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Scopus id

<https://scholar.google.com/citations?user=3JiXLQMAAAAJ&hl=ar>

Website

<https://uliyandiaa.wixsite.com/diaa-uliyan>

My Patent ID:

<https://patentscope.wipo.int/search/en/detail.jsf?docId=MY218132819>

Research scope

Digital Image Forensics:

1. Copy Move Forgery Detection.
2. Image Splicing.
3. Blurred Region Duplication Forgery Detection.

Diaa Mohammed Uliyan

Assistant Professor-Computer Science
Digital image forensics

Career objectives

- To work with a reputed university as an assistant professor, that will provide me a good platform to utilize my research, teaching and administrative skills.
- To gain recognition amongst the companions based on my qualities and research abilities.

Qualifications

August 2012 – July 2016

University Of Malaya (UM), Malaysia. The UM ranking in 2018-2018 is **70th** based on QS World University Rankings. Furthermore, UM with QS World Ranking by Faculty of Computer Science and Information Systems is **51th-100th**.

<http://spm.um.edu.my/2018/06/07/university-of-malaya-is-now-87-on-the-qs-world-university-ranking/>

Doctor of Philosophy (Ph.D.) in Computer Science and Information Technology. Thesis Title: A Geometric Invariant Region Duplication Forgery Detection Technique in Digital Images Based on Keypoint Matching.

Research Scope: **Digital Image Forensics and Multimedia Security.**

My google scholar: <https://scholar.google.com/citations?user=3JiXLQMAAAAJ&hl=ar>

July 2003 – July 2008

Amman Arab University for Graduate Studies, Jordan.

Master of Computer Science.

Cumulative Grade Point Average (CGPA) is 3.85 Out Of 4.00.

Dissertation Title: Digital Image Watermarking Techniques for Secure Communication.

January 1997 – September 2001

Applied Science University, Jordan

Bachelor of Computer Information System (Honors).

Cumulative Grade Average (CGA) is 81.6 (Very Good).

Experience

2016-2019

Organization: Middle East University, Jordan

Position: Assistant Professor

Responsibilities: Teaching Various Undergraduate Courses such as Software design, system analysis & design and data structures & algorithms. Furthermore, supervising Final Year Project for the undergraduate students in the Department of Computer Information Systems (CIS).

* head of committee for Quality assurance in research (QAR) in college of IT.

Responsibilities: managing research groups; managing research activities for the faculty members, implement statistical analysis that show grants and funds given for the college .The responsibilities of those involved in the research :

1. transparent project planning
2. the training and competence of research staff
3. facilities and equipment

4. Lighting Conditions in Forged Images.

4. documentation of procedures and methods
5. research records
6. the handling of samples and materials

2012 – 2014

Organization: University Of Malaya, Malaysia

Position: Research Assistant

Responsibilities: Handling Research Tasks for Giving Experiment Results in the Field Of Digital Image Forensic.

2008 – 2012

Organization: University Of Hail, Saudi Arabia

Position: Lecturer

Responsibilities: Teaching Various Undergraduate Courses and Supervising Final Year Project in the Department Of Computer Science (CS).

May 2002 – 2008

Organization: Hail Teachers College, Saudi Arabia

Position: Lecturer

Responsibilities: Teaching Various Undergraduate Courses and Supervising Final Year Project in The Department Of Computer Information Systems (CIS).

May 2002 – 2004

Organization: Hail Teachers College, Saudi Arabia

Position: System Administrator (Part Time)

Responsibilities: Handling All Processing Of The Faculty And Personnel Affairs In UOH And Day To Day Of HR System Administration.

January 2001 – 2002

Organization: Arab Community College, Jordan

Position: Instructor

Responsibilities: Teaching Two Diploma Courses Entitled "Internet Programming" And "Server Side Programming" For Diploma of Computer Science Students.



Matlab

C#

Cryptography

ASP.net

Java

System Administrator

Elearning

Quality Assurance

Academic Activities

2018-2019

* Reviewer in Journal of King Saud University - Computer and Information Sciences, Production and Hosting by Elsevier B.V. on behalf of King Saud University, Editor-in-Chief: Professor Nasser-Eddine Rikli.(Scopus)

* Reviewer in International Journal of Human-Computer Studies, Production and Hosting by Elsevier, Editor-in-Chief: Duncan P. Brumby (ISI, Scopus Impact Factor:2.3)

* Reviewer in journal of Signal Processing:Image communication, Theory, Techniques & Applications, Elsevier, Editor-In-Chief: F. Dufaux. Impact Factor: 2.073

* Reviewer in journal of Mathematical Problems in Engineering, Hindawi publisher, Leonardo Acho, Escuela de Ingeniería de Barcelona Este. EEBE — UPC, Spain.

