QFG11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

CURRICULUM VITAE
Professor

Full name: Prof. Mohammad Ahmad Alia.

Department/Faculty, Cyber Security / Faculty of Sciences and IT

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http://www.zuj.edu.jo/portal/mohammed-alia/#profile

1. **Personal Data**

   Date of Birth: 26th November, 1977
   Nationality: Jordanian.

2. **Education**

   - Ph.D. (Computer Science - Information Security/Cryptography)
     2008, University Sains Malaysia (USM), Penang, Malaysia,

   - M.Sc. Information Technology, 2003,

     B.Sc. Computer Science, Al Zaytoonah University of Jordan. 1999-2000, Amman, Jordan

QFG11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

3. Ph.D. Dissertation

Thesis title: *'A New Approach to Public-Key Cryptosystem Based on Mandelbrot and Julia Fractal Set'*.

Research Synopsis: This study shows the possibility of establishing Fractal based cryptosystem algorithm including key exchange protocol, public key encryption algorithm and digital signature scheme, derived from the logical connection between the Mandelbrot and Julia Fractal sets. The security protection of the proposed Fractal cryptosystem depends on the number of iterations and the added variation constants during the iteration of Mandelbrot and Julia functions. This makes Mandelbrot and Julia values jump path chaotically and also it will establish the needed complexity of the proposed schemes. However, we can identify that the proposed Fractal public-key cryptosystem is based on chaotic hard problem. The chaotic nature of the Fractal functions ensures the security of the proposed public-key cryptosystem schemes, and this will prevent a brute force attack.

4. Employment

3rd Oct 2019-present	**:Dean of Scientific Research**
28th May 2018	**: Professor**
5th Oct 2016- 30th Sep.- 2019	**:** Faculty Deputy Dean Faculty of Sciences and IT Al Zaytoonah University
28th May 2013- Present	: Associate Professor – Head of Computer Information Systems Dept. Faculty of Sciences and IT Al Zaytoonah University
Oct. 2009 - Present	: Head of Computer Information Systems Dept. Faculty of Sciences and IT Al Zaytoonah University
May 2008 – 27th May 2013	: Assistant Professor - CIS Dep. Faculty of Sciences and IT Al Zaytoonah University
2008 / 2009 –1st.Sem.	: Lecturer- Part Time -, Information Technology Dep., Petra University.

QFG11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

2008 / 2009 –2^{ed} .Sem. : Lecturer- Part Time -, C.S. Dep., University of Jordan.

2006 - 2008 : Research Officer, School of Computer Science, University Sians of Malaysia (USM). I worked as part of Professor Azman Samsudin research group under two projects :
1. *"Cryptography Primitives Based on Chaos Logistic Map".*
2. *"Parallelisation Stream Cipher Cryptosystem Based on NP-Hard Problem (PSCC)".*

Feb. 2005- Feb. 2006 : Lecturer, Computer Science in the PTTI College – KSA.

June 2003- Sep 2004 : Lecturer, Computer Science department - Al Zaytoonah University of Jordan.

Oct 2000– June 2003 : Lab Operator, Computer Science department - Al Zaytoonah University of Jordan

Academic Positions

- Professor, ", Computer Information Systems Dept., Faculty of Sciences and IT, Al Zaytoonah University
  May 28, 2018
- Associate Professor "A", Computer Information Systems Dept., Faculty of Sciences and IT, Al Zaytoonah University
  January 15, 2018
- Associate Professor "B", Computer Information Systems Dept., Faculty of Sciences and IT, Al Zaytoonah University
  May 28, 2018
- Assistant Professor, Computer Information Systems Dept., Faculty of Sciences and IT, Al Zaytoonah University
  May 27, 2008

Administrative Positions

- Dean of Scientific Research, Al Zaytoonah University, Jordan, 3rd Oct. 2019- Present.
- Faculty Deputy Dean, Faculty of Sciences and IT, Al Zaytoonah University, Jordan, 5th Oct. 2016- 30th Sep. 2019.
- Chairman of Computer Information Systems Department, Faculty of Sciences and IT, Al Zaytoonah University, Jordan, Oct. 2009 – 30th Sep. 2019.

