



# Academic Curriculum Vitae

## Personal Information:

Full Name: Amin Salih Mohammed Kakshar

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## Education:

- 2005- BSc in Computer Engineering and Control, Kharkiv national university of radio electronics, Kharkiv, Ukraine.
- 2006- MSc in Computer Engineering and Control  
Thesis: Design and research of a computer network performance model  
Kharkiv national university of radio electronics, Kharkiv, Ukraine
- 2012-PhD in Computer Engineering  
Thesis: Methods and means for data transmission control in wireless  
Networks, Kharkiv national university of radio electronics, Kharkiv, Ukraine

## Employment:

2003 – 2005, Laboratory of Kaspersky.

2007 – 2009, Kurdistan, Erbil, Asst. Lecturer in Salahaddin University, college of engineering, Department of Software.

2009 – 2012, Ukraine-Kharkiv, Asst. lecturer in Department of Electronic Computers.

2012 - 2017, Kurdistan, Erbil, Lecturer in Salahaddin University, college of engineering, Software Department.

2014 – 2017, Kurdistan, Erbil, Head of Quality Assurance Unit, University of Salahaddin, College of Engineering.

2017 – 2018, Kurdistan, Erbil, Head of Information Technology Department Lebanese French University (LFU)

2018-2019, Kurdistan, Erbil, Dean- College of Engineering and Computer Science, Lebanese French University (LFU)

2019-2021, Kurdistan, Erbil, Vice-President for Scientific Affairs, Lebanese French University (LFU)

2021-present, Kurdistan, Erbil, President, Lebanese French University (LFU)

# Qualifications

- CCNA (Cisco Certified Network Associate)
- MCP (Microsoft Certified Professional)
- MCT (Microsoft Certified Trainer) European Computer Driving License Certificate
- CISCO SYSTEM Certification: Cisco Certified Network Associate
- ITALY- Minister of public, Administration Reform and Innovation-Skill Management System
- NDG Linux, Linux Professional Institute
- CISCO Networking Academy, Introduction to Cyber Security
- Mobility Series, Wireless technology
- Introduction to the Internet of Everything (IOE)
- CISCO Networking Academy Get Connected

## Teaching experience:

- Computer Architecture
- Data Communication
- Computer Systems and network
- Software Engineering
- Computer Algorithms
- Computer Algorithms and Optimazation
- Computer Programming
- Operating Systems

## Research and publications

1

Amin S. Mohammad, Nyan Dawood Sallman,  
“End To End Congestion Avoidance In Computer Network Using Robust PID  
Controller” (2017) Zanco Journal of Pure and Applied Sciences, 29(4), pp. 98-104.

2

V. Manikandan; M. Sivaram; Amin S. Mohammad,V. Porkodi  
An Intelligent Optimization Algorithm for Optimal Route Selection for Wireless Sensor  
Networks, Journal of Engineering and Applied Sciences on November 10, 2019

3

Amin S. Mohammad  
“Optimal Forecast Model For Erbil Traffic Road Data” (2017) Zanco Journal of Pure and  
Applied Sciences, 29(5), pp. 137-145. doi: 10.21271/ZJPAS.29.5.15.

4

Bestoun S. Ahmed , Amin S. Mohammad , and Hemin T. Essa.  
Assessing Combinatorial Design for Analyzing System

Performance of a Computer Network , Journal of Zankoy Sulaimani- Part A, Vol. 16 (4), 2014.

5

Kuchuk G.A., Amin S. Mohammad, Kovalenko A.A.

Method of bandwidth reallocation for decreasing of data transfer time in wireless network.

“ Systems of processing Information ”, No. 3(29)., Ukraine, Kyiv, 2011.

6

Amin S. Mohammad

Method of reducing the load of buffers on router. “Radio Electronics and Computers Systems”, No. 3(51)., Ukraine, Kharkiv, 2011.

7

Mozhaev M.A., Kovalenko A.A., Zavizistup U.U., Amin S. Mohammad

Characteristics of protocols that operate in wireless networks. “ Systems of processing Information”, No. 5(86)., 2010.

8

Amin S. Mohammad, Kovalenko A.A., Zavizistup U.U.

