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

# CURRICULUM VITAE

## Ayman Mahmoud Aref Abdalla

*Department of Computer Science / Faculty of Science & I.T.,*

*Al-Zaytoonah University of Jordan, Amman, Jordan*

*E-mail: ayman@zuj.edu.jo, amabdalla@yahoo.com*

*Google Scholar: https://scholar.google.com/citations?user=tTWF8HoAAAAJ&hl=en&oi=ao*

*Scopus: https://www.scopus.com/authid/detail.uri?authorId=57255088300*

### 1. Personal Data
Date of Birth: 26 November 1970
Nationality: Jordanian

### 2. Education

- Ph.D. (Computer Science) May 2001, University of Central Florida, Orlando, FL, USA

- M.S. (Computer Science) May 1996, Montclair State University, Montclair, NJ, USA

- B.S. (Computer Science) Aug. 1992, Montclair State University, Montclair, NJ, USA

### 3. Ph.D. Dissertation

*Computing a diameter-constrained minimum spanning tree*, University of Central Florida, Orlando, FL, USA

### 4. Employment

*Academic and Professional Positions*
- Associate Professor, Department of Computer Science, Al-Zaytoonah University of Jordan, Amman, Jordan
  14 March 2016 – present
- Assistant Professor, Department of Computer Science / Department of Multimedia Systems, Al-Zaytoonah University of Jordan, Amman, Jordan
  1 July 2001 – 14 March 2016
- Graduate Teaching Assistant, School of Computer Science, University of Central Florida, Orlando, FL, USA
  Jan. 1997 – May 2001
- Development Co-Op, ImageSoft Technologies (Fiserv), Maitland, FL, USA
  June 1999 – Dec. 1999
- Graduate Assistant, Tutorial Center, Montclair State University, Montclair, NJ, USA
  Sept. 1992 – May 1996

*Administrative Positions*
- Chair of the Department of Multimedia Systems, Faculty of Science and Information Technology, Al-Zaytoonah University of Jordan, Amman, Jordan
  Oct. 2010 to Oct. 2013
- Coordinator, Joint BSc Computer Studies (Honors) Program (with the University of Sunderland, Sunderland, UK), Faculty of Science and Information Technology, Al-Zaytoonah University of Jordan, Amman, Jordan
  Oct. 2004 to May 2007

5. **Research Interests**
   Image Processing (Encryption, Segmentation, and Classification)

6. **Honors and Awards**
   - Dedicated Service and Valuable Contribution Award, ICIT 2023
   - Appreciation Award, JEEIT 2019
   - Valuable Contribution to Quality Assurance Award, ZUJ, 2018
   - Dedicated Service and Valuable Contribution Award, ICIT 2017

7. **Fellowships and Scholarships**
   - Graduate Teaching Assistantship (Scholarship), School of Computer Science, University of Central Florida, Orlando, FL, USA
     Jan. 1997 – May 2001
   - Development Co-Op (Fellowship), ImageSoft Tech. (Fiserv), Maitland, FL, USA
     June 1999 – Dec. 1999
   - Graduate Assistantship (Scholarship), Tutorial Center, Montclair State University, Montclair, NJ, USA
     Sept. 1992 – May 1996

9. **Teaching Experience**

   - *Graduate Courses*
     Advanced Operating Systems, Advanced Algorithms Design and Analysis

   - *Undergraduate Courses*
     Algorithms, Data Structures, Operating Systems, Computation Theory, Computer Networks, Image Processing, Computer Graphics, Color Spectrum, Object Oriented Programming, Design of Programming Languages, Information Technology & Society, Compiler Design, Systems Software Design