5. **Research Interests**

QFG11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

Information Security, Cryptography, Network Security, Cryptocurrency, and System Analysis and Design.

6. **Fellowships and Scholarships**
   - *"Cryptography Primitives Based on Chaos Logistic Map".*
   - *"Parallelisation Stream Cipher Cryptosystem Based on NP-Hard Problem (PSCC)".*

7. **Teaching Experience**

   - ***Graduate Courses***

     - Information Security

   - ***Undergraduate Courses***

     - Information security -Cryptography
     - Network Security
     - System Analysis and Design

     - Information Technology
     - Information Systems

     - Networks
     - Pascal Programming

     - Management Information System (MIS)
     - File organization

     - C++

     - Artificial Intelligence
     - Computer Skills (Win XP and Office XP)

     - Visual Basic 6.0.
     - Java

     - Data Base design
     - Html and Java script
     - VB.net and ASP.net

     - Logic Design
     - Discrete Structure

     - Multimedia

8. Supervision of Graduate Research

Thesis Title (Master)	Student Name	Year
An Improved Approach for secured Mobile Payment System Based on Public-Key Cryptography	Ehap Al Khateeb	2015
An improved Video Stenographic System Based on Exact Matching Algorithm And Random Key -Dependent Data Technique	Maher Al Sarayrah	2017
Increasing The Awareness About Cyber-Crime and Hate Speech in Social Media	Alaa Fahed Al-Abbadi	2019
An improved fully convolutional neural network (FCNN)-based digital image watermarking by using DWT, DCT and practical swarm optimization algorithms	Aseel Al Rawashdeh	2022

9. Grants

- Research Project : نظام ادارة مجلات جامعة الزيتونة الاردنية, Al Zaytoonah University of Jordan, 7300JD , 2021-2022
- Research Project: تطبيق نموذج الإطار التنظيمي لعملية الشحن للسيارات الكهربائية في جامعة الزيتونة الاردنية, Al Zaytoonah University of Jordan, 10550 JD, 2020-2021
- Research Project: نظام ادارة البحث العلمي في جامعة الزيتونة الاردنية , Al Zaytoonah University of Jordan, 8000 JD, 2019-2020
- Research Project: ”A Novel Approach to Extract Illegal and Terrorist Contents from Arabic Social Media Posts Using Machine Learning Technique”, Al Zaytoonah University of Jordan, 15000 Jordan Dinar, 2018-2019
- Research Project: “A Novel Method for Localising a Randomly Distributed Wireless Sensor Network”, Al Zaytoonah University of Jordan, 24,530 Jordan Dinar, 2017-2015
- Research Project :“Integrated System For Monitoring And Recognizing Students During Class Session”, Al Zaytoonah University of Jordan, 35000 Jordan Dinar 2012-2015

QFG11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

10. Membership of Committees

No.	Dates	Description
1.	2022-2023	*Conference Steering committee member: The 11th International Conference on Information Technology - ICIT'2023 – Al Zaytoonah University – Jordan.*
2.	2020-2022	رئيس المجلس التاديبي في الجامعة-جامعة الزيتونة الاردنية
3.	2022	*Conference Steering committee member: **The 2022 IEEE Middle East & North Africa COMMunications Conference (MENACOMM 2022)***
4.	2021	*Conference program Chair: The 10th International Conference on Information Technology - ICIT'2021 – Al Zaytoonah University – Jordan.*
5.	2019 oct	*University COUNCIL, Al Zaytoonah University – Jordan.*
6.	2020-2021	*Thesis Examiner (14 thesis's)*
7.	2019 oct	*DEANS COUNCIL, Al Zaytoonah University – Jordan.*
8.	2019	*Conference Chair: The 9th International Conference on Information Technology - ICIT'2019 – Al Zaytoonah University – Jordan.*
9.	2017-Present	*International Journal of Network Security and its Applications*
10.	2017-Present	*World Academy of Science, Engineering and Technology*
11.	2015-Present	*Deanship of Scientific Research Council*
12.	2015, 2018	المجلس التاديبي في الجامعة-جامعة الزيتونة الاردنية
13.	2017	*Technical and Organizing Committe: The 8th International Conference on Information Technology - ICIT'2017 – Al Zaytoonah University – Jordan.*
14.	2017	*Thesis Examiner: Saied Al Saydeh, "Detecting Phishing Emails Using Data Mining Classification Techniques", Middle East*

