

EMAD E. ABDALLAH, PhD

Department of Computer Information System
Faculty of Prince Al Hussein Bin Abdullah II
Hashemite University (HU)
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RESEARCHINTERESTS

Multimedia Security, Data Privacy, Networks, Digital Forensics, Cyber Security, Database constraints, and Patter Recognition.

QUALIFICATIONS

- Strong theoretical background in computer science.
- Over 10 years of experience in scientific research.
- Two years software development experience.
- Over 10 years of experience in teaching at university level.
- Ability to teach and transfer knowledge clearly and manage department professionally and accurately.
- Strong problem-solving, decision-making, task planning and leadership ability along with excellent interpersonal and communication skills.
- Ability to work independently and to incorporate with a group to investigate problems in different research topics
- Well-organized and results-oriented person with proven ability to define problems, find solutions and take appropriate action.
- Motivated, reliable, confident, and committed to professional standards.

EDUCATION

- Sept. 2004 –April. 2008 **Ph.D. of Computer Science** Department of Computer Science and Software Engineering Concordia University, Montreal, Quebec, www.concordia.ca
Thesis Title: Robust Digital Watermarking Techniques for Multimedia Protection. --- Nominated for “Best Dissertation Award”.
Thesis advisor: Professor: Prabir Bhattacharya and Professor A. Ben Hamza
- Sept. 2001 –Jun. 2003 **Master of Computer Science** Department of Computer Science, University of Jordan, Jordan www.ju.edu.jo
Course work Master
- Sept. 1996 –Jun. 2000 **Bachelor of Computer Science** Department of Computer Science, Yarmouk University, Jordan www.yu.edu.jo

WORK EXPERIENCE

- June 2020 **Full Professor**- Department of Computer Information System, Hashemite University, Jordan.
- Sept 2013 – Sept 2015 **Vice Dean** - Prince Al-hussein Bin Abdullah II Faculty for Information Technology, Hashemite University, Jordan.
- Oct.2014 – June 2020 **Associate Professor**- Department of Computer Information System, Hashemite University, Jordan.
- July 2009 – Oct. 2014 **Assistant Professor** - Department of Computer Information System, Hashemite University, Jordan.
- Sep. 2009 – Sep. 2010 **Chairman**, Software Engineering Department, Hashemite University, Jordan
- Feb. 2008 – June 2009 **Software Developer – SAP Labs, Montreal**
- Customer relationship management (CRM) development team.
 - Developing real-time customer insights system including social media.
 - Participating in developing a system to take advantage of in-memory analytics, predictive capabilities, mobile, and more.
 - System Analyst and developer of a social service system.
 - UI components
 - Technology: ABAP and JAVA
- Sept. 2004 – June. 2008 **Research Assistant**
- Multimedia Security lab, Concordia University, Montreal.
 - Investigating problems in multimedia watermarking and developing new watermarking schemes.
 - Designing and implementing MatLab simulation tools for 2D Images, 3D models, and MPEG Videos.
- Sept. 2004 – Jan. 2008 **Instructor/ Teaching Assistant**
Concordia University, Dept. of Computer Science and Software Engineering.
Preparing and conducting tutorials for the following courses:
- Data Structures and Algorithms
 - Fundamentals of C++ Programming
 - Programming Methodology (JAVA)
 - Theoretical Computer Science
 - Databases
 - Discrete Structures and Formal Languages
- July 2003 – Aug. 2004 **Lecturer**
Hashemite University, Dept. of Computer Science, Jordan
Taught the following courses:
- Data Structures and Algorithms
 - OOP 1 (C++) and OOP 2 (JAVA)
 - Discrete Mathematics.
- Sept. 2000 – Aug. 2001 **Laboratory Technician**
Yarmouk University, Dept. of Computer Science, Jordan.
- Hardware, software, and operating systems installations.
 - Assisted students and faculty members by providing hardware and software support in a laboratory settings.
 - Advised students on their programming problems.

