

Curriculum Vitae

Name: Sufyan Taih Faraj Al-Janabi

(B.Sc. Eng., M.Sc. Eng., Ph.D. Eng., Prof.)

Academic Rank: Professor of Information Security

Status: Married

Nationality: Iraqi

Place and Date of Birth: Al-Anbar, Iraq (1971)

Work Address: College of Computer Science and IT
University of Anbar
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Google Scholar Citations: <https://scholar.google.com/citations?user=Oy7bOIAAAAAJ&hl=en>

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Qualifications:

- ◆ **Ph.D.-**Electronic and Communications Engineering/Quantum Cryptography, College of Engineering, Nahrain University, Baghdad, Iraq, 1999.
Thesis Title: Quantum Cryptographic Key Distribution in Optical Communication Networks
- ◆ **M.Sc.-**Electronic and Communications Engineering/Microprocessor-Based Systems, College of Engineering, Nahrain University, Baghdad, Iraq, 1995.
Thesis Title: Microprocessor-Controlled Voltage Regulator for Satellite Systems
- ◆ **B.Sc.-**Electronic and Communications Engineering, College of Engineering, Nahrain University, Baghdad, Iraq, 1992.
- ◆ **Secondary School:** Ranked as the First student in Al-Anbar Province, Iraq in the general final examinations of Ministry of Education (Baccalaureate) for and High (Secondary) Schools (Level 12) in 1987/1988.
- ◆ **Intermediate School:** Ranked as the First student in Al-Anbar Province, Iraq in the general final examinations of Ministry of Education (Baccalaureate) for Intermediate Schools (Level 9) in 1984/1985.

Professional Experience:

- ◆ **Professor of Information Security:** [October, 2013 – up to date]
College of Computer Science and IT, University of Anbar, Iraq.
- ◆ **Director of Scientific Promotion:** [Sept., 2010 – up to date]
College of Computer Science and IT, University of Anbar, Iraq.
- ◆ **Coordinator of University of Anbar Advisory Board:** [January 2017- up to date]
University of Anbar, Ramadi, Iraq.
- ◆ **Visiting Research Fellow:** [December, 2011 – January, 2012]
Liverpool John Moores University, Liverpool, UK.
- ◆ **Visiting Scholar (DELPHE Program):** [June, 2011 – July, 2011]
Liverpool John Moores University, Liverpool, UK.
- ◆ **Fulbright Visiting Scholar:** [July, 2010 – Sept, 2010]
Eastern Michigan University, Ypsilanti, MI, USA.
- ◆ **Dean of College of Computer:** [July, 2006 – May, 2010]
University of Anbar, Iraq.
- ◆ **Iraq Engineering Enhancement Program (IEEP) Fellow:** [Aug., 2009 – Nov., 2009]
Whitacre College of Engineering, Texas Tech University, TX, USA.
- ◆ **Visiting Scholar:** [March, 2008 – April, 2008]
College of Engineering, King Saud University, Riyadh, KSA.
- ◆ **Dean of College of Information Technology:** [May, 2004 – July, 2006]
Nahrain University, Baghdad, Iraq.
- ◆ **Associate Professor:** [May, 2003 – May, 2004]
Computer Engineering Dept., University of Baghdad, Iraq.
- ◆ **Visiting Assistant Professor:** [Oct., 2002 – Dec., 2002]
College of Computer Science and Information Systems, Thamar University, Yemen.
- ◆ **Head of Information Engineering Dept.:** [Dec., 2001- Sept.,2002]
College of Engineering, University of Baghdad, Iraq.
- ◆ **Head of Computer Engineering Dept.:** [Dec., 2001-Aug., 2003]
College of Engineering, University of Baghdad, Iraq.
- ◆ **Assistant Professor:** [May, 2000 – May, 2003]
Computer Engineering Dept., University of Baghdad, Iraq.
- ◆ **Lecturer:** [Sept., 1999 – May, 2000]
Computer Engineering Dept., University of Baghdad, Iraq.
- ◆ **Consultant IT Engineer:** [Since Jan. 2000]
Several companies and institutions such as: State Company for Internet Services (Baghdad), General Systems Company (Baghdad), and Ministry of Electricity (Iraq).
- ◆ **Professional Certification (Sample):**
Summer University Certificate in C++, Jordan 2002; Alumni University “Study Abroad” Certificate, Sulaimani 2015;
Alumni University “Basic Leadership Skills” Certificate, Sulaimani 2015.