		University.
15.	*2017*	*Thesis Examiner: Mayyadah Adnan Abdulridha, "Online Security Protocols for NFC Mobile Payment Application", Pricess Sumaya University for Technology.*
16.	*2016*	*Thesis Examiner: Dayala Rasheed," A Secure Visual Cryptography System For Identification cards", A Zaytoonah Universit of Jordan.*
17.	*2016*	*Thesis Examiner: Arwa Husien Abu al-Rukab, " A Robust Method for Copy-Move Forgery Detection", Zarqa University.*
18.	*2016*	*Thesis Examiner: Omar Mijbel Hammad, Master Degree,Voice Encryption Using Twin Stream Cipher Algorithm", Middle East University, 2016.*
19.	*2015*	*Thesis Examiner: Raghda Ahmad Malih, Master Degree, "User Authntication System Using Emoji Pictures Passwords", Middle East University.*
20.	*2015*	*Organizing Committe: The 7th International Conference on Information Technology - ICIT'2015 – Al Zaytoonah University – Jordan, May 2015.*
21.	*2013*	*Steering Committe: The 6th International Conference on Information Technology - ICIT'2013 – Al Zaytoonah University – Jordan, May 2013.*
22.	*2011*	*Technical Committee: The 5th International Conference on Information Technology - ICIT'2011 – Al Zaytoonah University – Jordan.*
23.	*2011*	*Thesis Examiner: Haneen Mohammed Fayoumi, Master Degree, "Secure Authentication Prortocol and Key Agreement for Mobile Nettworks Using Public–Key Cryptography", Middle East University.*
24.	*2011*	*Thesis Examiner: Reem Ali Al-Saidi, Master Degree, "A Secure Electronic Voting Scheme Based on Evox-MA and REVS Protocols", Middle East University*
25.	*2009*	*Technical Committee: The 4th International Conference on Information Technology - ICIT'09 – Al Zaytoonah University – Jordan.*

11. Participation in or organization of curricular and/or extra-curricular activities

No.	Curricular	Year
1.	Artificial Intelligent Engineering, Al Zaytoonah University, Jordan	2018,2019
2.	Computer Information Systems, Al Zaytoonah University, Jordan	2019,2017, 2016, 2014
3.	Computer Science, Al Zaytoonah University, Jordan	2017,2019
4.	Multimedia, Al Zaytoonah University, Jordan	2017
5.	Computer Network, Al Zaytoonah University, Jordan	2017
6.	Software Engineering, Al Zaytoonah University, Jordan	2017,2019
7.	Mathematics, Al Zaytoonah University, Jordan	2017,2019
No	**Certificate**	
1.	Test Construction and Analysis of Results	2017
2.	Arab Council for Training Student of Arabic Universities	2018
3.	Attaining the Quality Assurance Certificate –ZUJ University (5 Stars Certificate)	2018

12. Publications

1. **Mohammad Alia** and Azman Bin Samsudin. New Key-Exchange Protocol Based on Mandelbrot and Julia Fractal Sets. International Journal of Computer Science and Network Security, IJCSNS, vol. 7, no.2, pp. 302-307, 2007.
2. **Mohammad Alia** and Azman Bin Samsudin. A New Public-Key Cryptosystem Based on Mandelbrot and Julia Fractal Sets. Asian Journal of Information Technology, AJIT, vol. 6, no. 5, pp. 567-575, 2007.
3. **Mohammad Alia** and Azman Bin Samsudin. A New Digital Signature Scheme Based on Mandelbrot and Julia Fractal Sets. American Journal of Applied Sciences, AJAS, vol. 4, no. 11, pp. 850-858, 2007.
4. **Mohammad Alia** and Azman Bin Samsudin. Generalized Scheme For Fractal Based Digital Signature (GFDS). International Journal of Computer Science and Network Security, IJCSNS, vol. 7, no.7, pp.99-104, 2007.
5. **Mohammad Alia** and Azman Bin Samsudin. Fractal Public-Key Encryption Protocol. Computer Science Postgraduate Colloquium 2007 (CSPC'07), Universiti Sains Malaysia, 2007.
6. Mahmoud Maqableh, Azman Bin Samsudin and **Mohammad Alia**. New Hash Function Based on Chaos Theory (CHA-1). International Journal of Computer Science and Network Security, IJCSNS, vol. 8, no.2, pp.20-26, 2008.