* Reviewer in IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT),2019, Jordan, Aqaba.

* Reviewer in international journal of Signal and Imaging systems engineering, inderscience publisher, scopus indexed. United Kingdom P.O.Box 375.

* External examiner for Master thesis of the student Baraa Saber Alhourani, Universty of Jordan, King Abdulla II , school of IT, Department of Computer Information Systems. The title of Master Dissertation is “No-Reference Video Quality Assessment”.

2017-2018, 2016-2017

*Program Committee: International Conference on Future Networks and Distributed Systems (ICFNDS) 2017, Cambridge, UK
<http://www.icfnds.org/committee.html>

*Program Committee: International Conference on Future Networks and Distributed Systems (ICFNDS) 2018, Amman, Jordan
<http://www.icfnds.org/committee.html>

*Reviewer in Advances in Science, Technology and Engineering Systems Journal (ASTESJ) , United States, ASTES Publishers, 340 S LEMON AVE #8894 WALNUT CA 91789, Contact No: +1-845-442-0352

2)2016-2017

*Committee member in Experts of Academic Excellence Research Centre, Jordan
<http://eaerc.com/events/singapore-conferences/acrdbmsh-march-2017/acrdbmsh-march-scientific-review-committee/>

3) July 27-28, 2017

*Reviewer in 1st International Conference on Evolving Research Insights in Social Sciences, Humanities, Business and Management Studies, Osaka, Japan.

*Reviewer in Pakistan Journal of Distance & Online Learning (PJDOL), Early Childhood Education & Elementary Teacher Education, Faculty of Education, Allama Iqbal Open University Islamabad Pakistan,ISSN-92-51-9057268.

*Reviewer in Technical Journal, University of Engineering and Technology, Taxila, Pakistan, <http://tj.uettaxila.edu.pk/index.php/technical-journal/>

4)2016-2017

* Committee member in Quality Assurance section, MEU.
Responsibilities: managing QA documents for exams and course files in the college of IT.

* Committee member in E learning system to manage and handle all online courses and uploading all related documents for students.

* head of committee in Quality assurance in college of IT.

5) 2016

Associate reviewer in Journal of Forensic Sciences & Criminal Investigation (JFSCI) ISSN: 2476-1311.

6) 2015

Presenter at Postgraduate Research Excellence Symposium (PgRES), Date : Tuesday, June 9, 2015 Venue: Hotel Pullman Kuala Lumpur, Bangsar,
URL : <http://umconference.um.edu.my/pgres>

7) 2016-2018

Supervision:

Co- supervisor for 1 master student in the research field: information security.

8) 2012 – 2014

Research Group: Collaboration On A Project Entitled "Image Forgery Detection Techniques In Digital Image Forensic". This Research Is Funded By The Ministry Of Higher Education Malaysia Under The FRGS Grant. Project No.: FP073-2015A. University Of Malay (UM), Malaysia.

Position: Research Collaborator.

9) 2012 – 2016

Research Group: Collaboration On A Funded Project Entitled "Digital Image Forensics", Funded By University Of Malaya, Malaysia.

Position: Research Member.

10) 2016

Committee member at International Conference on Libraries, Information & Society (ICOLIS 2016) Date: September 20, 2016, Venue: University of Malaya's PAUM, URL: <http://umconference.um.edu.my/ICOLIS2016>

Research Interests

My Research Interests Include Areas Like: Digital Image Processing, Computer Vision, Image Forensics, Texture Pattern Analysis, Automatic Object Recognition, Machine Learning, Face Detection And Data Mining.

Digital Image Forensics:

Copy Move Forgery Detection.

Image Splicing.

Blurred Region Duplication Forgery Detection.

Lighting Conditions in Forged Images.

Image Processing:

Image Recognition.

Image Enhancement.

Image Classification.

Bimodal and Multimodal Person Identification and Verification.

Handwritten Signatures-Based Person Identification and Verification.

Facial Recognition.