ACADEMIC AWARDS AND HONORS

Sept. 2004 – Sept. 2007	Ministry of Education- Jordan, (Ranked second among all the candidates) Ph.D Full Scholarship.
Sept. 2006 – Aug. 2007	Concordia University- Canada, International Tuition Fee Remission Award three terms.
April 2008	Concordia University- Nominated for “Best Dissertation Award”.
Sept. 2005 – Aug. 2007	Concordia University- Teaching & Research Assistant Scholarship
Sept. 2001- June 2003	Ministry of Education -Jordan, M.Sc. Full Scholarship.
Sept. 2001- June 2003	University of Jordan- Teaching Assistant Scholarship.
May 1997 –Jan. 1998	Dean’s Honor list, Yarmouk University, Jordan.

LEADERSHIP ACTIVITIES

Sept 2017- August 2020	Chairperson of the IT College ABET accreditation Committee. COMPUTING ACCREDITATION COMMISSION Summary of Accreditation Actions 2019–2020 Accreditation Cycle The Hashemite University Zarqa, Jordan Computer Information Systems (B.Sc. in Computer Information Systems) Accredit to September 30, 2026.
Sept 2013 – Sep. 2015	Vice Dean of Prince Al-hussein Bin Abdullah II Faculty for Information Technology, Hashemite University.
Sep. 2009 – Sep. 2010	Chairperson, Software Engineering Department Hashemite University.
Sep. 2009 – Sept. 2012	Supervisor of the HU .Net Club.
Sep. 2008- Sep. 2009	Member of the Graduate Student Association (GSA), Concordia University, Montreal, Canada. <ul style="list-style-type: none"> • Attending the faculty executive meetings. • Co-organizing the GSA general assembly to vote/or strike. • Co-organizing the poster competition for the ENCS graduate students.
Sep. 2006 – May. 2009	VP of Engineering and Computer Science Graduate Association, Concordia University, Montreal, Canada. <ul style="list-style-type: none"> • Coordinate all ECSGA activities occurring with the engineering departments including the social and scientific activities. • Promote the educational, social, recreational and cultural interests of ECSGA members. • Attending the faculty executive committee. • Present an annual report of the ECSGA financial statement.
Jan. 2002 – Jan. 2003	Computer Science Department representative, University of Jordan <ul style="list-style-type: none"> • Attending the department executive meetings. • Coordinate several social and scientific activities. • Organizing a campaign against tuition increase.

PROFESSIONAL MEMBERSHIP, TECHNICAL COMMITTEES, PEER REVIEWER

- Judge at the FIRST LEGO League (FLL 2017) HYDRO DYNAMICS, Jubilee Center for Excellence in Education, Amman, Jordan. (2018)
- IEEE Member.
- Member and trainer of ACM Programming Contest, Jordanian Collegiate Programming. Part of the International Collegiate Programming Contest <http://icpc.baylor.edu/>
- Microsoft Academic Partner – The Hashemite University.
- Technical/Scientific committee and/or peer reviewer for the following conferences:
 - IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Amman, Jordan, 2011.
 - IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Amman, Jordan, 2012.
 - IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Amman, Jordan, 2013.
 - Organizing committee of the International Conference on Computer, Information, and Telecommunication Systems (CITS), Zarqa, Jordan, 2012.
 - Volunteer at ACM Graphics Interface Conference, Montreal, Canada, 2007.
 - Volunteer at the International Conference on Image Analysis and Recognition, Montreal, Canada, 2008.
- Regular Reviewer for the following journals:
 - Journal of Electronic Imaging.
 - International Journal of Pattern Recognition and Artificial Intelligence.
 - Journal of Systems and Software.
 - The International Arab Journal of Information Technology.
 - Journal of Pattern Recognition Research.
 - International Journal of Network Security.