10. **Supervision of Graduate Research**

- Qasem H. Makki, Image Encryption Using Variable Circular-Shifting, Permutation Expansion and XOR, 2022. (Master's Supervisor, ZUJ, Jordan)
- Manal A. Mizher, A flexible selective cryptosystem for meshed 3D textured animated objects and images using cellular automata, 2020. (Ph.D. Co-Supervisor, Universiti Kebangsaan Malaysia, Malaysia)
- Mohammad Abu Awwad, Automatic Segmentation and Detection System for Varicocele in Supine Position on Ultrasound Images, 2020. (Master's Co-Supervisor, Jordan University of Science and Technology, Jordan)
- Asma H.S. Al-Sanahni, Face Identification from a Partial Face View, 2018. (Master's Co-Supervisor, ZUJ, Jordan)
- Wafaa H.S. Alshoura, A Novel Image Cryptosystem Based on a 3D Chaotic Hash Function, 2017. (Master's Supervisor, ZUJ, Jordan)
- Dyala R.S. Ibrahim, A Secure Visual Cryptography System For Identification Cards, 2016. (Master's Co-Supervisor, ZUJ, Jordan)
- Ahmad B. Marzouq, A Novel Automatic Parallelization Model for Sequential Code using Python Programming Language, 2015. (Master's Co-Supervisor, ZUJ, Jordan)
- Ahmad A. Mazhar, Complexity Reduction Techniques for H.264 Video Coding, 2012. (Ph.D. Local Supervisor, De Montfort University, UK)
- Ahmad Abu Sukhon, An Investigation Into Improving the Load Balance and Query Throughput of Distributed IR Systems, 2009. (Ph.D. Local Supervisor, University of Sunderland, UK)

## 11. Grants

- M. Salah, **A. Abdalla** and M. Abdallah, *The Effect of Using Virtual and Augment Reality Technologies in Education and Marketing – Al-Zaytoonah University as Case Study*, 2/2021–2/2023.
  (JOD 40,499 – funded by Al-Zaytoonah University of Jordan, Amman, Jordan).
- O. Alzoubi and **A. Abdalla**, *Classification of Ovarian Cancer on CT Images Using Convolutional Neural Network (CNN)*, 11/2021–11/2022.
  (JOD 2,500 – funded by Jordan University of Science & Technology, Irbid, Jordan).
- M. Abdallah, M. Muhairat, A. Althunibat and **A. Abdalla**, *A New Quality Model for Measuring Big Data Applications*, 4/2019–10/2020.
  (JOD 7,168 – funded by Al-Zaytoonah University of Jordan, Amman, Jordan).
- **A. Abdalla**, M. Salah and S. Khalaf, *Load-Balancing of Virtual Tours in Distributed Systems*, 5/2012–7/2014.
  (JOD 60,954 – funded by Al-Zaytoonah University of Jordan, Amman, Jordan).
- **A. Abdalla** and A. Abusukhon, *Parallel Information Retrieval*, 7/2007–7/2008.
  (JOD 11,000 – funded by Al-Zaytoonah University of Jordan, Amman, Jordan).

## 12. Patent (*Pending*)

O. Alzoubi, M. Abu Awwad, and **A. Abdalla**, *A system and method for detecting varicocele in ultrasound images in supine position*, World Intellectual Property Organization (**WO 2022/249217**), Published 1 Dec. 2022.
https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2022249217&_cid=P12-LB4ZYE-97757-1

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

### 13. Membership of Committees

- **National and International**
  - *Served as a Track Chair and served on various committees including the Organizing, Technical, and Editing Committees of the biannual International Conference on Information Technology, at ZUJ, Amman, Jordan from 2003 to 2023*
  - *Served as a Track Chair for the 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology*
- **University**
  - *A member of the Board of the Faculty of Science & IT, from 10/2009 to 10/2013 and 10/2016 to 10/2017*
  - *The Head of the Computer-Science Course-Plan & References Committee from 10/2013 to 10/2014 and a member from 10/2017 to present*
  - *The Head of the Multimedia Course-Plan & References Committee from 10/2014 to 10/2017*
  - *A member of the Computer-Science Academic Advising, Training & Alumni Follow-Up Committee from 10/2017 to 10/2019*
  - *A member of the Computer-Science Examination & Evaluation Committee from 10/2017 to present*
  - *A member of the Faculty of Science & IT Quality Assurance Committee from 10/2003 to 10/2005 and 10/2019 to present*
  - *A member of the Faculty of Science & IT committees for ABET and ASIC international accreditation preparation from 10/2021 to 10/2022*

### 14. Professional and Scientific Meetings

*Scientific Meetings Organized*

- Served as a Track Chair for the 2023 International Conference on Information Technology in Amman, Jordan.
- Served on various committees including the Organizing Committee, Technical Committee, and Editing Committee of the biannual International Conference on Information Technology in Amman, Jordan from 2003 to 2023 as well as chairing difference sessions at these conferences.
- Served as a Track Chair for the 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology in Amman, Jordan.
- Organized a workshop on using multimedia in advertising at ZUJ in March 2013.