Emotion Recognition Using Facial Expressions.

Image Encryption and Stegography

Computer Vision:
Eye Detection
Face Detection
Scale Invariant Transform Features
3D Object Analysis

Research Funds

Awarded of impressive outstanding postgraduates UM fellowship scheme, Universiti Malaya, August 2012 - June 2014.

PHD research is funded by High impact research and development, UM Research grant (UMRG), Kuala Lumpur under grant No. This (UMRG) RG312-14AFR.

Academic Workshops

15, 16 August, 2015

High Impact Journal Writing and Publishing workshop - University Malaya / CCISUM conference. Kuala Lumpur, Malaysia.

17th to 19th January, 2017

Horizon 2020 proposal writing training, Higher Council for Science and Technology (HCST).Jordan.

Aug 29, 2017

Data science in WOLFRAM MATHEMATICA, Universiti Malaya @ FSKTM, KL, Malaysia.

Training Courses

27th April to 27th May 2017

Microsoft visual studio ASP.net, Pioneer Academy, Jordan, Amman.

2016, July

Fundamentals of Digital Image and Video Processing, Coursera.

2015, Feb, 20

Image filtering using Matlab, University of Malaya, FSKTM, Malaysia.

2017, October

Information Security Concepts and Secure Design Principles, Udemy

Teaching Courses

[Courses \(Undergraduate Degree Level\):](#)

- 1) Software Engineering.
- 2) Data Mining and Warehouse.
- 3) Software design.
- 4) System analysis & design.
- 5) Oracle forms and reports design.
- 6) Principle of Information Security
- 7) Web Development.
- 8) Digital Image Processing Using Matlab
- 9) Data Structures& algorithms.
- 10) Distributed systems
- 11) Principles of cryptography
- 12) E businessand Ecommerce.
- 13) C# programming
- 14) Computer Architecture
- 15) Management information system
- 16)E commerce,

Courses (Diploma Levels):

- 1) Introduction To Computer
- 2) Internet Programming Language
- 3) Server Side Programming
- 4) Visual Basic.

Graduation Projects for Undergraduate Students:

I am supervising more than 15 different graduation projects on various topics including:

- 1) Automatic Face Recognition
- 2) Buy2Me Online Store
- 3) Fraud Detection System
- 4) Online Voting System For Parliament General Elections
- 5) Quality Assurance of College IT (Archiving Document management system)

Research Publications

We contributed to the University of Malay by publishing Original articles in highly reputed journals in the world. For instance, journal of Expert system with applications (ESWA) is ranked as 1st journal in the Google Scholar category of Artificial Intelligence. Based on the Thomson-Reuters JCR 2015 Report (released in June 2016), the Impact Factor 2015 of ESWA is 2.981. See the following link:

http://scholar.google.com/citations?view_op=top_venues&hl=en&vq=eng_artificialintelligence

JOURNALS AND CONFERENCES:

- 1) A Forensic Scheme for Revealing Post-processed Region Duplication Forgery in Suspected Images, Diao Mohammed Uliyan, Mohammed A. Fadhil Al-Husainy, Ahmad Mousa Altamimi, Hamid Abdullah Jalab, Journal of Telecommunication, Electronic and Computer Engineering, 2018, Volume 10 Issue 3, Pages 37-45, UTEM (*Scopus –Cited Index*).
- 2) An Intersection-based Segment Aware Algorithm for Geographic Routing in VANETs, Diao M. Uliyan, Yusor Rafid Bahar AL-Mayouf, Omar Adil Mahdi, ICICS 2018, “The 9th International Conference on Information and Communication Systems IEEE, Jordan, Irbid. (*Scopus-Cited indexed*)
- 3) A Smooth Textual Password Authentication Scheme Against Shoulder Surfing Attack, Mohammed A. Fadhil Al-Husainy*, Diao Mohammed Uliyan, Journal