CONFERENCES PRESENTATIONS, WORKSHOPS, AND SEMINARS

- The 18th International Conference on Pattern Recognition (ICPR 2006), Hong Kong, **Author**.
- The 33th ACM Graphics Interface conference (GI 2007), Montreal, Canada, **Author and Session Chair**.
- The 13th Workshop on Selected Areas in Cryptography (SAC 2006), Montreal, Canada, **Volunteer and Attendant**.
- The fourth International Conference on Image Analysis and Recognition (ICIAR 2007), Springer Lecture Note Series in Computer Science (LNCS), Montreal, Canada, **Author**.
- The International Conference on Signal Processing and Communications (ICSPC 2007), Dubai, UAE, **Author**.
- The fifth International Conference on Image Analysis and Recognition (ICIAR 2008), Springer Lecture Note Series in Computer Science (LNCS), Porto, Portugal, **Author**.
- The CIISE Information Systems Security Colloquium (2009), Montreal, Canada, **Volunteer and Attendant**.
- The 3rd International Conference on Communications, Computers and Applications (MIC-CCA 2009), Amman, Jordan - **Attendant**.
- Training Workshop on Writing Research Projects Proposals (2010), Hashemite University, Zarqa, Jordan, **Attendant**.
- The International Conference on Computer and Software Engineering (ICCSE 2012), Madrid, Spain, **Author and Session Chair**.
- The International Conference on Information Technology (ICIT 2012), Madrid, Spain, **Attendant**.

- The International Conference on Computer, Information, and Telecommunication Systems (CITS 2012), Zarqa, Jordan, **Organizing committee and Attendant.**
- The IEEE Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2012), Amman, Jordan, **Attendant.**
- The IEEE Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2013), Amman, Jordan, **Author.**
- Modernizing Undergraduate Renewable Energies Education –Academic Visit – Technische Universität Berlin, Germany, June (2014), **Attendant.**
- The International Conference on Web and Information Technologies on November (ICWIT 2014), Venice- Italy, Nov (2014), **Author.**
- The 11th International Conference on Future Networks and Communications (FNC 2016), Montreal-Canada, August 2016. **Author.**
- The 11th International Conference on Ambient Systems, Networks and Technologies (ANT), pp. 563- 570, Warsaw-Poland, April 2020. **Author.**
- IEEE Symposium Series on Computational Intelligence (SSCI) December 1-4, 2020 Canberra, Australia. **Reviewer.**

COMMITTES and SERVICES

Concordia University

- Member of the Graduate Student Association (GSA), Concordia University, Canada (2008-2009).
- Member of the Engineering and Computer Science Graduate Association (ECSGA) Concordia University, Canada (2006 -2009).

Hashemite University

- Chairperson of the IT College ABET accreditation Committee (2016-2020). Accredited to September 30, 2026.
- Member of the hiring and promotion committee at department. (2017-date)
- Committee Member, Council of the IT College as the chairperson of the Software Engineering Department (2009-2010-2011).
- Committee Member, Council of the IT College as the Vice Dean of the IT College (2013-2015).
- Member of the Graduation Projects Committee of the IT College (2010-2014).
- Chairperson of Examinations and Schedules Committee of the IT College (2009- 2011).
- Chairperson of the Curriculum Planning Committee of the CIS Department (2009-2013).
- Member of the Scientific Research, Conferences, Seminars, and Expositions Committee of the IT College (2010- 2012).
- Member of the Supervising Committee on Students Union's Elections of the IT College (2010-2012).
- Member of the Appointment and Promotion committee of the CIS Department (2010-date).
- Member of Social Committee of the IT College (2009- 2010).
- Chairperson of Scientific research Committee of the IT College (2013- date).
- Member of the Equalizing Courses Committee for Transferred Students of the CIS Department (2010-2012).
- Member of the Student's Affairs Committee of the IT College (2011-2012).
- Member of the Library Committee of the IT College (2010-2011).
- Chairperson of the IT College Website Committee (2009-2015).
- Member of Bachelor of IT Degree Plan committee (2012-2016).
- Member of the Appointment and Promotion committee of the IT College (2013 -2015).
- Member of the Students' Training Committee (2012-2015).

