryptography</i>	Proceedings of the Federation of Arab Scientific Research Councils Conference on Super-Highway Networks, Algeria	1999
77	<i>Microprocessor Controlled Voltage Regulator for Space Based Power Systems; (extended version)</i>	Journal of Nahrain University: Engineering, Vol.2, No.2, pp. 1-12, Baghdad	1998
78	<i>Microprocessor Controlled Voltage Regulator for Space Based Power Systems</i>	Proceeding of 6 th International Conference on Computer Systems and Applications, CSS and IEEE, Egypt	1996
79	<i>Query Reformulation Using WordNet and Genetic Algorithm</i>	Annual Conference on New Trends in Information & Communications Technology Applications (NTICT 2017), Baghdad	2017
80	<i>Intelligent Techniques in Cryptanalysis: Review and Future Directions</i>	The 4 th International Conference of University of human Development (UHD), Sulaimaniya, KRG- Iraq	2017

Ninth, Membership:

- Iraqi Engineers Union (IEU) - Consultant Engineer.
- Member of [IEEE](#) - Communications, Computer, and Information Theory Societies.
- Association for Computing Machinery ([ACM](#))
- American Society for Engineering Education ([ASEE](#))
- International Association for Cryptologic Research ([IACR](#))
- Intel Academic Community ([Intel.com](#))
- Arab Computer Society ([ACS](#))

Tenth, Awards and Certificates of Appreciation:

No.	Name of Awards and Certificates	Donor	Year
1	Winner of the 1 st and 2 nd Awards for the Best Research Paper in Information Security	from the Association of Arab Universities (AARU), Jordan	2003
2	Number of Appreciation Letters	University Presidents of Baghdad, Nahrain, Anbar, Mosul, and University of Technology	2001- now
3	Number of Appreciation Letters	Number of College Deans	2000- now
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■ **Eleventh, Scientific literature:**

No.	Scientific Literature Title	Year of The Publication
1	INTELLIGENT TECHNIQUES AND CONSTRUCTIVE APPROACHES IN COMPUTING AND INFORMATION TECHNOLOGY, Special Issue (Ed.), Int. J. Reasoning-based Intelligent Systems, Inderscience Enterprises Ltd	2012
2	<i>QUANTUM CRYPTOGRAPHIC KEY DISTRIBUTION IN OPTICAL NETWORKS</i> , Lambert Academic Publishing (LAP), OmniScriptum GmbH & Co. KG, Germany, ISBN 978-3-330-00474-0	2016
3	<i>OPTICAL NETWORK MODELS FOR QUANTUM CRYPTOGRAPHY</i> , in "Security in the Information Society", IFIP Advances in Information and Communication Technology, M. Adeb Ghonaimy, Mahmoud T. El-Hadidi, and Heba K. Aslan, Eds., Springer-Verlag US, Volume 86, ISBN 978-0-387-35586-3	2002
4	<i>QUANTUM KEY DISTRIBUTION NETWORKS</i> , in "Multidisciplinary Perspectives in Cryptology and Information Security", Sattar Sadkhan and Nidaa Abbas, Eds., IGI Global, ISBN13: 9781466658080; ISBN10: 1466658088; EISBN13: 9781466658097	2014

■ **Twelfth, languages:**

- ✓ Arabic
- ✓ English

***Note: - Make a copy on CD.**