- Of Theoretical And Applied Information Technology, 15th May 2018 Vol. 96. No. 9 – 2018 (*Scopus –Cited Index*).
- 4) Somayah Sadeghi; Sajjad Dadkhah; Hamid A. Jalab; Giuseppe Mazzola; Diao Uliyan.2018. State of the art in passive digital image forgery detection: Copy-Move image forgery. Pattern Analysis and Applications <https://doi.org/10.1007/s10044-017-0678-8>. (*ISI-Q3, IF=1.352*) (*ISI-Indexed*)
 - 5) Diao M. Uliyan, Mohammed Fadhil Al Husiany, Detection of Scaled Region Duplication Image Forgery using Color based Segmentation with LSB Signature , IJACSA, Volume 8, issue 5, 2017. (*ISI, SCOPUS Cited Publication*).
 - 6) Sajjad Dadkhah, Mario K ppen, Hamid A.Jalab, Somayah Sadeghi, Azizah Abdul Manaf and Diao Uliyan.2017. Electromagnetismlike Mechanism Descriptor with Fourier Transform for a Passive Copy-Move Forgery Detection in Digital Image Forensics. The International Conference on Pattern Recognition Applications and Methods(ICPRAM 2017). 24-26 February 2017Porto, Portugal. Publisher: Scitepress DOI: <http://dx.doi.org/10.5220/0006232206120619> (*SCOPUS-Indexed*).
 - 7) Image Encryption Technique based on the Entropy Value of a Random Block, Mohammed A. F. Al-Husainy, Diao Mohammed Uliyan, International Journal of Advanced Computer Science and Applications(IJACSA), Volume 8 Issue 7, 2017 (*SCOPUS-Indexed, ISI indexed*).
 - 8) Detection of Scaled Region Duplication Image Forgery using Color based Segmentation with LSB Signature, Diao M Uliyan, Mohammed Al-Husainy, nternational Journal of Advanced Computer Science and Applications(IJACSA), vol 8, issue 7, 2017, (*SCOPUS-Indexed, ISI indexed*).
 - 9) Segmented-Based Region Duplication Forgery Detection Using MOD Keypoints and Texture Descriptor, Diao M. Uliyan, Hamid A. Jalab, Abdelrahman Abuarqoub, ICFNDS '17: Proceedings of the International Conference on Future Networks',2017, ACM,UK, Cambridge. (*SCOPUS-Cited Publication*).
 - 10) A Shared Memory Method For Enhancing The HTNGH AlgorithmPerformance: Proposed Method, AA Muhannad A. Abu-Hashem, Diao M. Uliyan, ICFNDS '17: Proceedings of the International Conference on Future Networks, ACM,UK, Cambridge. (*SCOPUS-Cited Publication*).
 - 11) A Survey on Internet of Things Enabled Smart Campus Applications, Abdelrahman Abuarqoub, Hesham Abusaimah, Mohammad Hammoudeh, Diao Uliyan, ICFNDS '17: Proceedings of the International Conference on Future Networks',2017,ACM, UK, Cambridge. (*SCOPUS-Cited Publication*).
 - 12) Region Duplication Forgery Detection Technique Based on Keypoint Matching,Diao M Uliyan, Fakulti Sains Komputer dan Teknologi Maklumat, Universiti Malaya,2016 (*SCOPUS-Cited Publication*).
 - 13) Region Duplication Forgery Detection Technique Based on Keypoint Matching,Diao M Uliyan - Fakulti Sains Komputer dan Teknologi Maklumat, Universiti Malaya,2016. (*SCOPUS-Cited Publication*).
 - 14) Diao M. Uliyan, Hamid A. Jalab, Ainuddin W. Abdul Wahab(2016), Image Region Duplication Forgery Detection Based on Angular Radial Partitioning and Harris Key-Points. Symmetry Journal (*ISI-Q2, Q2-IF=0.841*) (*ISI/SCOPUS Cited Publication*).
 - 15) Diao M. Uliyan, Hamid A. Jalab, Ainuddin W. Abdul Wahab, Palaiahnakote Shivakumara (2016), A Novel Forged Blurred Region Detection System for

Image Forensic Applications. Expert systems with applications. (ISI, Q1-IF=2.981) (ISI/SCOPUS Cited Publication).