7. **Mohammad Alia** and Azman Bin Samsudin. Survey on Fractal (Mandelbrot and Julia Sets) Public-Key Cryptosystem. National Conference on Information Retrieval and Knowledge Managment (CAMP08), March 2008.

8. **Mohammad Alia** and A. Samsudin. Fractal (Mandelbrot and Julia) Zero-Knowledge Proof of Identity. Journal of Computer Science (JCS), 4(5), pp. 408-414, 2008.

9. Sundaram Sudha, Azman Samsudin and **Mohammad Ahmad Alia**. Group Re-keying Protocol Based on Modular Polynomial Arithmetic Over Galois Field $GF(2^n)$. American Journal of Applied Sciences (AJAS), 6 (9): 1714-1717, 2009.

10. **Mohammed Ahmed Ali**a and Abdelfattah A. Yahya. Public-Key Steganography Based on Matching Method. European Journal of Scientific Research, ISSN 1450-216X Vol.40 No.2 (2010), pp.223-231, 2010.

11. **Mohammed Ahmed Alia**. Survey on Mathematical Hard Problems Based Public-Key Cryptosystems. World Academy of Science, Engineering and Technology, 68. 2010.

12. **Mohammad A. Alia**, Adnan A. Hnaif, Hayam K. Al-Anie, Khulood Abu Maria, Ahmed M. Manasrah, M. Imran Sarwar, A Novel Header Matching Algorithm for Intrusion Detection Systems, International Journal of Network Security & Its Applications (IJNSA), Vol.3, No. 4. pp. 59-73. 2011.

13. Hayam K. Al-Anie, **Mohammad A. Alia** and Adnan A. Hnaif. E-Voting Protocol Based On Public-Key Cryptography. International Journal of Computer Science and Information Technology (IJCSIT). Vol.3.No. 4. pp. 87-98. 2011.

14. Mohammad A. Alia. Comparison Study On NP-Hard Problem Based Digital Signature Schemes. International Science And Technology Conference – ISTEC 2011. Istanbul University-Turkey. December 7-9. pp. 149-154. 2011.

15. Mohammad A. Alia, Adnan A. Hnaif, Hayam K. Al-Anie, Abdelfatah Aref Tamimi. Graphical Password Based On Standard Shapes. Science Series Data Report Journal. Volume 4, Issue 2. pp. 71-79. 2012.

16. Abdallah A. Hlayel and **Mohammad A. Alia**. Solving transportation problems-using the best candidates method. Computer Science & Engineering: An International Journal (CSEIJ).Vol.2, No.5. pp. 23-30. 2012.

17. Omaima N. A., Abdelfatah Aref Tamimi**,** and **Mohammad A. Alia**. Face Recognition System Based on Different Artificial Neural Networks Models and Training Algorithms. IJACSA, Vol. 4, No. 6, 2013.

18. **Mohammad A. Alia**. Cryptosystems Based on Chaos Theory. The 2nd International Symposium on Chaos, Complexity and Leadership-ICCLS2013. 17Th – 19th Dec. 2013. Meddle East University. Ankara. Turkey. Book Chapter, Springer

19. **Mohammad A. Alia**, Abdelfatah Aref Tamimi and Omaima N. A. AL-Allaf. Integrated System For Monitoring And Recognizing Students During Class Session. IJMA, Vol. 5, No. 6, 2013.

20. **Mohammad A. Alia**, Abdelfatah Aref Tamimi, and Omaima N. A. AL-Allaf. Cryptography Based Authentication Methods. Proceedings of the World

Congress on Engineering and Computer Science 2014 Vol I, WCECS 2014, 22-24 October, 2014, San Francisco, USA.

21. Omaima N. A., Abdelfatah Aref Tamimi, and **Mohammad A. Alia**. Eigen Faces and Principle Component Analysis for Face Recognition Systems: A Comparative Study. INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY. Vol 14 . No. 4, Feb. 2015

22. Omaima N. A., Abdelfatah Aref Tamimi, and **Mohammad A. Alia**. Real-Time Group Face-Detection for an Intelligent Class-Attendance System. I.J. Information Technology and Computer Science, 06, 66-73. 2015.