SERVED SUPERVISORY/EXAMINING COMMITTEES

Name	Arwa Saqer
Title	Improving the Availability Testing for Multi-Threaded Server Applications by Automation
Program	Master of Information Security and Digital Criminology – Prince Sumaya University for Technology. (Dec. 2014 Examiner)
Name	Basem Najem Al-obaigy
Title	Improving the Security of Caesar Cipher by Applying Multiple Public Keys
Program	Master of Computer Science – Yarmouk University (Dec. 2014 Examiner)
Name	Firas Ghaleb Al-Serhed
Title	Scheduling of Concurrent Transactions in Broadcasting Environment
Program	Master of Computer Science – Zarqa University (Jan. 2016 Examiner)
Name	Anas Kamel Al-Far
Title	Measuring CIA For Enterprise Application Based on Error Classification
Program	Master of Information Security and Digital Criminology – Prince Sumaya University for Technology. (June. 2016 Examiner)
Name	Safaa Fawzi Hraiz
Title	Btrfs Forensic Analysis
Program	Master of Information Security and Digital Criminology – Prince Sumaya University for Technology. (Nov. 2016 Examiner)
Name	Sarah Ahmad Odeh Abo-Suaileek
Title	Sentiment Analysis and Opinion Mining on Twitter Data for Arabic Language
Program	Master in Information Systems and Innovation – Hashemite University. (Dec. 2016 Supervisor)
Name	Alaa Ali Ismail Al-Nusirat
Title	Machine Learning Roles in System Improvement
Program	Master in Information Systems and Innovation – Hashemite University. (April 2017 Examiner)
Name	Jameel Ratib Alzghoul
Title	Deception Detection in Open Mining Text
Program	Master in Computer Science – Al-Balqa Applied University. (May 2017 Examiner)
Name	Hadeel Ziad Ahmed Al-awaisheh
Title	Analytical Profile Index Interpreter 10S by Applying Image Processing Techniques
Program	Master in Computer Science – Al-Balqa Applied University. (Feb 2018 Examiner)
Name	Khairi Blaou
Title	Towards Developing an Efficient EEG Classification Model Based on DWT
Program	Master of Computer Science – Zarqa University (March. 2018 Examiner)
Name	Noor Ahmed Alhusan
Title	A Graphical Decision Support System for the Diagnosis of Primary Headache via Machine Learning
Program	Master in Information Systems and Innovation – Hashemite University (October 2018 Examiner)
Name	Abeer Al Batayneh
Title	A Scoring System for Information Security Governance Framework using Deep Learning Algorithms A Case Study on the Banking Sector
Program	Master of Science in Information Systems Security and Digital Criminology– Prince Sumaya University for Technology. (November. 2018 Examiner)
Name	Ala'a Tawfiq Shamlawi
Title	Remnant Data Analysis on Disks Offered for Donation: A Jordan Case Study 2018

Program	Master of Science in Information Systems Security and Digital Criminology– Prince Sumaya University for Technology. (December. 2018 Examiner)
Name Title Program	Mohammad Al-mamoun Saleh Al-husban Swarm Robotics and Rescue: A New Approach Master of Computer Science – Zarqa University (January. 2019 Examiner)
Name Title Program	Ruba Mohammad Haj Hamad A Scalable Quality and Testing Platform for Critical Applications in the Cloud (SQTL) Master of Science in Enterprise System Engineering – Prince Sumaya University for Technology (July. 2019 Examiner)
Name Title Program	Yousef Ahmad Mashal Automatic Detection and Identification of Minerals with Minor Difference in Birefringence using Machine learning Algorithms Master of Applied Geology – Hashemite University (Feb. 2020 Examiner)
Name Title Program	Aya Nayef Al-Jaradat Improving Keystroke Dynamics for User Authentication Master of Science in Information Systems Security and Digital Criminology. Prince Sumaya University for Technology. (May. 2020 Examiner)
Name Title Program	Bashar Husam Alshouha A Deep Learning-based model for Prediction of the Survival of Breast Cancer Patients Master of Computer Information Systems, Faculty of Information Technology, YARMOUK UNIVERSITY. (May. 2020 Examiner)