Awards & Fellowships:

- ◆ **The RIPE Academic Cooperation Initiative (RACI) Fellowship** for the Middle East Network Operators Group (MENOG 17), Muscat, Oman, from 16-21 April 2017.
- ◆ **Research Fellowship**, Liverpool John Moores University, UK, 2012.
- ◆ **DELHPE-Iraq Visiting Scholar Fellowship 2011.**

- ◆ **Fulbright Visiting Scholar Program (FVSP) Fellowship 2010.**
- ◆ **Iraq Scientist Engagement Program (ISEP) Fellowship 2009.**
- ◆ Winner of the 1st and 2nd Awards for the **Best Research Paper in Information Security** from the Association of Arab Universities (AARU), Jordan, 2003.

Memberships:

- ◆ 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](#))
- ◆ Member of the Internet Society (<https://www.internetsociety.org>)

Subjects Taught:

- ◆ **Undergraduate Courses:**
Computer Networks, Cryptography, Information Security, Computing and Society, Computer Architecture, C++ Programming, Mathematics, Advanced Mathematics, Discrete Structures, Theory of Probability and Statistics, Information Theory and Coding, Project Management, Computer Ethics, and Physics of Materials.
- ◆ **Postgraduate Courses:**
Internet Protocols, Information Security, Selected Topics in Cryptography, Performance Analysis of Computer Networks, Parallel Processing, Queuing Theory, Switching Techniques, Network Security, MANETs and WSNs, Information and Coding Theory, Quantum Information Technology, Quantum Cryptography, and IoT.

Conference Chairing:

- ◆ TPC Chair, College of Science and Technology, University of Human Development 4th International Conference, Sulaimaniyah, KRG- Iraq, 9-10 April 2017.
- ◆ TPC Chair, College of Science and Technology, University of Human Development 3rd International Joint Conference, Sulaimaniyah, KRG- Iraq, 6-7 April 2016.
- ◆ TPC Chair, University of Human Development 2nd International Conference on Computing and Information Technology 2015 (UHDComp'15), Sulaimaniyah, KRG- Iraq, 1-2 April 2015.
- ◆ Chairman of the Scientific Committee, The 2nd Scientific Conference of College of Computers (CCIT 2012), University of Anbar, Ramadi, Iraq, 27-28 March 2012.
- ◆ General Chairman, The 1st Scientific Conference of College of Computers, University of Anbar, Ramadi, 14-15 April 2008.

Membership of Committees in Conferences and Workshops (Sample):

- ◆ TPC member of the International Conference on Intelligent Transportation Systems Telecommunications (ITST) Series (2012- 2018).
- ◆ TPC member of the 1st International Conference on Computer Applications & Information Security (ICCAIS' 2018), Riyadh, Saudi Arabia, April 4-6, 2018 <http://www.iccais.tech/ctopicpf/>

- ◆ TPC member of the 21st National Computer Conference (NCC'2018), Riyadh, Saudi Arabia, April 25-26, 2018, <http://www.scs-ncc.tech/ctopicpf/>.
- ◆ TPC member of the Seventh International Conference on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2018), June 24-28, 2018 - Venice, Italy, <http://www.iaria.org/conferences2018/VEHICULAR18.html> .
- ◆ Member of the Advisory Committee for Computer Science/Information Technologies, I-manager's International Conference on Engineering and Technologies (IICET 2015), Trivandrum, Kerala, India, 10-11 April 2015.
- ◆ TPC Member of 2015 Global Summit on Computer & Information Technology (GSCIT' 2015), 11-13 June, Sousse, Tunisia.
- ◆ TPC member of the International Conference on Developments in e-Systems Engineering (DeSE) Series (2012-2013).
- ◆ TPC member of the International Conference on Connected Vehicles & Expo (ICCVE) Series (2012- 2013).
- ◆ TPC member of the IIAI International Conference on e-Services and Knowledge Management (ESKM) Series (2012-2013), Japan.
- ◆ Member of Technical Committee, International Arab Conference on Information Technology (ACIT) Series (2007-2012).
- ◆ Member of TPC, First International Conference on Future Communication Networks (ICFCN '2012), Baghdad, Iraq, April 2012.
- ◆ Member of the Steering Committee of The 1st Workshop of Arab IT Experts, FARC, Damascus, Syria, 5-8 April 2005.
- ◆ Member of the Organization Committee of The 3rd National Conference on Computer, Communication, Control, and Systems Engineering (CCCSE), Baghdad, 18-19 December, 2002.