*Participation in Scientific Meetings*

- International Conference on Information Technology, Amman, Jordan, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021, and 2023 where the 2019 conference was a part of the 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology.
- Workshop on Developing of Leadership and Innovation Skills, ZUJ, 3-5 Oct 2022.
- Workshop on the National Qualifications Framework, ZUJ, 15-17 Feb 2021.
- World Conference on Smart Trends in Systems, Security and Sustainability (WS4), London, UK, 30-31 Oct 2018.
- Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Baton Rouge, LA, USA, 26 Feb to 2 March 2001.

- Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, USA, 13-18 March 2000.
- Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, USA, 8-12 March 1999.
- Several other scientific meetings, seminars, and colloquiums at ZUJ.

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

- Faculty members' meeting with multimedia companies, ZUJ, 2017. (Organization)
- Alumni reunion, ZUJ, 2012 and 2017. (Organization)
- Seminar on Cinema 4D for IT students, ZUJ, 2013. (Organization)
- Open day for IT students, ZUJ, 2011. (Organization)
- Attending various sports events at ZUJ. (Participation)
- Attending various seminars, workshops, and events at ZUJ. (Participation)

### 16. Publications

### A. Journal Articles:

1. M. Salah, **A. Abdalla**, M. Abdallah, A. Mazhar, B. Alokush, I. Jebril, *Using Virtual Tours as a University Campus Guide: Al- Zaytoonah University Case Study*, Information Sciences Letters, vol. 12(9): pp. 2961-2970, 2023.
   https://www.naturalspublishing.com/Article.asp?ArtcID=27576

2. M. Al Rifaee, M. Abdallah, M. Salah, and **A. Abdalla**, *Unconstrained Hand Dorsal Veins Image Database and Recognition System*, Computers, Materials and Continua, vol. 73(3): pp. 5063-5073, 2022.
   https://www.techscience.com/cmc/v73n3/49043

3. **A. Abdalla**, M. Abu Awad, O. AlZoubi, and L. Al-Samrraie, *Automatic Segmentation and Detection System for Varicocele Using Ultrasound Images*, Computers, Materials and Continua, vol. 72(1): pp. 797-814, 2022.
   https://www.techscience.com/cmc/v72n1/46914

4. O. AlZoubi, M. Abu Awad, and **A. Abdalla**, *Automatic Segmentation and Detection System for Varicocele in Supine Position*, IEEE Access, vol. 9: pp. 125393-125402, 2021.
   https://doi.org/10.1109/ACCESS.2021.3111021

5. A. Hnaif, A. Tamimi, **A. Abdalla**, and I. Jebril, *A Fault-Handling Method for the Hamiltonian Cycle in the Hypercube Topology*, Computers, Materials and Continua, vol. 68(1): pp. 505-519, 2021.
   https://doi.org/10.32604/cmc.2021.016123

6. Manal Mizher, R. Sulaiman, **A. Abdalla** and Manar Mizher, *A simple flexible cryptosystem for meshed 3D objects and images*, Journal of King Saud University - Computer and Information Sciences, vol. 33(6): pp. 629-646, 2021.
   https://doi.org/10.1016/j.jksuci.2019.03.008

7. M. Abdallah, M. Muhairat, A. Althunibat and **A. Abdalla**, *Big Data Quality: Factors, Frameworks, and Challenges*, COMPUSOFT: An International Journal of Advanced Computer Technology, vol. 9(8), pp. 3785-3790, 2020.
   https://ijact.in/index.php/ijact/article/view/1164

8. **A. Abdalla**, A. Al-Sanhani and A. Tamimi, *Face recognition from a partial face view by partitioning and rotating facial images,* COMPUSOFT: An International Journal of Advanced Computer Technology, vol. 8(12): pp. 3501-3506, 2019.
   https://ijact.in/index.php/ijact/article/view/1039/708