APPRECIATION LETTERS

- From Dr. Feras Hanandeh, Dean of Faculty of Prince Al Hussein Bin Abdullah II Hashemite University for cooperation and hard work preparing the readiness review for CIS department seeking ABET accreditation, 2017-2018.
- From Dr. Ahmad Al-khasawneh, Dean of Faculty of Prince Al Hussein Bin Abdullah II Hashemite University for cooperation and hard work, 2011, 2012, and 2013.
- From Hashemite University president for the efforts that leads to a great success of the students Council elections of the Hashemite University 2010.
- From director of eLearning Center - Certificates of Appreciation of eLearning workshop 2011.
- From Hashemite University vice president Certificates of Appreciation for my effort and hard work organizing the Graduation Project exhibition 2009.
- From Dr. Ahmad Al-khasawneh, Dean of Faculty of Prince Al Hussein Bin Abdullah II Hashemite University for my excellence in teaching.
- From Hashemite University president for my supervision on a unique graduation project that uses the latest technology to design and develop 3D game “Learn how save valuable resources” to encourage citizens to reduce their use of natural resources 2011.
- From Dr. Ahmad Al-khasawneh, Dean of Faculty of Prince Al Hussein Bin Abdullah II Hashemite University for my supervision on graduation project “Detecting email forgery using random forests and naïve bayes classifiers” that got accepted for publication on the International Conference on Computer and Software Engineering (ICCSE). Spain – Madrid, 2012.
- From Dr. Ahmad Al-khasawneh, Dean of Faculty of Prince Al Hussein Bin Abdullah II Hashemite University for cooperation and hard work as a vice dean, 2013-2014.

TECHNICAL SKILLS and TECHNOLOGIES

Java, ABAP, SQL, C/C++, PVM, Matlab (Wavelet and other toolboxes), UML and design pattern, Visual Basic, HTML, OpenGL, JBuilder, Eclipse, Rational Rose, MS Visual Studio.

FUNDING

- 35,000.00 JD Co-applicants. Alaa E. Abdallah, Dr. Emad E. Abdallah, Dr. Mohammad Bsoul, and Dr. Ahmad Khasawneh, Deanship of scientific Research fund- Hashemite University - (Sept. 2013 ~ Sept. 2015) Topic: **Enhanced Ant Colony Routing Algorithms for Mobile Ad-Hoc Networks.**
- 6,880 JD Co-applicants Dr. Emad E. Abdallah, Dr. Mohammad Bsoul, and Dr. Ahmad Khasawneh, Deanship of scientific Research - Hashemite University - new researchers' start-up program (Sept. 2010 ~ Mar. 2012) - Topic: **3-D Mesh Fingerprinting - Develop and evaluate an identification and authentication system for 3-D polygonal models.**
- 80,000 JD Co-Applicants Dr. Ahmad Khasawneh, Dr. Emad E. Abdallah, Dr. Ibrahim Obeidat, and Dr. Feras Hanandeh, Deanship of scientific Research - Hashemite University - start-up program (Dec. 2010 ~ Dec. 2012) - Topic: **The use and transfer platform of research content in teaching, learning and e-Learning in Higher Education; Effectiveness of Building an Incubator for Hashemite University Academician Usage.**
- 1,000,000 € Co-applicants, Hashemite University (Local Partner: Dr. Ahmad Al-khasawneh and Dr. Emad E. Abdallah), Princess Sumaya University for Technology, Technical University of Berlin, National University for Distance Learning, Naim Energy Technologies.(Oct. 2012 ~ 14 Oct. 2015)Topic: **"Modernizing Undergraduate Renewable Energy Education: EU Experience for Jordan"** TEMPUS project number 530332-TEMPUS-1-2012-1-JO-TEMPUS-JPCR, approved by the European Commission under grant agreement number 2012-3324/001-001.
- 800,000 € Co-applicants, Hashemite University (Local Partner: Dr. Emad E. Abdallah and Dr. Ahmad Al-khasawneh), Princess Sumaya University for Technology, American University of Madaba, University of Petra. (Dec. 2013 ~ Dec. 2016)Topic: **"Towards a university Enterprise alliance in Jordan TEJ Project"** TEMPUS project number 544259-TEMPUS, approved by the European Commission under grant agreement number 2012-3324/001-001.