Journals:

- ◆ Editor-in-Chief: i-manager's Journal on Communication Engineering and Systems (March 2017- up to date).
- ◆ Member of Advisory Board of UHD Journal of Science and Technology, e-ISSN: 2521-4217, p-ISSN: 2521-4209, DOI: 10.21928/issn.2521-4217, <http://jst.uhd.edu.iq/> (Since 2017).
- ◆ Member of the Advisory Board of the Iraqi Journal on Electrical and Electronic Engineering, Basrah University, Iraq, since 2015.
- ◆ Member of the Editorial Board of i-manager's Journal on Cloud Computing (JCC), since 2014.
- ◆ Member of the Editorial Board of The International Arab Journal of Information Technology (IAJIT), CCIS, Amman, Jordan [2007-2013].
- ◆ Member of the Editorial Board of i-manager's Journal on Software Engineering (JSE), India, since 2008 up to date.
- ◆ Member of the Editorial Board of the International Journal of Reasoning-based Intelligent Systems (IJRIS), Inderscience Publishers, Switzerland, since 2012.
- ◆ Member of the Editorial Board of i-manager's Journal on Communication Engineering Systems (JCS), India [2011-2016].
- ◆ Member of the Scientific committee of the Journal of University of Anbar for Pure Science, since 2009 up to date.
- ◆ Member of the Scientific committee of the Journal of University of Anbar for Engineering, since 2010 up to date.
- ◆ Active *reviewer* and *consultant* for a number of international (including some Springer Journals) and national scientific journals.

Theses Supervision & Examination:

- ◆ *Supervisor* and co-supervisor of more than 30 M.Sc. and Ph.D. theses and dissertations at different Iraqi universities.
- ◆ *Chairman* and member of many examination committees (Viva) of Ph.D. and M.Sc. Students at different Iraqi universities.

Patents:

- ◆ *Development of Optical Network Models for Quantum Cryptography*; Iraqi Patent No.3009, 9/12/2001.

Books:

- ◆ *INTELLIGENT TECHNIQUES AND CONSTRUCTIVE APPROACHES IN COMPUTING AND INFORMATION TECHNOLOGY*, Special Issue (Ed.), Int. J. Reasoning-based Intelligent Systems, Vol. 4, No. 4, 2012, Inderscience Enterprises Ltd.
- ◆ *QUANTUM CRYPTOGRAPHIC KEY DISTRIBUTION IN OPTICAL NETWORKS*, Lambert Academic Publishing (LAP), OmniScriptum GmbH & Co. KG, Germany, 2016, ISBN 978-3-330-00474-0.
<https://www.lap-publishing.com/catalog/details//store/gb/book/978-3-330-00474-0/quantum-cryptographic-key-distribution-in-optical-networks>

Book Chapters:

- ◆ *OPTICAL NETWORK MODELS FOR QUANTUM CRYPTOGRAPHY*, 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, 2002, pp 435-451, ISBN 978-0-387-35586-3.
- ◆ *QUANTUM KEY DISTRIBUTION NETWORKS*, in "Multidisciplinary Perspectives in Cryptology and Information Security", Sattar Sadkhan and Nidaa Abbas, Eds., IGI Global, 2014, ISBN13: 9781466658080; ISBN10: 1466658088; EISBN13: 9781466658097;
www.igi-global.com/book/multidisciplinary-perspectives-cryptology-information-security/94862 .

Publications:

1. *Classification and Identification of Classical Cipher Type Using Artificial Neural Networks*; Journal of Engineering and Applied Sciences, Medwell Journals, 2018 (Accepted).
2. *Reporting on the Use of DSDM for Graduate Study Based Cryptanalysis Projects*; Al-Sadiq Second International Conference on Multidisciplinary in IT and Communication Science and Applications, Baghdad, November 22-24, 2017.
3. *Intelligent Techniques in Cryptanalysis: Review and Future Directions*, UHD Journal of Science and Technology, University of Human Development (UHD), Sulaimaniya, KRG- Iraq, Vol.1, No.1, pp. 1-9, 2017. (e-ISSN: 2521-4217, p-ISSN: 2521-4209), DOI: 10.21928/uhdjst.v1n1y2017.pp1-10.
4. *Real-Life Enhancement of QoE for Social Network Applications*, Annual Conference on New Trends in Information & Communications Technology Applications (NTICT 2017), Baghdad, 7-9 March 2017 pp. 63-68 (978-1-5386-2962-8/17/\$31.00 ©2017 IEEE 63).
5. *Query Reformulation Using WordNet and Genetic Algorithm*; Annual Conference on New Trends in Information & Communications Technology Applications (NTICT 2017), Baghdad, 7-9 March 2017, pp. 91-96 (978-1-5386-2962-8/17/\$31.00 ©2017 IEEE 91).
6. *On the Necessity of Establishing a National Cybersecurity Testbed*, Journal of University of Human Development, Vol.2, No.4, Dec. 2016, pp. 428-436, <http://dx.doi.org/10.21928/juhd.20161225.20> .