9. Manal Mizher, R. Sulaiman, **A. Abdalla** and Manar Mizher, *An Improved Simple Flexible Cryptosystem for 3D Objects with Texture Maps and 2D Images*, Journal of Information Security and Applications, vol. 47: pp. 390-409, 2019.
   https://doi.org/10.1016/j.jisa.2019.06.005

10. M. Alia, A. Hnaif, **A. Abdalla** and E. Abu Maria, *An improved authentication scheme based on graphical passwords*, ICIC Express Letters, vol. 12(8): pp. 775-783, 2018.
    http://www.icicel.org/ell/contents/2018/8/el-12-08-05.pdf

11. A. Mazhar and **A. Abdalla**, *Trade-off of frame-rate and resolution in online game streaming*, Journal of Computer Science, vol. 13(10): pp. 505-513, 2017.
    http://thescipub.com/abstract/10.3844/ofsp.11466

12. A. Almghawish, **A. Abdalla** and A. Marzouq, *An automatic parallelizing model for sequential code using Python*, International Journal of Advanced Research in Computer Science and Software Engineering, vol. 7(3): pp. 276-282, 2017.
    http://www.ijarcsse.com/docs/papers/Volume_7/3_March2017/V7I3-01324.pdf

13. **A. Abdalla**, M. Abdallah and M. Salah, *A brief program robustness survey*, International Journal of Software Engineering & Applications, vol. 8(1): pp. 1-10, 2017.
    http://aircconline.com/ijsea/V8N1/8117ijsea01.pdf

14. A. Mazhar and **A. Abdalla**, *Joint reference frame inter-mode selection for fast H.264 video coding*, Signal, Image and Video Processing, vol. 10(4): pp. 617-623, 2016.
    http://link.springer.com/article/10.1007/s11760-015-0785-1

15. Manar A. Mizher, S.H. Al-Sharaeh, M.C. Ang, **A. Abdalla** and Manal A. Mizher, *Centroid dynamic sink location for clustered wireless mobile sensor networks*, Journal of Theoretical and Applied Information Technology, vol. 73(3): pp. 481-491, 2015.
    http://www.jatit.org/volumes/Vol73No3/18Vol73No3.pdf

16. **A. Abdalla**, A. Mazhar, M. Salah and S. Khalaf, *Comparative study of compression techniques for synthetic videos*, International Journal of Multimedia & Its Applications, vol. 6(2): pp. 1-10, 2014.
    http://airccse.org/journal/jma/6214ijma01.pdf

17. A. Tamimi, **A. Abdalla** and O. Al-Allaf, *Hiding an image inside another image using variable-rate steganography*, International Journal of Advanced Computer Science and Applications, vol. 4(10): pp. 18-21, 2013.
    http://thesai.org/Downloads/Volume4No10/Paper_4-Hiding_an_Image_inside_another_Image.pdf

18. **A. Abdalla**, *Variable-rate steganography using RGB stego-images*, European Scientific Journal, vol. 9(15): pp. 62-67, 2013.
    http://eujournal.org/index.php/esj/article/view/1090/1124

19. **A. Abdalla** and A. Tamimi, *Algorithm for image mixing and encryption*, International Journal of Multimedia & Its Applications, vol. 5(2): pp. 15-21, 2013.
    http://airccse.org/journal/jma/5213ijma02.pdf

20. A. Abusukhon, M. Oakes and **A. Abdalla**, *Performance analysis of distributed IR systems: document-based, term-based and hybrid partitioning*, International Journal of Information Studies, vol. 1(1): pp. 40-49, 2009.
    http://www.istudies.net/ojs/index.php/journal/article/view/27/27

21. A. Yahya and **A. Abdalla**, *A shuffle image-encryption algorithm*, Journal of Computer Science, vol. 4(12): pp. 999-1002, 2008.
    http://dx.doi.org/10.3844/jcssp.2008.999.1002