PUBLICATIONS:

Books

[1] **Emad E. Abdallah**, "**Robust Digital Watermarking Techniques for Multimedia Protection**", LAP Lambert Academic Publishing, July 2012. ISBN: 978-3659178009.

Journal Publications (refereed):

- [2] **Emad E. Abdallah**, A. Ben Hamza, P. Bhattacharya, "**Improved image watermarking scheme using fast Hadamard and discrete wavelet transforms**," *Journal of Electronic Imaging*, vol. 16, no. 3, pp. 033020.1-033020.9, July 2007.
- [3] **Emad E. Abdallah**, A. Ben Hamza, P. Bhattacharya, "**Watermarking 3D models using spectral mesh compression**," *Signal, Image and Video Processing, Springer Journal*, Vol. 3, no. 4, pp. 375-389, 2009.
- [4] **Emad E. Abdallah**, A. Ben Hamza, P. Bhattacharya, "**Video watermarking using wavelet transform and tensor algebra**," *Signal, Image and Video Processing, Springer Journal*, vol. 4, no. 2, pp. 233-245, June 2010.
- [5] Mohammad Bsoul, Ahmad Al-Khasawneh, **Emad E. Abdallah**, Yousef Kilani, "**Enhanced fast spread replication strategy for data grid**," *Journal of Network and Computer Applications*, vol. 34, no. 2, pp. 575-580, March 2011.
- [6] Feras Hanandeh, **Emad E. Abdallah**, Sahar Idwan and Izzat Alsmadi, "**Checking the efficiency of integrity tests in distributed and parallel database**," *International Journal of Business Information Systems*, vol. 11, no. 2, pp. 233-245, 2012.
- [7] Alaa E. Abdallah, M. Bsoul, **Emad E. Abdallah**, Ahmad Al-Khasawneh, and Muath Alzghool, "**Local algorithm for establishing a virtual backbone in 3d ad hoc network**," *International Journal of Computer and Information Engineering*, Vol. 6, pp. 18-22, 2012.
- [8] Feras Hanandeh, **Emad E. Abdallah**, Alaa Eddien Abdallah, and Essam Al-Daoud, "**Simplified approach for generating integrity tests in distributed database systems**," *International Journal of Innovation and Learning*, vol.13, no. 4, pp. 375-387, 2013.
- [9] M. Bsoul, A. Al-Khasawneh, A. E. Abdallah, **Emad E. Abdallah**, and I. Obeidat, "**An energy-efficient threshold-based clustering protocol for wireless sensor networks**," *Journal of Wireless Personal Communications*, vol. 70, no. 1, pp. 99-112, 2013.
- [10] Essam Al-Daoud, Feras Al-Hanandeh, **Emad E. Abdallah**, and Alaa E. Abdallah, "**Texture recognition by using a non-linear kernel**," *International Journal of Computer Applications in Technology*, vol.48, no. 3, pp. 235- 240, 2013.
- [11] **Emad E. Abdallah**, Alaa E. Abdallah, Ahmad Al-Khasawneh, Mohammad Bsoul and Ayoub Alsarhan, "**Secure local algorithm for establishing a virtual backbone in 3D ad hoc network**," *International Journal of Networking and Virtual Organizations*, vol. 12, no. 1, pp.70- 83, 2013.
- [12] Ayoub Alsarhan, **Emad E. Abdallah**, Ibrahim Al-Oqily, and Alaa Eddien Abdallah, "**An Economic Model for Resource Adaptation in 2D Mesh Multicomputer Networks**," *International Journal of Computers and Their Application*, vol. 20, no. 1, pp.46- 54, 2013.
- [13] **Emad E. Abdallah**, Alaa E. Abdallah, Mohammad Bsoul, Ahmed F. Otoom, Essam Al- Daoud, "**Simplified features for email authorship identification**," *International Journal of Security and networks*, vol. 8, no. 2, pp. 72-81, 2013.