7. *Architectural Design of General Cryptanalysis Platform for Pedagogical Purposes*, *i-manager's Journal on Software Engineering*, Vol. 11, No. 1, July - September 2016, pp.1-12.
8. *Towards a Framework for Supporting Unconditionally-Secure Authentication Services within E-Government Infrastructures*, *Journal of University of Human Development*, Vol.2, No.3. August 2016 /pp490-497. <http://dx.doi.org/10.21928/juhd.20160203.24>
9. *Proposed Approach for Enhancement of QoE to Support e-Society*, *Journal of University of Human Development*, Vol.2, No.3. August 2016 /pp534-541. <http://dx.doi.org/10.21928/juhd.20160203.31>
10. *Web Search Enhancement Using WordNet Query Expansion Technique*, *Journal of University of Human Development*, Vol.2, No.3. August 2016 /pp542-547. <http://dx.doi.org/10.21928/juhd.20160203.32>
11. *An Enhanced Algorithm for Hiding Sensitive Association Rules Based on ISL and DSR Algorithms*, [International Journal of Computing and Network Technology \(IJCNT\)](#), University of Bahrain, Bahrain, No. 3, Vol.3, Sept. 2015
12. *Hiding Association Rules over Privacy Preserving Distributed Data Mining*; *Kirkuk University Journal- Scientific Studies*, Vol. 9, No.1, 2014, pp. 59-72.
13. *Enhancing the Security and Privacy of WBAN-Based Distributed Storage Systems*; *Journal of UHD Journal*, Vol.1, No.2, pp. 288-294, 2015 (Papers of the 1st Scientific Conference of the University of Human Development, Sulaimaniya, Iraq, 1-2 April, 2014).
14. *Development and Simulation of Enhanced Key Management Scheme for WBANs*; *Journal of UHD*, Vol.1, No.2, pp. 280-287, April 2015 (Papers of the 1st Scientific Conference of the University of Human Development, Sulaimaniya, Iraq, 1-2 April, 2014).
15. *Efficient Symmetric and Heterogeneous Mobile Group-Based Key Management Protocol*; the 6th International Conference on Developments in e-Systems Engineering (DeSE2013), Abu Dhabi, UAE, 16-18 Dec. 2013.
16. *Biometric-Based Authentication and Key Management Scheme for WBANs*; *i-manager's Journal on Information Technology (JIT)*, Vol. 2, No. 2, March – May, 2013, pp. 23-31.
17. *Trusted E-Contracts in Collaborative Intra-Cloud Business-to-Business Environments*; *i-manager's Journal on Communication Engineering and Systems (JCS)*, Vol. 2, No. 3, May – July, 2013, pp. 1-12.
18. *Distributed Data Security and Privacy in WBAN-Related e-Health Systems*; *AL-Mansour Journal*, No.20, pp. 121-132, 2013 (Special Issue of the Proceeding of The 12th Scientific Conference of Al-Mansour University College, Baghdad, Iraq, 4-5 May, 2013).
19. *Hiding Sensitive Frequent Itemsets over Privacy Preserving Distributed Data Mining*; *Rafidain J. of Comp. & Math's*. (Special Issue of the 5th Scientific Conference on Information Technology, Dec. 19-20, 2012), Vol. 10, No. 1, pp. 91-105, University of Mosul, Iraq, 2013.
20. *Mediated IBC-Based Management System of Identity and Access in Cloud Computing*, The 3rd Engineering Conference, College of Engineering, Tikrit University, 11-12 December, 2012 (Appeared in *Tikrit Journal of Engineering Sciences*, Vol. 20, No. 3, pp.75-86, Tikrit University, Iraq, 2013.).
21. *Privacy Preserving Distributed Knowledge Discovery: Survey and Future Directions* (extended version); Special Issue: INTELLIGENT TECHNIQUES AND CONSTRUCTIVE APPROACHES IN COMPUTING AND INFORMATION TECHNOLOGY, Sufyan Al-Janabi and Jawad Ali, Eds., Inderscience Enterprises Ltd, *Int. J. Reasoning-based Intelligent Systems*, Vol. 4, No. 4, 2012, pp. 235-244.
22. *Message Ferrying-Ad Hoc On Demand Distance Vector (MF-AODV) Protocol*, The 13th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting (PGNET 2012), 25th and 26th June, 2012, Liverpool, UK, pp. 328-333.
23. *The Bus Ad hoc On-demand Distance Vector (BAODV) Routing Protocol*; The 13th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting (PGNET 2012), 25th and 26th June, 2012, Liverpool, UK, pp. 7-12.
24. *Email Security Using Two Cryptographic Hybrids of Mediated and Identity-Based Cryptography*; *i-manager's Journal on Software Engineering (JSE)*, Vol. 6, No. 3, pp. 1-12, January – March 2012, India.