22. M. Nabulsi and **A. Abdalla**, *The relationship between exclusive-or and the unique existential quantifier*, Journal of Computer Science, vol. 4(9): pp. 741-743, 2008.
    http://dx.doi.org/10.3844/jcssp.2008.741.743

23. M. Nabulsi and **A. Abdalla**, *A method of deductive logical inference proofs*, Journal of Computer Science, vol. 4(4): pp. 345-348, 2008.
http://dx.doi.org/10.3844/jcssp.2008.345.348

24. A. Yahya and **A. Abdalla**, *Implementation of matrix folding in multimedia transmission*, Information Technology Journal, (Formerly: Pakistan J. Information & Technology), vol. 2(2): pp. 154-158, 2003.
http://www.scialert.net/qredirect.php?doi=itj.2003.154.158&linkid=pdf

25. A. Yahya, **A. Abdalla** and K. Al-Qawasmi, *Compressing video using matrix folding*, Information Technology Journal, (Formerly: Pakistan J. Information & Technology), vol. 2(1): pp. 61-64, 2003.
http://www.scialert.net/qredirect.php?doi=itj.2003.61.64&linkid=pdf

26. **A. Abdalla** and N. Deo, *Random-tree diameter and the diameter-constrained MST*, International Journal of Computer Mathematics, vol. 79(6): pp. 651-663, 2002.
http://dx.doi.org/10.1080/00207160211289

27. **A. Abdalla**, N. Deo and P. Gupta, *Random-tree diameter and the diameter-constrained MST*, Congressus Numerantium, vol. 144: pp. 161-182, 2000.

28. **A. Abdalla**, N. Deo and R. Fanceschini, *Parallel heuristics for the diameter-constrained MST problem*, Congressus Numerantium, vol. 136: pp.97-118, 1999.

29. **A. Abdalla**, N. Deo, N. Kumar and T. Terry, *Parallel computation of diameter-constrained MST and related problems*, Congressus Numerantium, vol. 126: pp. 131-155, 1997.

## B. Conference Proceedings / Book Chapters:

1. Mohammad Abu Awad, Laaly Samrraie, Ayman M. Abdalla, Omar Alzoubi, Aya Migdady* and Muneer Bani Yassein, *Ovarian Cancer Detection in CT Scan Images Using Transfer Learning*, The 14th International Conference on Information & Communication Systems, Irbid, Jordan. 21-23 Nov 2023.
https://www.just.edu.jo/icics/assets/files/TP-01.pdf

2. Omar Alzoubi, Mohammad Abu Awad, Ayman M. Abdalla, Laaly Samrraie, Aya Migdady and Muneer Bani Yassein, *A Deep Learning Approach for Varicocele Detection from Ultrasound Images*, The 14th International Conference on Information & Communication Systems, Irbid, Jordan. 21-23 Nov 2023.
https://www.just.edu.jo/icics/assets/files/TP-01.pdf

3. Q. H. Makki and **A. Abdalla**, *An Image Encryption Algorithm Based on XOR, Flipping, Expansion Permutation and Shifting,* 2023 International Conference on Information Technology (ICIT), Amman, Jordan, 2023, pp. 700-704.
https://ieeexplore.ieee.org/abstract/document/10225920

4. S. Hendawi, I. Altalahin, S. AlZu'bi and **A. Abdalla**, *Diameter-Constrained Minimum Spanning Tree Problems: A Survey,* 2023 International Conference on Information Technology (ICIT), Amman, Jordan, 2023, pp. 771-774.
https://ieeexplore.ieee.org/abstract/document/10225920

5. M. Salah, **A. Abdalla**, and M. Abdallah, *Evaluation of Existing Virtual Tour Studies and Their Applicability to Jordanian Universities*, 2023 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), Amman, Jordan. 22-24 May 2023.
https://ieeexplore.ieee.org/abstract/document/10185675

6. S. Alzubi, S. Abushanap, I. Talhaeen, **A. Abdalla**, and A. Tamimi, *Secure Transmission of Noisy Images over Fiber Optic Communication*, The 9th Int'l Conf on Internet of Things: Systems, Management and Security (IOTSMS 2022), Milan, Italy, 29 Nov to 1 Dec 2022.
http://emergingtechnet.org/IOTSMS2022/index.php