Analysis of factors that impact wireless networks’ throughput. “Information technology in navigation and management”, No.18, Ukraine, Kiev, 2011.

9

Kuchuk G.A., Amin S. Mohammad, Kovalenko A.A.

Method for decreasing of data transfer time in wireless network. “ Systems of processing Information ”, No. 19, Ukraine, Kyiv, 2011.

10

Kuchuk G.A., Amin S. Mohammad, Kovalenko A.A.

Method of parametric management to modify the transport protocols of wireless networks. “ Systems of processing Information ”, No. 8(98), Ukraine, Kharkiv, 2011.

11

Kovalenko A.A., Zavizistup U.U., Amin S. Mohammad

Method for load reallocation in base station of WIMAX technology. “ Computer science, mathematical modeling, economics. International scientific and practical conference. Collection of scientific work ”, No. 95, Russia, Smolensk, 16-17 July 2010.

12

Amin S. Mohammad , Kovalenko A.A.

Method of determining the types of errors that occur in wireless networks. “Collection of scientific work of Kharkiv Air Force University ”, January 2007.

13

Kovalenko A.A., Zavizistup U.U., Amin S. Mohammad

Method for compensation of TCP throughput degrading during movement of mobile node to another coverage area in wireless networks. “ Collection of scientific work of Kharkiv Air Force University. ” № 1 (13)., Ukraine, Kharkiv, 2007.

14

Kovalenko A.A., Zavizistup U.U., Amin S. Mohammad

Improve the efficiency of TCP protocol in wireless and mobile network. “Radio electronics and youth in the XXI century”, April 2006.

15

Kovalenko A.A., Zavizistup U.U., Amin S. Mohammad

Modification of SACK Transmission Control Protocol . “ Systems of processing Information”. No. 9(58)., Ukraine, Kharkiv, 2006.

16

Farah Qasim Ahmed, Amin Salih Mohammed

Enhancing the data security in cloud computing by using new encryption method, Qalaai Zanist Scientific Journal, Vol. (3 ), Issue ( 1 ) Winter 2018.

17

Amin Salih Mohammed , Farah Qasim Ahmed, Bnar Fareed Ibrahim

Modification of load balancing method in networks with wimax technology, Qalaai Zanist Scientific Journal, Vol. ( 3 ), Issue ( 2 ) Spring, 2018.

18

Amin Salih Mohammed, Farah Qasim Ahmed

Study of video traffic In telecommunican systems for the purpose of service quality, Qalaai Zanist Scientific Journal, Vol. ( 3 ), Issue ( 3 ), Summer 2018.

19

Dr. Kamaran HamaAli.A.Faraj, Dr. Nzar Abdulqader. Ali, Dr. Amin Salah Mohamad, Dashne Raoof

Search Engine: Simple, Semi and Full Electronic Evaluation, International Journal Of Scientific & Technology Research.

Volume 7, Issue 8, August 2018.

20

V. Porkodi, Dr.M. Sivaram, Asst.prof.Dr.Amin Salih Mohammed, V. Manikandan, Survey On White-Box Attacks And Solutions, Journal of Theoretical and Applied Information Technology.

21

Dr.M.Sivaram, V.Porkodi, Amin Salih Mohammed, V.Manikandan

Prolong The Network Lifespan of Wireless Sensor Network by Using HPSM, International Journal of Mechanical Engineering and Technology (IJMET) Volume 10, Issue 01, January 2019, pp. 2039-2045

22

Dr. M.Sivaram, Asst.prof.Dr.Amin Salih Mohammed, V.Porkodi, V.Manikandan, Securing The Sensor Networks Along With Secured Routing Protocols For Data Transfer In Wireless Sensor Networks, University Of Bahrain. October 2018, Volume 5, Issue 10 6 Pages,

23

Asst.prof.Dr.Amin Salih Mohammed, M.Sivaram, V.Porkodi , V.Manikandan

Enhanced Dynamic Bandwidth Allocation Proportional to Reduce the Transmission Time, International Journal of Engineering & Technology. 14-Special Issue, 2018,PP: 2024-2033

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Dr.M.Sivaram, Dr.K.Batri, Asst.prof.Dr.Amin Salih Mohammed, V.Porkodi,

Exploiting The Local Optima In Genetic Algorithm Using Tabu Search, Bentham Science. Indian Journal of Science and Technology, Vol 12(1), DOI:

10.17485/ijst/2019/v12i1/139577, January 2019 ISSN (Print) : 0974-6846 I

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V.Manikandan, Dr.M.Sivaram, Asst.prof.Dr.Amin Salih Mohammed, V. Porkodi

Privacy Preserving Data Mining Using Threshold Based Fuzzy C-Means Clustering, ICTACT Journal On Soft Computing, October 2018, Volume: 09, ISSUE: 01.