25. *Development of Certificate Authority Services for Web Applications*; Proceedings of the First International Conference on Future Communication Networks (ICFCN '2012), pp. 135-140, Baghdad, Iraq, 10-12 April, 2012 (IEEE Xplore).
26. *Privacy Preserving Distributed Knowledge Discovery: Survey and Future Directions*; Proceedings of the Second Conference of College of Computer, University of Anbar (CCIT 2012), Ramadi, Iraq, 4-5 April, 2012.
27. *Management of Identity and Access in the Cloud*; Proceedings of the Second Conference of College of Computer, University of Anbar (CCIT 2012), Ramadi, Iraq, 4-5 April, 2012 (Special Issue: Journal of university of Anbar for Pure science, Volume 6, Issue 2, 2012, pp. 22-33).
28. *Trusted Cloud Computing*; Proceedings of the Second Conference of College of Computer, University of Anbar (CCIT 2012), Ramadi, Iraq, 4-5 April, 2012 (Special Issue: Journal of university of Anbar for Pure science, Volume 6, Issue 2, 2012, pp. 6-13).
29. *Key Management Scheme for Mobile Wireless Sensor Networks*; Proceedings of the Second Conference of College of Computer, University of Anbar (CCIT 2012), Ramadi, Iraq, 4-5 April, 2012 (Special Issue: Journal of university of Anbar for Pure science, Volume 6, Issue 2, 2012, pp. 58-64).
30. *Performance Evaluation of AODV and DSDV Routing Protocols Using CityMob in VANETs*, i-manager's Journal on Communication Engineering and Systems (JCS), Vol. 1, No. 1, pp. 1-10, November 2011 - January 2012, India.
31. *Reforming the Higher Education System in Iraq: Internationalization via Decentralization*, i-manager's Journal of Educational Technology, India, Volume 8, No. 3, pp. 1-14, October – December Issue, 2011.
32. *Simulation Study of Wired/Wireless Fieldbus Systems Using Store and Forward Mode*, Journal of Engineering and Technology, University of Technology, Baghdad, Vol. 29, No. 16, pp. 3271-3290, 2012.
33. *Enhancement of E-Government Security Based on Quantum Cryptography*, Proceedings of the International Arab Conference on Information Technology (ACIT'2011), Naif Arab University for Security Science (NAUSS), Riyadh, Saudi Arabia, 11-14 December, 2011.
34. *Public-Key Cryptography Enabled Kerberos Authentication*, Proceedings of the Fourth International Conference on Developments in eSystems Engineering (DeSE '2011), The British University in Dubai, UAE, 6th-8th December 2011, pp. 209-214 (IEEE Xplore).
35. *A Neural Network Based Anomaly Intrusion Detection System*, Proceedings of the Fourth International Conference on Developments in eSystems Engineering (DeSE '2011), The British University in Dubai, UAE, 6th-8th December 2011, pp. 221-226 (IEEE Xplore).
36. *Video Encryption Based on Special Huffman Coding and Rabbit Stream Cipher*, Proceedings of the Fourth International Conference on Developments in eSystems Engineering (DeSE '2011), The British University in Dubai, UAE, 6th-8th December 2011, pp. 413-418 (IEEE Xplore).
37. *Key Reconciliation Techniques in Quantum Key Distribution*, Proceedings of the First Engineering Conference of the College of Engineering, University of Anbar, Ramadi, Iraq, 20-21 November, 2011.
38. *Development of an Anti-Censorship System*, Proceedings of the First Engineering Conference of the College of Engineering, University of Anbar, Ramadi, Iraq, 20-21 November, 2011.
39. *On the Development of NDIS Intermediate Driver-Based Virtual Private Networks*, Proceedings of the Third International Scientific Conference of Salahaddin University-Erbil, 18-20 Oct 2011.
40. *Proxy-Based Internet Gateways*, Proceedings of the Second Scientific Conference on Applied Scientific Research, Babylon University, Babylon, Iraq, 30-31 May 2011.
41. *Development of Secure e-Payment System*, Proceedings of the Second Scientific Conference on Applied Scientific Research, Babylon University, Babylon, Iraq, 30-31 May 2011.
42. *A Framework for Management of Water Resources Based on Internet-Enabled Wireless Sensor Networks*, University of Anbar Symposium on Water Resources, Ramadi, 22-23 March, 2011.
43. *Combining Mediated and Identity-Based Cryptography for Securing E-Mail*; The International Conference on Digital Enterprise and Information Systems (DEIS2011), London Metropolitan Business School, pp. 1-15, UK, July 20-22, 2011 (Springer).