23. Adnan A. Hnaif and **Mohammad A. Alia**. MOBILE PAYMENTMETHODBASED ON PUBLIC-KEY CRYPTOGRAPHY. International Journal of Computer Networks & Communications (IJCNC) Vol.7, No.2, March 2015.

24. Ehab M. Alkhateeb, **Mohammad A. Alia**, and Adnan A. Hnaif. An Improved Approach for Secured Mobile Payment System based on Ecies Cryptography. International Journal of Research in Computer Applications & Information Technology. Volume 3, Issue 3, May-June 2015, pp. 28-39, 2015.

25. Ehab M. Alkhateeb, **Mohammad A. Alia**, and Adnan A. Hnaif. The Generalised Secured Mobile Payment System Based on ECIES and ECDSA. ICIT 2015 - The 7th International Conference on Information Technology. May 2015. Amman, Jordan.

26. **Mohammad A. Alia** and Adnan A. Hnaif, The Parallelized Header Matching Algorithm for Intrusion Detection Systems. The 3rd International Conference on Islamic Applications in Computer Science And Technology, 1-3 Oct 2015, Konya-Turkey.

27. Maher A. Alsarayreh, **Mohammad A. Alia,** Khulood Abu Maria , A Novel Image Steganographic System Based on Exact Matching Algorithm and Key-Dependent Data Technique, JATIT journal, Vol.95. No 5.p.p 1212-1224

28. **Mohammad A. Alia**, Combining Public-Key Encryption with Digital Signature Scheme. Chapter in Advances in Intelligent Systems and Computing, Springer , 2016.

29. Heba N. Kamel, Mohammad A. Alia, Bara'aha. Al Saeq and Eman Abu Maria, A Secure E-Medical Exemption System (E-MES): Jordan Case. International Journal of Network Security & Its Applications (IJNSA) Vol.9, No.2, March 2017.

30. Ahmad AA Al Khatib, **Mohammad A. Alia**, Adnan Hnaif . "Smart System for Forest Fire Using Sensor Network. International Journal of Security and Its Applications. Vol. 11, No. 7 (2017), pp.1-16

31. **Mohammad A. Alia** and Khaled Suwais, "A Novel Steganography Scheme based on Fractal Set. The International Arab Journal of Information Technology-Thomson Reuters (IF: 0.724) (2019)

32. **Mohammad A. Alia**, Adnan Hnaif . Ayman Abdullah, and Eman Abu Maria, "An Improved Authentication Scheme Based on Graphical Passwords   ICIC Express Letters: Journal of Innovative Computing, Information and Control Vol. 12. No 11, 2018

QFG11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

33. Ahmad AA Al Khatib, **Mohammad A. Alia**, Adnan Hnaif . "A Novel Method For Localising A Randomly Distributed Wireless Sensor Network   International Journal of System Assurance Engineering and Management, Springer, First Online: 20 Dec 2017

34. Adnan A. Hnaif, Ali Aldahoud, **Mohammad A. Alia**, Issa S. Al'otoum and Duaa Nazzal, "Multiprocessing scalable string matching algorithm for network intrusion detection system" , Int. J. High Performance Systems Architecture(Accepted 2018)

35. **Mohammad A. Alia**, Khulood Abu Maria, Maher A. Alsarayreh Eman Abu Maria and Sally Almanasra,"An Improved Video Steganography: Using Random Key-Dependent", 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 2019-Amman-Jordan.

36. Mohammad Shehab, Ahamad Tajudin Khader, **Mohammad A. Alia**, "Enhancing Cuckoo Search Algorithm by using Reinforcement Learning for Constrained Engineering Optimization Problems". 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 2019-Amman-Jordan.

37. Tarek Kanan ; Odai Sadaqa ; Amal Aldajeh ; Hanadi Alshwabka ; Wassan AL-dolime ; Shadi AlZu'bi ; **Mohammad A. Alia**."A Review of Natural Language Processing and Machine Learning Tools Used to Analyze Arabic Social Media". 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 2019-Amman-Jordan.