7. Y. AbdulGhani, Q. Makki, **A. Abdalla**, and A. Tamimi, *A Multi-Buffer Congestion Resolution Scheme Using Prioritization and Shortest Path Algorithms*, The International Computer Sciences and Informatics Conference (ICSIC-2022), Amman, Jordan, 28-29 June 2022. Printed in AIP Conference Proceedings, vol. 2979, no. 1, p. 20002, Oct. 2023.
https://doi.org/10.1063/5.0176916

8. A. Tamimi, M. Mohammed, and **A. Abdalla**, *Artificial Intelligence Applications to Develop the Skills of Soccer Players*, The 23rd Int'l Conf on Artificial Intelligence (ICAI'21), Las Vegas, NV, USA. 26-29 July 2021. Printed in Transactions on Computational Science and Computational Intelligence [ed. H.R. Arabnia], Springer Nature, 2022.
https://www.springer.com/series/11769

9. R. Sulaiman, M.A. Al-Jabbar, A. Ahmadian, and **A. Abdalla**, *Cryptosystem for Meshed 3D through Cellular Automata*, Soft Computing Approach for Mathematical Modeling of Engineering Problems. [eds. A. Ahmadian, & S. Salahshour], CRC Press (Taylor & Francis), 2021.
https://doi.org/10.1201/9781003138341

10. Q. Makki, **A. Abdalla**, and A. Tamimi, *A Survey of Image Encryption Algorithms*, 2021 International Conference on Information Technology (ICIT'2021), Amman, Jordan. 14-15 July 2021.
http://icit.zuj.edu.jo/icit2021/Index.html

11. S. Abushanap, **A. Abdalla**, A. Tamimi, and S. AlZu'bi, *A Survey of Human Face Recognition for Partial Face View*, 2021 International Conference on Information Technology (ICIT'2021), Amman, Jordan. 14-15 July 2021.
http://icit.zuj.edu.jo/icit2021/Index.html

12. H. Al Qaisi, G. Quba, A. Althunibat, **A. Abdalla**, and S. AlZu'bi, *An Intelligent Prototype for Requirements Validation Process Using Machine Learning Algorithms*, 2021 International Conference on Information Technology (ICIT'2021), Amman, Jordan. 14-15 July 2021.
http://icit.zuj.edu.jo/icit2021/Index.html

13. **A. Abdalla**, I. Ghaith, and A. Tamimi, *Deep Learning Weather Forecasting Techniques: Literature Survey*, 2021 International Conference on Information Technology (ICIT'2021), Amman, Jordan. 14-15 July 2021.
http://icit.zuj.edu.jo/icit2021/Index.html

14. K. Jaber, M. Abduljawad, N. AlQbailat, M. Abdallah and **A. Abdalla**, *An E-Learning Portal Quality Model: From Al-Zaytoonah University Students' Perspective*, 2021 International Conference on Information Technology (ICIT'2021), Amman, Jordan. 14-15 July 2021.
http://icit.zuj.edu.jo/icit2021/Index.html

15. A. Tamimi, **A. Abdalla**, M. Abdallah, *Utilizing Quality Measures in Evaluating Image Encryption Methods*, The 24th Int'l Conf on Image Processing, Computer Vision, & Pattern Recognition (IPCV'20), Las Vegas, NV, USA. 27-30 July 2020. Printed in Advances in Computer Vision and Computational Biology [eds. H.R. Arabnia, L. Deligiannidis, H. Shouno, F.G. Tinetti, Q.-N. Tran], Springer Nature, 2021.
https://doi.org/10.1007/978-3-030-71051-4_21

16. A. Tamimi, A. Abu Hammad, **A. Abdalla** and O. Al-Allaf, *A System for the Detection and Identification of Objects and Their Distances to Aid Blind People*, 23rd International Conference on Image Processing, Computer Vision, & Pattern Recognition (IPCV'19), Las Vegas, NV, USA. 29 July – 1 August 2019.
https://www.proceedings.com/64218.html