44. *Reducing the Authentication Cost in Quantum Cryptography*; The 12th Annual Post Graduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting (PGNet2011), pp. 363-368, 27th-28th June 2011, Liverpool, UK.
45. *Nahrainfish: A Green Cryptographic Block Cipher*; The First Saudi International Electronics, Communications and Electronics Conference (SIEPC'11), April 23-26, 2011 in Riyadh, Saudi Arabia (ieee Xplore).
46. *Strategic Plan for Enhancing Higher Education Computing Degree Programs in Iraq*; IEEE EDUCON Education Engineering, pp. 86-90, April 4 - 6, 2011, Amman, Jordan (ieee Xplore).
47. *Towards Long-Term International Collaboration in Computer Science Education*; IEEE EDUCON Education Engineering, pp. 94-100, April 4 - 6, 2011, Amman, Jordan (ieee Xplore).
48. *Windows-Based Active-Router Architecture*, Journal of University of Anbar for Pure Science, Vol.4, No.3, pp.112-119, 2010.
49. *Balancing Centralization and Decentralization in Iraqi Higher Education*; Proceedings of the Midwest Regional Comparative and International Society Conference, MI, USA, October 29-30, 2010.
50. *Enhancement of Student Programming Skills Using Distributed Collaborative Programming*; Proceedings of the Midwest Regional Comparative and International Society Conference, MI, USA, October 29-30, 2010.
51. *Integrating Quantum Cryptography into SSL*; Ubiquitous Computing and Communication Journal, Vol. 5, Special Issue of Ubiquitous Computing Security Systems, Korea, pp. 1778-1788, 2010.
52. *WINDOWS-BASED ACTIVE-ROUTER DESIGN AND EVALUATION*; Proceedings of the 6th International Multi-Conference on Systems, Signals and Devices (SSD'09), Vol. III, Tunisia March 23-26, 2009 (ieee Xplore).
53. *Hybrid Wired/Wireless Profibus Timing Analysis Under Transient Faults*; i-Manager's Journal on Software Engineering 3.1 (July-Sep., 2008): 12-22.
54. *A Novel Extension of SSL/TLS Based on Quantum Key Distribution*; Proceedings of the International Conference on Computer and Communication Engineering 2008 (ICCCE08), VOLUME I, pp. 919-922, Malaysia, May 13-15, 2008 (ieee Xplore).
55. *Investigation of Java Smart Card Technology for Multi-Task Applications*; Proceedings of the First Scientific Conference of College of Computers, University of Anbar (CCIT2008), pp. 12-20, Ramadi, Iraq, April 2008.
56. *Towards a Strategy for the Sustainable Development of IT Section in A-Anbar Province*; Symposium of Sustainable Development of Al-Anbar, University of Anbar, Ramadi, Iraq, March 2008.
57. *Block Cipher Design after AES and the New Cipher Nahrainfish*; i-manager's Journal on Software Engineering, India, Vol. 1, No. 4, 2007, pp.46-61.
58. *PROFIBUS Timing Analysis Under Transient Faults*; Asian Journal of Information Technology, Medwell Online, Pakistan, Vol.6, No.7, pp. 806-816, 2007.
59. *Inaccessibility in PROFIBUS due to transient faults*; Proceedings of the International Arab Conference on Information Technology (ACIT' 2007), Syria, 26-28 November, 2007.
60. *Design and Implementation of SET-Enabled E-Commerce System*; Journal of Engineering and Development, College of Engineering, Al-Mustansiriya University, Baghdad, Iraq, 2009 (A preliminary version of it appeared in the proceedings of the 3rd International Conference on Information Technology (ICIT' 2007), Al-Zaytoonah University, Jordan, May 9-11, 2007).
61. *Unconditionally Secure Authentication in Quantum Key Distribution*; i-manager's Journal on Software Engineering, India, Vol. 1, No. 3, 2007, pp.31-42
62. *General Two-Party Oblivious Circuit Evaluation*; Proceedings of the 18th International Conference on Microelectronics (ICM 2006), pp. 210-213, KFUPM, Dhahran, KSA, 16-19 December 2006 (ieee Xplore).
63. *Towards Arab Scientific Collaboration in the Field of Quantum Cryptography*; Proceedings of the 4th Symposium on Scientific Research and Technological Development Outlook in the Arab World, Damascus, Syria, 11-14 December, 2006.