26

Asst.prof.Dr.Amin Salih Mohammed, D. Yuvaraj, M. Sivaram, V. Porkodi

Detection and Removal Of Black Hole Attack In Mobile Ad Hoc Networks Using Grp Protocol. International Journal of Advanced Research in Computer Science, Vol.10 Issue 6,2018

27

Dr.B Saravana Balaji, Asst.prof.Dr.Amin Salih Mohammed

Adaptability of SOA in IoT Services–An Empirical Survey, International Journal of Computer Applications, Vol.182 Issue 31,2018

28

AAmin Salih Mohammed, M Sivaram, Suzan Tahsein Husein, V Porkodi, V. Manikandan

4G and 5G Communication Networks Future Analysis, International Journal of Engineering Research and Technology. ISSN 0974-3154, Volume 12, Number 3 (2019), pp. 343-349

29

Asst.prof.Dr.Amin Salih Mohammed, Hiwa Abdulkarim Mawlood

QoS Performance Evaluation in 4G and 5G - Comparison, International Journal of Advanced Trends in Computer Science and Engineering, Volume 8, No.1.2, 2019

30

Asst.prof.Dr.Amin Salih Mohammed, Daroon Mudhafar Hamad , M.Sivaram , V.Porkodi , V.Manikandan

Analysis of Mobile IP Wireless Networks in 5G, Comparison, International Journal of Advanced Trends in Computer Science and Engineering, Volume 8, No.1.2, 2019

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Viswanathan, M., M. Sivaram, D. Yuvaraj, and Asst.prof.Dr.Amin Salih Mohammed

"Security and privacy protection in cloud computing." Journal of Advanced Research in Dynamical and Control Systems (2018): 1704-1710.

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M Sivaram, D Yuvaraj, Mohammed Amin Salih, V Porkodi, V Manikandan

The Real Problem Through a Selection Making an Algorithm that Minimizes the Computational Complexity, International Journal of Engineering and Advanced Technology, Volume 8, Issue 2, Pages 95-100

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MDV, Sivaram Yuvaraj Amin Salih Mohamme. "Porkodi.

Estimating the Secret Message in the Digital Image." International Journal of Computer Applications 181, no. 36 (2019): 26-28.

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"Time series prediction using SRE-NAR and SRE-ADALINE." Journal of Advanced Research in Dynamical and Control Systems, Pages (2018): 1716-1726.

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Sivaram, M., V. Porkodi, Amin Salih Mohammed, V. Manikandan, and N. Yuvaraj.

"Retransmission DBTMA Protocol with Fast Retransmission Strategy to Improve the Performance of MANETs." IEEE Access 7 (2019): 85098-85109.

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An energy efficient EDM-RAEED protocol for iot based wireless sensor networks,  
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Pages: 1992-2004, 2018

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"Conceptual analysis of iris recognition systems." Advanced Information Systems. 2019.  
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Mohammed, Amin Salih. "Improvement of an energy balance method of leach based on  
genetic algorithm." Системи управління, навігації та зв'язку 2 (2017): 136-142.

40

Souri, Alireza, Amin Salih Mohammed, Moayad Yousif Potrus, Mazhar Hussain Malik,  
Fateme Safara, and Mehdi Hosseinzadeh. "Formal verification of a hybrid machine  
learning-based fault prediction model in Internet of Things applications." IEEE  
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Saeed, Mustafa Gh, Kamaran HamaAli Faraj, Amin S. Mohammed, Azhee W. Muhamad,  
Chiai Al-Atroshi, and Sherko H. Abdulrahman. "Short message service remotely mobile  
device control." Computational Methods for Differential Equations 7, no. 4 (Special Issue) (2019):  
545-565.