- 16) Somayeh Sadeghi, Hamid A. Jalab, KokSheik Wong, Daa M. Uliyan and Sajjad Dadkhah (2016). Keypoint Based Authentication and Localization of Copy-move Forgery in Digital Image. Malaysian Journal of Computer Science. (ISI, Q4-IF=0.476) (ISI/SCOPUS Cited Publication).
- 17) Daa M. Uliyan, Hamid A. Jalab, Ainuddin W. Abdul Wahab(2015). Copy Move Image Forgery Detection Using Hessian and Center Symmetric Local Binary Pattern. 2015 IEEE Conference on Open Systems, Malacca, Malaysia p.7:11. (SCOPUS-Cited Publication).
- 18) PARVEZ, HM Shahriar, et al. Copy-move Image Forgery Detection Based on Gabor Descriptors and K-Means Clustering. In: 2018 International Conference on Smart Computing and Electronic Enterprise (ICSCEE). IEEE, 2018. p. 1-6. (SCOPUS-Cited Publication).
- 19) Blur Invariant Features For Exposing Region Duplication Forgery Using ANMS And Local Phase Quantization, Daa Uliyan, Mohammad A. M. Abushariah, Ahmad Mousa Altamimi, Informatica an international journal of computing and informatics, 2018, Vol 42, No 4 (2018). (ISI, SCOPUS-Cited Publication).
- 20) evaluating the accuracy of data mining algorithms for detecting fake facebook profiles using rapidminer, weka, and orange Daa Mohammed Uliyan , Mohammed Basil Albayati, Ahmad Mousa Altamimi, Journal of Theoretical and Applied Information Technology, 2019, Volume 97, Issue 7 (37-47), Little Lion Scientific (Scopus Cited publication).
- 21) A New Password Authentication Scheme Resistant against Shoulder Surfing Attack, Daa Uliyan and Fadhil Mohammed, Journal of technology 技術學刊 第三十四卷 第一期 民國一八年, 2019, Volume 34, Issue1, Pages 25-35, National Taiwan University of Science and Technology. (ISI, SCOPUS-Cited Publication).


PATENT and INTELLECTUAL PROPERTY RIGHTS

(Product Name), (Type), (Reference), (Year), (Level):.

Method of Image Authentication for Detection and Localization of Image Forgery, PATENT, PI 2016002009, 14/11/2017, (UNIVERSITY).

<https://patentscope.wipo.int/search/en/detail.jsf?docId=MY218132819>

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Machine translation

1. (MYPI 2016002009) METHOD OF IMAGE AUTHENTICATION FOR DETECTION AND LOCALIZATION OF IMAGE FORGERY

National Biblio. Data PermaLink

Application Number: PI 2016002009 **Application Date:** 14.11.2016
Publication Number: PI 2016002009 **Publication Date:** 14.05.2018
Publication Kind : A

Applicants: UNIVERSITY OF MALAYA
Inventors: HAMID ABDULLA JALLB AL-TULEA
DIAA MOHAMMED ULIYAN
MOHAN K.
Agents: MOHAN K.
Priority Data:
Title: (EN) METHOD OF IMAGE AUTHENTICATION FOR DETECTION AND LOCALIZATION OF IMAGE FORGERY
Abstract: (EN) THE VARIOUS EMBODIMENTS OF THE PRESENT INVENTION DISCLOSE A METHOD FOR AN IMAGE PROCESSING AND FORGERY DETECTION. THE METHOD IS INITIATED WITH DETECTION OF AN OBJECT BASED ON A NORMALIZED CUT (NCUT) SEGMENTATION. A PLURALITY OF LOCAL INTEREST POINTS OF THE DETECTED OBJECT IS THEN LOCALIZED BASED ON A HESSIAN METHOD AND A FEATURE OF THE OBJECT IS EXTRACTED BASED ON A CENTER-SYMMETRIC LOCAL BINARY PATTERN (CSLBP). THE CSLBP PROVIDES DETAILS OF ANALYZING A PLURALITY OF PATTERNS OF INTEREST REGIONS OF SEGMENTS FOR A COPY-MOVE FORGERY DETECTION. ON THE BASIS OF DETERMINATION OF THE CSLBP, THE FORGED DUPLICATE REGIONS ARE DETECTED AND LOCALIZED. MOST ILLUSTRATIVE DRAWING: (FIGURE 1)

References

Dr. Ainuddin Wahid Bin Abdul Wahab

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ResearcherID <http://www.researcherid.com/rid/A-9293-2013>

Link

Scopus ID Link <http://www.scopus.com/authid/detail.url?authorId=26025772700>

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Homepage <https://umexpert.um.edu.my/hamidjalab.html>

ResearcherID <http://www.researcherid.com/rid/B-5285-2010>

Link

Scopus ID Link <http://www.scopus.com/authid/detail.url?authorId=36179737700>