64. *Transparent Security System for LAN Communications*; Asian Journal of Information Technology, Medwell Online, Pakistan, Vol.5, No.8, pp. 834-847, 2006 (A preliminary version of it appeared in the Proceedings of the 3rd Symposium on Scientific Research and Technological Development Outlook in the Arab World, Riyadh, KSA, April 2004).
65. *Secure E-Mail System Using S/MIME and IB-PKC*; Proceeding of the 6th International Philadelphia Engineering Conference (IPEC 2006), Amman, Jordan, 19-21 Sept. 2006, pp. 713-722.
66. *Key Exchange Protocol Supporting Mobility and Multihoming*; i-manager's Journal on Software Engineering, India, Vol. 1, No. 2, 2006, pp.52-70.
67. *Defeating a man-in-the-middle attack in quantum key distribution*; Proceedings of the 5th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP'06), 19-21 July 2006, Patras, Greece.
68. *A Novel Quantum Cryptographic Error Elimination Technique Using Simple Hamming Codes*; Proceedings of the International Conference on Advanced Remote Sensing for Earth Observation Systems, KACST and ISPRS, Riyadh, KSA, May 2005 (A preliminary version of it appeared in the Journal of Engineering, College of Engineering, University of Baghdad, No. 2, Vol. 8, Iraq, June 2002).
69. *Toward Commercial Applications of Quantum Cryptography in Arab Countries*; Proceedings of the International Conference on Advanced Remote Sensing for Earth Observation Systems, KACST and ISPRS, Riyadh, KSA, May 2005.
70. *Building Cryptographic Primitives Based on Single-Channel Quantum Cryptography*; Journal of Engineering and Development, College of Engineering, Al-Mustansiriya University, No. 5, Vol. 6, Baghdad, Iraq, December 2002.
71. *Two-Party Oblivious Circuit Evaluation*; Proceedings of the 3rd National Conference on CCCSE, Baghdad, Iraq, December 2002.
72. *Protocol Conversion Between ADLP80 and IEC870 Communication Protocol Standards using Formal Methods*; Journal of Engineering, College of Engineering, University of Baghdad, No. 3, Vol. 8, Iraq, September 2002.
73. *Modeling and Simulation of Secure Optical Networks Based on Quantum Cryptography*; Iraqi Journal for Electrical and Electronic Engineering, University of Basrah, Iraq, January 2002.
74. *Optical Network Models for Quantum Cryptography*; Proceeding of 17th IFIP/Sec2002 Conference, Part 10, No. 35, Egypt, May 2002 (Springer: IFIP International Federation for Information Processing, Vol. 86).
75. *Quantum Cryptographic Key Distribution in Multiple-Access Networks*; Proceeding of 16th IFIP World Computer Congress, Vol. 1, pp. 42-49, China, August 2000 (IEEE Xplore).
76. *Error Elimination and Privacy Amplification in Single-Channel Quantum Cryptography*; Proceeding of 2nd National Conference on Data and Computer Security, Baghdad, Iraq, February 2000.
77. *Simulation of a Quantum Cryptographic Protocol*; Proceedings of Al-Hadba' Conference on Informatics and Software Engineering, Mosul, Iraq, April 2000 (An extended version appeared in the Journal of Future Research, Al-Hadba' College, Mosul, Iraq, 2001).
78. *Quantum Cryptography: A New Dimension in Optical Network Security*; Proceedings of 9th National Computer Center Conference, Baghdad, Iraq, December 1999 (An extended version appeared in the Journal of Computers, National Computer Center, Iraq, 2000).
79. *Development of New Secure Optical Network Models Based on Quantum Cryptography*; Proceedings of the Federation of Arab Scientific Research Councils Conference on Super-Highway Networks, Algeria, September 1999 (An extended version appeared in FASRC Journal- Selected Research Papers, No. 1, pp. 1-15, 2001).
80. *Microprocessor Controlled Voltage Regulator for Space Based Power Systems*; (extended version) Journal of Nahrain University: Engineering, Vol.2, No.2, pp. 1-12, Baghdad, Iraq, October 1998.
81. *Microprocessor Controlled Voltage Regulator for Space Based Power Systems*; Proceeding of 6th International Conference on Computer Systems and Applications, CSS and IEEE, Egypt, 1996.
82. *Development of Cryptanalysis Tool for Classical Ciphers*; unpublished.