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Mohammed, Amin Salih, B. Balaji, and M. S. Basha.  
"Fuzzy applied energy aware clustering based routing for IoT networks.", (2019),  
Advanced Information Systems. 2019. Vol. 3, No. 4.

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Mohammed, Amin Salih, B. Saravana Balaji, and Saleem Basha. "Маршрутизація в IoT  
мережах, орієнтована на кластеризацію із нечітко застосованою енергією." Сучасні  
інформаційні системи 3, no. 4 (2019): 140-145.

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Mohammed, Amin Salih, B. Saravana Balaji, and Hiwa Abdulkarim Mawlood.  
"Концептуальний аналіз систем розпізнавання райдужної оболонки ока." Сучасні  
інформаційні системи 3, no. 2 (2019): 86-90.

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Yuvaraj.

"Improved Enhanced Dbtma with Contention-Aware Admission Control to Improve the  
Network Performance in Manets." Vol.60, No.2, 2019, pp.435-  
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Network traffic drop minimization during maintenance using jaya optimization algorithm,  
International Journal of Advanced Trends in Computer Science and Engineering, October  
2019, International Journal of Advanced Trends in Computer Science and Engineering

8(5):2418-2428

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Kuchuk, N., A. S. Mohammed, A. Shyshatskyi, and O. Nalapko. "The method of improving the efficiency of routes selection in networks of connection with the possibility of self-organization." *International Journal of Advanced Trends in Computer Science and Engineering* 8, no. 1 (2019): 1-6.

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V. Manikandan, D. Yuvaraj, Amin Salih Mohammed, V. Porkodi, M. Sivaram  
Electrical Energy Conservation and Energy Management System Using Internet of Things,  
Issue: 14-Special Issue,2018,Pages: 2016-2023

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Fatemeh Safara, Amin Salih Mohammed, Moayad Yousif Potrus, Saqib Ali, Quan Thanh Tho, Alireza Sourì , Fereshteh Janenia and Mehdi Hosseinzadeh  
An Author Gender Detection Method using Whale Optimization Algorithm and Artificial Neural Network, Published in: IEEE Access, 12 February 2020

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Jayachitra Selvaraj and Amin Salih Mohammed  
Mutation-based PSO techniques for optimal location and parameter settings of STATCOM under generator contingency, *Int. J. Intelligence and Sustainable Computing*, Vol. 1, No. 1, 2020

52

M. Sivaram, B. Ayshwarya, Muhammad Rizky Pribadi, Phong Thanh Nguyen, K. Shankar5, Amin Salih Mohammed, Satria Abadi, Miftachul Huda, Dian Permana Putra, Wahidah Hashim, Andino Maseleno, V. Porkodi, V. Manikandan, Andrei V. Ochepovsky  
*REVISTA SAN GREGORIO*, 2019, NO.32, Special Issue August, ISSN: 1390-7247; EISSN: 2528-7907

53

M. Sivaram, Amin Salih Mohammed, D Yuvaraj, V. Manikandan.  
IoT in agriculture, *Journal of Advanced Research in Dynamical and Control Systems* 10(14):1987-1991, November 2018

## Conferences and courses attended

1

Abbas M. Ali, Moayad Y. Potrus and Amin S. Mohammad  
3rd International Engineering Conference on Developments in Civil & Computer Engineering Applications "Multi-class vehicle types recognition system using spatial visual words with minimized feature set", Feb 26-27, 2017.

2

Amin S. Mohammad  
International Science and Technical Conference on Modern Trends in Information and Communication Technologies and Control "Energy balance dynamic election protocol for CLUSTER heterogeneous wireless sensor network", Kharkov-Ukraine, April04,2016.

3

Amin S. Mohammad, Moayad Yousif Potrus  
International Conference on Computing, Communication and Control Engineering "A

Method for Compensation of TCP Throughput Degrading During Movement of Mobile Node”  
(IC4E'2015) -Dubai (UAE)

4

Zavizistup U.U., Amin S. Mohammad

“Using link-layer triggers to predict moving node in wireless networks”. Collection of scientific work of conference “Information technology in navigation and management”, Ukraine, Kyiv, 5-6 July 2010.