- [14] **Emad E. Abdallah**, Ibrahim Al-Oqily, Alaa E. Abdallah, Ahmed F. Otoom, Ayoub Alsarhan, **“Spectral Graph and Minimal Spanning Tree for 3D Polygonal Meshes Fingerprinting,”** *International Journal of Information Technology and Web Engineering*, Vol. 9, No. 4, pp. 41-54, 2014.
- [15] Nedal Tahat, **Emad E. Abdallah**, **“A New signing algorithm based on elliptic curve discrete logarithms and quadratic residue problems,”** *Italian Journal of Pure and Applied Mathematics*, Vol.32, pp. 125-132, 2014.
- [16] Ahmed Fawzi Otoom, **Emad E. Abdullah**, Maen Hammad, Mohammad Bsoul, Alaa E. Abdallah, **“An Intelligent System for Author Attribution Based on a Hybrid Feature Set,”** *International Journal of Advanced Intelligence Paradigms*, Vol. 6, No 4, pp. 228-245,2014.
- [17] Alaa E. Abdallah, Mohammad Bsoul, **Emad E. Abdallah**, Ibrahim Al-Oqily, George Kao, **“Cluster-Based Online Routing Protocols for Ad Hoc Network,”** *International Journal of Information Technology and Web Engineering*, Vol. 9, No. 4, pp. 55-67, 2014.
- [18] Alaa E. Abdallah, **Emad E. Abdallah**, Mohammad Bsoul, Ahmad Al-Khasawneh and Lina Amer, **“A Blind 3D Watermarking Technique Using Spherical Coordinates and Skewness Measure.”** *International Journal of Security and networks*, Vol.10, No. 1, pp. 1-8, 2015.
- [19] Ahmed Fawzi Otoom, **Emad E. Abdallah**, Yousef Kilani, Ahmed Kefaye and Mohammad Ashour, **“Effective Diagnosis and Monitoring of Heart Disease,”** *International Journal of Software Engineering and Its Applications*, Vol. 9, No. 1, pp. 143-156, 2015.
- [20] Mohammad Bsoul, Yousef Kilani, Maen Hammad, **Emad E. Abdallah**, and Ayoub Alsarhan, **“An Index-Based Approach for Wireless Sensor Networks,”** *Journal of Wireless Personal Communications*, Vol. 82, No. 4, pp. 2185-2197, 2015.
- [21] Ahmed F. Otoom, **Emad E. Abdallah**, Maen Hammad, **“Breast Cancer Classification Comparative Performance Analysis of Image Shape-Based Features and Microarray Gene Expression Data,”** *International Journal of Bio-Science and Bio-Technology*, Vol. 7, No2, pp. 37- 46, 2015.
- [22] Alaa E. abdallah, **Emad E. Abdallah**, Feras Hanandeh, Ashraf Aljamal, Essam Al-Daoud **“Power Aware Ant Colony Routing Algorithm for Mobile Ad-hoc Networks,”** *International Journal of Software Engineering and its Applications*, Vol. 9, No, 12, pp. 197-212, 2015.
- [23] Nedal Tahat, **Emad E. Abdallah**, **“A Proxy Partially Blind Signature Approach Using Elliptic Curve Cryptosystem,”** *International Journal of Mathematics in Operational Research*, Vol. 8, No1, pp. 87-95, 2016.
- [24] Alaa Eddien Abdallah, **Emad E. Abdallah**, Mohammad Bsoul and Ahmed Otoom, **“Randomized Geographic-based Routing with Nearly Guaranteed Delivery for 3D Ad Hoc Network,”** *International Journal of Distributed Sensor Networks*, Vol. 12, No. 10, 2016.
- [25] Jamal Al-Nabulsi, Jumana Ma'touq, **Emad E. Abdallah**, Tarek Haloubi, Ali Manasra, **“Blind Users Assistive Technology Based on the Android Platform,”** *International Journal of Innovative Computing and Applications (IJICA)*, Vol.8, No.3, pp.162–171, 2017.
- [26] Ayoub Alsarhan, **Emad E. Abdallah**, Ashraf Aljammal, **“Competitive Processors Allocation in 2D Mesh Connected Multicomputer Networks a Dynamic Game Approach,”** *International Journal of Grid and High Performance Computing*, Vol.9, No.2, pp.53-69, 2017.
- [27] Nedal Tahat, **Emad E. Abdallah**, **“Hybrid Publicly Verifiable Authenticated Encryption Scheme based on Chaotic Maps and Factoring Problems,”** *Journal of Applied Security Research*, Vol. 13, No. 3, pp. 304-3014, (July, 2018).
- [28] Ahmed Fawzi Otoom, Doaa Al-Shdaifat, Maen Hammad, Emad E. Abdallah and Ashraf Aljammal, **“Automated labelling and severity prediction of software bug reports,”** *International Journal of Computational Science and Engineering*, Vol.19 No.3, pp.334 – 342, 2019.