Graduate Students Supervision:

	Student Name	Thesis Title	Study and Year	University
1	Amjad Hameed Shehab	Development of Enhanced Modules for Edge Computing in Heterogeneous Environment	M.Sc. 2017	Anbar
2	Ahmed Jumaa Abed	Development of Automated Cryptanalysis Tool for Classical Ciphers	M.Sc. 2016	Anbar
3	Dana Kareem Hama	Enhancing QoS and QoE for National ISPs Services in Responding to New User Demands	M.Sc. 2016	Sulaimaniya
4	Wael Ali Hussien	Using Software Engineering Techniques for the Design and Implementation of Cryptanalysis Platform	M.Sc. 2015	Anbar
5	Ali Jamal Hilal	Towards an Intelligent Search Engine	M.Sc. 2014	Anbar
6	Ekrum Habeeb Hussan	Biometric-Based Authentication and Key Management in WBANs for m-Health	M.Sc. 2013	Anbar
7	Abeer Dawood Salman	Distributed Data Security and Privacy in WBAN-Related e-Health Systems	M.Sc. 2013	Anbar
8	Sameeh Abdulghafour Jassim	Identity and Access Management in Cloud Computing	M.Sc. 2012	Anbar
9	Waleed Kareem Awad	Building Trust in Cloud Computing	M.Sc. 2012	Anbar
10	Alaa Khaleel Al-Hadithy	Privacy-Preserving Distributed Data Mining	Ph.D. 2011	Sulaimaniya
11	Fouad Saleem Mubarak	Secure Routing and Key Management in Dynamic WSNs	Ph.D. 2011	Mosul
12	Yaseen Salim Yaseen	Enhanced Routing Protocols for VANETs	M.Sc. 2011	Anbar
13	Mohammed Ibrahim Salman	Message Ferrying in Clustered MANETs	M.Sc. 2011	Anbar
14	Hadeel Amjad Sayeed	Neural Network Based Anomaly Intrusion Detection	M.Sc. 2010	Anbar
15	Mayada Abdul-Salam Rasheed	Public-Key Cryptography Enabled Kerberos Authentication	M.Sc. 2010	Anbar
16	Hussien Khalid Abdul-Razzaq	Secure E-Mail System Using Mediated and Identity-Based Cryptography	M.Sc. 2010	Anbar
17	Omer Kareem Jasim	Study and Analysis of the Cost of Unconditional Authentication in QKD	M.Sc. 2009	Anbar
18	Ruqayah Rabee Hashim	Key Reconciliation in Quantum Cryptography	M.Sc. 2009	Anbar
19	Amer Kais	Design and Implementation of Certificate Authority System	M.Sc. 2008	Technology (UOT)
20	Ali Shuaib	Simulation Study of Wired/Wireless Fieldbus Systems	M.Sc. 2008	Technology (UOT)
21	Khalida Shabaan Rijab	Design and Implementation of Efficient Video Encryption System	Ph.D. 2007	Technology (UOT)

22	Saad Hazim Al-Tak	Timing Analysis of Hybrid Wired/Wireless PROFIBUS Networks Under Transient Faults	Ph.D. 2007	Baghdad
23	Omer Ali Athab	Active and Programmable Networking System	Ph.D. 2007	Baghdad
24	Mohammed Athab Mohammed	Neural Network Based Authentication System	M.Sc. 2007	Technology (UOT)
25	Nema Enad Kadhum	Covertness and Confidentiality of the Infranet Anti-Censorship System	M.Sc. 2007	Baghdad
26	Mohammed Ali Tawfiq	Security of IP-Based Mobile Access Networks with QoS Support	Ph.D. 2006	Technology (UOT)
27	Sinan Ghassan Abid	Design and Implementation of Open Platform Multi-Task Java Card Applets	M.Sc. 2006	Baghdad
28	Mohammed Tariq Ibrahim	Secure E-Mail System Using S/MIME and Identity-Based Cryptography	M.Sc. 2006	Baghdad
29	Alaa Mohammed Abdul-Hadi	Design and Implementation of Windows 2000 Based Firewall System	M.Sc. 2005	Baghdad
30	Wisam Dhiya Al-Taee	Implementing Web Security Using SSL/TLS	M.Sc. 2005	Nahrain
31	Mouayad Salim Kud	Implementation of Virtual Private Network Using Transport Mode	M.Sc. 2005	Nahrain
32	Media Abdul-Razzaq Ali	Design and Implementation of SET-Enabled E-Commerce System	M.Sc. 2005	Mustansiriya
33	Zainab Hussain	Development of Heterogeneous Database Simulation for CAP E-Commerce System	M.Sc. 2005	Baghdad
34	Saif-Aldeen Mehdi Al-Bassam	Design and Implementation of an Internet Firewall Using the Proxy Technique	M.Sc. 2005	Basrah
35	Firas Rasmi Barjas	Design and Implementation of a Transparent Secure LAN	M.Sc. 2004	Baghdad
36	Mustafa Mohammed Abdul-Jabbar	Protocol Conversion between ADLP80 and IEC870 Communication Protocol Standards Using Formal Methods	M.Sc. 2002	Baghdad