17. A. Tamimi, **A. Abdalla** and H. Abu-Ryash, *An Emergency Vehicle Navigation Algorithm Based on Subgraphs*, 18th International Conference on Wireless Networks (ICWN'19), Las Vegas, NV, USA. 29 July – 1 August 2019.
https://americancse.org/events/csce2019/conferences/icwn19

18. M. Abdallah and **A. Abdalla**, *Using Clause Slicing as Program Robustness Measurement Technique*, 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), pp. 19-22, Amman, Jordan. 8-11 April 2019.
https://ieeexplore.ieee.org/document/8717424

19. **A. Abdalla**, M. Osman, H. AlShawabkah, O. Rumman and M. Mherat, *A review of nonlinear image-denoising techniques*, 2018 Second World Conference on Smart Trends in Systems, Security and Sustainability (WS4), pp. 96-100, London, United Kingdom. 30-31 October 2018.
https://ieeexplore.ieee.org/document/8611606

20. A. Tamimi and **A. Abdalla**, *A variable circular-shift image-encryption algorithm*, In Proceedings of the International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV '17), pp. 33-37, Las Vegas, NV, USA. 17-20 July 2017.
https://csce.ucmss.com/cr/books/2017/LFS/CSREA2017/IPC3422.pdf

21. D. Ibrahim, A. Tamimi and **A. Abdalla**, *Performance Analysis of Biometric Recognition Modalitie*s, International Conference on Information Technology (ICIT'2017), pp. 980-984, Amman, Jordan. 17-18 May 2017.
http://ieeexplore.ieee.org/document/8079977

22. A. Tamimi and **A. Abdalla**, *An image encryption algorithm with XOR and S-box*, In The 19th International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV '15), pp. 166-169, Las Vegas, NV, USA. 27-30 July 2015.
http://worldcomp-proceedings.com/proc/p2015/IPC2937.pdf

23. A. Tamimi and **A. Abdalla**, *An audio shuffle-encryption algorithm*, In The International Conference on Internet and Multimedia Technologies (ICIMT '14), (Printed in Proceedings of the World Congress on Engineering and Computer Science 2014), Vol I: pp. 409-412, San Francisco, CA, USA. 22-24 October 2014.
http://www.iaeng.org/publication/WCECS2014/WCECS2014_pp409-412.pdf

24. A. Tamimi and **A. Abdalla**, *A double-shuffle image-encryption algorithm*, In The 2012 International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV '12), Las Vegas, NV, USA. 16-19 July 2012. Printed in Image Processing, Computer Vision, and Pattern Recognition [eds. H.R. Arabnia and L. Deligiannidis], pp. 496-499, CSREA Press, 2012.
http://weblidi.info.unlp.edu.ar/worldcomp2012-mirror/p2012/IPC2140.pdf

25. A. Yahya and **A. Abdalla**, *An AES-based encryption algorithm with shuffling*, In The 2009 International Conference on Security and Management (SAM '09), Las Vegas, NV, USA. 13-16 July 2009. Printed in Security and Management [eds. H.R. Arabnia and K. Daimi], pp. 113-116, CSREA Press, 2009.
http://www.bibsonomy.org/bibtex/2188e14cd290b3483a24c4075d1b41c0e/dblp

26. A. Abusukhon, M.P. Oakes, M. Talib and **A. Abdalla**. *Comparison between document-based, term-based and hybrid partitioning*, In First International Conference on the Applications of Digital Information and Web Technologies (ICADIWT '08), Czech Republic, 4-6 August 2008. Printed in Applications of Digital Information and Web Technologies [eds. V. Snasel, J. Pokorny, P. Pichappan, E. El-Qawasmeh and E. Ariwa], pp. 90-95, IEEE, 2008.
http://dx.doi.org/10.1109/ICADIWT.2008.4664324

27. N. Deo and **A. Abdalla**, *Computing a diameter-constrained minimum spanning tree in parallel*, In The 4th Italian Conference on Algorithms and Complexity, CIAC 2000, Rome, Italy, 1-3 March 2000. Printed in Algorithms and Complexity, Lecture Notes in Computer Science [eds. Bongiovanni, Gambosi, and Petreschi], no. 1767, pp. 17-31, Springer-Verlag, New York, 2000.
http://www.springer.com/us/book/9783540671596