5

Kuchuk G.A., Kovalenko A.A., Amin S. Mohammad “Method of parametric data link to modify the transport protocols of wireless networks”. Collection of scientific work “Systems of processing

Information”, No.8, Ukraine, Kharkov, 2011.

6

Amin S. Mohammad

“New Approach to reduce the loading on buffer to equalize the balance of the router input streams”, Collection of scientific work of Ukrainian Scientific conference, Ukraine, Kharkov, 2011.

7

Zavizistup U.U., Amin S. Mohammad

“Analysis and study of factors that impact wireless networks’ throughput”, Modern trends of development

of information and communication technologies and management tools. Material of the First STC. - H.: SE "HNDI TM"; Kyiv 13-14 Dec 2010.

8

Kalosha V.O., Kovalenko A.A., Zavizistup U.U., Amin S. Mohammad

“New approach to development a method for decreasing of data transfer time in wireless network”, State and prospects. Of development. Second international STC. - K.: SE "CRI NiU" Kyiv16-17 July 2010.

9

Amin S. Mohammad, Nemchenko V.P., Chepelov U.O.

“Analysis of AD HOC networks-based on Petri network”, State and prospects. Of development. Second international STC. - K.: SE "CRI NiU" Kyiv16-17 July 2010.

10

Sivaram, M., Amin S. Mohammad, D. Yuvaraj, V. Porkodi, V. Manikandan, and N. Yuvaraj. "Advanced Expert System Using Particle Swarm Optimization Based Adaptive NetworkBased Fuzzy Inference System to Diagnose the Physical Constitution of Human Body." International Conference on Emerging Technologies in Computer Engineering, pp. 349-362. Springer, Singapore, 2019.

11

Amin S. Mohammad, Meleshko Y., Saravana Balaji B., Serhii S.

"Collaborative Filtering Method with the use of Production Rules", IEEE International Conference on Computational Intelligence and Knowledge Economy, 11-12 Dec 2019

12

Amin S. Mohammad, Barkovska, O., Suganthi S.T., Rosinkiy D., Oleg B.

"Automated Gardening System with Frost Prediction for Small Land Parcels", International Conference on Computation, Automation and Knowledge Management, 9-10, Jan 2020.

13

Amin S. Mohammad

"Modification of Load Reallocation Method in Base Station of WIMAX Technology ", HONG KONG International Conference on “Computer, Electrical and Electronics Engineering” (CEEE-16), 2016.



14

Amin S. Mohammad, Yogesh Awasthi

"IoT- A Technological Boon in Natural Disaster Prediction", IEEE Conference ID: 46181 2019 6th International Conference on "Computing for Sustainable Global Development", 2019

15

Amin Salih Mohammed , Shyshatskyi Andrii , Ahmed Najat Ahmed , Dublian

Olha , Salman Rasheed Owaid

"Multiparametric Assesment of the Conditional Channel of Multitarent Radio Communication Systems using Fuzzy Sets ", 2019 International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), IEEE Conference, Dubai, United Arab Emirates, United Arab Emirates, 11-12 Dec. 2019.

16

Amin Salih Mohammed , Yelyzaveta Meleshko , Saravana Balaji B , Semenov Serhii

" Collaborative Filtering Method with the use of Production Rules", 2019 International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), IEEE Conference, Dubai, United Arab Emirates, United Arab Emirates, 11-12 Dec. 2019.

## **Funding and academic awards**

- List any bursaries, scholarships, travel grants or other sources of funding that you were awarded for research projects or to attend meetings or conferences.

## **Professional memberships**

- Editor in Chief, International Journal of Computer Communication and Informatics:

<https://sietjournals.com/index.php/ijcci>.

- Member of IEEE (Institute of Electrical and Electronics Engineers)

- Member of Editor Board, Advanced Information Systems Journal, ISSN: 2522-9052:

<http://ais.khpi.edu.ua/>

- Member of Editor Board, Qalaai Zanist Journal, Online ISSN: 2518-6566 , Print ISSN: 2518-6558:

<http://journal.lfu.edu.krd/>

## **Professional Social Network Accounts:**

<https://www.linkedin.com/in/amin-salih-mohammed-493448131/>

[https://www.researchgate.net/profile/Amin\\_Mohammed9](https://www.researchgate.net/profile/Amin_Mohammed9)