38. Eman Abu Maria, Khulood Abu Maria and **Mohammad A. Alia**," Smart Agents in the Business Information System", ICIC Express Letters: Journal of Innovative Computing, Information and Control , 2019

39. KA Maria, **Mohammad A. Alia**, MA Alsarayreh, EA Maria, " UN-Substituted Video Steganography", KSII Transactions on Internet & Information Systems 14 (1), 2020

40. M Baroudi **Mohammad A. Alia**, AW Marashdih, Evaluation of Accessibility and Usability of Higher Education Institutions' Websites of Jordan 2020 11th International Conference on Information and Communication Systems , IEEE, 2020.

41.   Y Jaradat, M Masoud, S Al-Jazzar, **Mohammad A. Alia**, "Optimal network dimensions for energy conservation in clustered 3D WSN",Wireless Networks, 1-13, 2021

42. A Hnaif, K Jaber, **Mohammad A. Alia**, M Daghbosheh, "Parallel Scalable Approximate Matching Algorithm for Network Intrusion Detection Systems", INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY 18 (1), 77-84, 2021

43. M Maqableh, **Mohammad A. Alia**, " Evaluation online learning of undergraduate students under lockdown amidst COVID-19 Pandemic: The online learning experience and students' satisfaction", Elsevier- Children and Youth Services Review 128, 106160   19   2021

44. Z Marashdeh, **Mohammad A. Alia,** K Suwais**,** "A Survey on SQL Injection Attack: Detection and Challenges", 2021 International Conference on Information Technology (ICIT), 957-962   2021.

45. MZ Masoud, Y Jaradat, A Manasrah, I Jannoud**, M Alia**, " May I Know your IBAN? Cracking the Short Message Service (SMS) as a Second Factor Authentication for Online Payments", 2021 International Conference on Information Technology (ICIT), 758-762   2021.

46. WS Aldolimi, AA Hnaif, **Mohammad A. Alia**, " Light Fidelity to Transfer Secure Data Using Advanced Encryption Standard Algorithm", 2021 International Conference on Information Technology (ICIT), 963-967   2021.

47. NA Al-Madi, KA Maria, MA Al-Madi, **Mohammad A. Alia**, EA Maria, " An Intelligent Arabic Chatbot System Proposed Framework". 2021 International Conference on Information Technology (ICIT), 592-597   2021.

48. Y Jaradat, M Masoud, I Jannoud, A Manasrah, **Mohammad A. Alia, A** Tutorial on Singular Value Decomposition with Applications on Image Compression and Dimensionality Reduction
2021 International Conference on Information Technology (ICIT), 769-772
    2021.

49. Y Jaradat, M Masoud, S Al-Jazzar, **Mohammad A. Alia**, "Optimal network dimensions for energy conservation in clustered 3D WSN", Wireless Networks 27 (3), 1821-1833.

50. Ismael Jannoud, Yousef Jaradat, Mohammad Z. Masoud, Ahmad Manasrah, **Mohammad A. Alia,** "The Role of Genetic Algorithm Selection Operators in Extending WSN Stability Period: A Comparative Study", Electronics, Accepted 2021/Dec.

51. Y Jaradat, M Masoud, I Jannoud, **M Alia**, O Alheyasat, I Jebril, " Analysis of the optimal number of clusters and probability in homogeneous unreliable WSNs", Multimedia Tools and Applications, 1-20, 2022

52. Y Jaradat, **M Alia**, M Masoud, A Manasrah, I Jebreil, A Garaibeh, "A bibliometric analysis of the International Journal of Advances in Soft Computing and its Applications: Research influence and Contributions.", International Journal of Advances in Soft Computing & Its Applications 14 (2), 2022

53. A Manasrah, M Masoud, Y Jaradat**, M Alia,** A Zerek, "Private Tutoring During COVID in Jordan. Improving Academic Performance, or Chasing After an Illusion", 2022 IEEE 2nd International Maghreb Meeting of the Conference on Sciences, 2022

54. M Elbes, T Kanan, **M Alia**, M Ziad,, "COVD-19 Detection Platform from X-ray Images using Deep Learning" , Int. J. Advance Soft Compu. Appl 14 (1)