- [29] **Emad E. Abdallah**, Sarah A. Abo-Suaileek, "**Feature-based Sentiment Analysis for Slang Arabic Text,**" *International Journal of Advanced Computer Science and Applications (IJACSA)*, Vol. 10, No. 4, pp. 298-304, 2019.
- [30] Nedal Tahat, Rania Shaqboua, **Emad E. Abdallah**, Mohammad Bsoul, Wasfi Shatanawi, "**A new digital signature scheme with message recovery using hybrid problems,**" *International Journal of Electrical and Computer Engineering (IJECE)*, Vol. 9, No. 5, pp. 3576-3583, 2019.
- [31] Yasser Qawasmeh, Sari Awwad, Ahmed Otoom, Feras Hanandeh, **Emad E. Abdallah**, "**Local Patterns for Offline Arabic Handwritten Recognition,**" *International Journal of Advanced Intelligence Paradigms*, Vol. 16, No. 2, pp. 203-215, 2020.
- [32] **Emad E. Abdallah**, Ahmed Otoom, Alaa E. Abdallah, Mohammad Bsoul, Sari Awwad, "**A hybrid Secure Watermarking Scheme Using Nonnegative Matrix Factorization and Fast Walsh-Hadamard Transform,**" *Journal of Applied Security Research*, Vol. 15, No. 2, pp. 185-198, 2020.
- [33] Alaa E. Abdallah, Ebaa Fayyumi, **Emad E. Abdallah**, Ahmad Qawasmeh, Islam Almalkawi, "**Spherical based routing protocols for three-dimensional MANET**", *International Journal of Computing Science and Mathematics*, accepted for publication.
- [34] Jamil R. Alzghoul, Muath Alzghool, **Emad E. Abdallah**, "**A New Approach for Deception Detection in Open Domain Text,**" *International Journal of Business Analytics*, Vol. 8, No. 4, pp. ****-***, 2021.
- [35] Islam T. Almalkawi, Jafar Raed, Ayoub Alsarhan, Alaa E. Abdallah, Emad E. Abdallah, "**A Novel and Efficient Priority-based Cross-layer Contextual Unobservability Scheme against Global Attacks for WMSNs,**" *International Journal of Interactive Mobile Technologies*, accepted for publication.

Conference Publications (refereed):

- [1] **Emad E. Abdallah**, A. Ben Hamza, P. Bhattacharya, "**A robust block-based image watermarking scheme using fast Hadamard transform and singular value decomposition,**" *Proc. International Conference on Pattern Recognition (ICPR)*, pp. 673-676, Hong Kong, 2006.
- [2] **Emad E. Abdallah**, A. Ben Hamza, P. Bhattacharya, "**Spectral graph-theoretic approach to 3D mesh watermarking,**" *Proc. ACM Graphics Interface Conference (GI)*, pp. 327-334, Montreal, Canada, 2007.
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