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| Dr. Osama Dorgham |

Sharjah | United Arab Emirates.  | +971 50 96 75 85 9  | [Google Scholar](https://scholar.google.com/citations?user=n5yuBjcAAAAJ&hl=en) |  [LinkedIn](https://www.linkedin.com/in/osama-dorgham-bb957259/) | [o.dorgham@bau.edu.jo](mailto:o.dorgham@bau.edu.jo) | [osama.dorgham@gmail.com](mailto:osama.dorgham@gmail.com)

# Profile

With a deep-rooted commitment to research and education in computing sciences, I have built a career that bridges both domains. My Ph.D. from the University of East Anglia, UK, has paved the way for my contributions in areas like artificial intelligence, image processing, computer security, and graphics. My leadership roles, notably as the head of Computer Information Systems at Al-Balqa Applied University, Jordan, and my current position at Skyline University, UAE, underscore my dedication to academic excellence. Honored with Erasmus grants and international awards, I've also been instrumental in shaping curricula that equip students with both theoretical knowledge and hands-on skills. As an active member of global tech organizations such as IET, SPIE, BMVA, and JCS, I'm always open to collaborations and discussions that push the boundaries of the field.

# Education

* **Ph.D. Computer Science | 2011.**

[**University of East Anglia**](https://www.uea.ac.uk/)**, Norwich, United Kingdom.**

[University Times World Ranking](https://www.timeshighereducation.com/world-university-rankings/university-east-anglia): 182

[Shanghai Institutional Ranking](https://www.universityrankings.ch/institutions/id5267-university_of_east_anglia-united_kingdom): 201-300

* **MSc. Computer Science | 2005.**

[**Al-Balqa Applied University**](https://www.bau.edu.jo/)**, Al Salt, Jordan.**

[University Times World Ranking](https://www.timeshighereducation.com/world-university-rankings/al-balqa-applied-university): 601-800

* **BSc. Computer Science | 2003.**

[**Princess Sumaya University for Technology**](https://www.psut.edu.jo/)**, Amman, Jordan.**

[University QS World Ranking](https://www.topuniversities.com/universities/princess-sumaya-university-technology#wurs): 601-650

# Academic Experience

## Skyline University | 2023 – Present

School of Computing, Skyline University, Sharjah, United Arab Emirates

## Al-Balqa Applied University | 2011 – 2023

Department of Computer Science, Prince Abdullah Bin Ghazi Faculty of Information Technology, Al-Balqa Applied University, Al Salt, Jordan.

## University of Santiago De Compostela | Postdoctoral Researcher | 2014 – 2015

Centro Singular de Investigación en Tecnoloxías da Información, University of Santiago De Compostela, Santiago De Compostela, Spain.

## Al-Baha University | 2013-2014

## Dept. of Management Information Systems, Faculty of Management, Al-Baha University, Al Baha, Saudi Arabia.

**Managerial Experience**

* 2015 – 2018: **Head of Computer Information Systems Department**, Prince Abdullah Bin Ghazi Faculty of Information Technology, Al-Balqa Applied University, Al Salt, Jordan.
  + Responsibilities including:
    - Overseeing the development and implementation of the department's strategy, policies, and procedures.
    - Managing the department's budget, staffing, and resources.
    - Ensuring the department's systems, hardware, software, and networks are running efficiently and effectively.
    - Providing leadership and guidance to the department's staff.
    - Collaborating with other departments and stakeholders to support the organization's goals and objectives.
    - Keeping up-to-date with the latest technological developments and trends.
    - Identifying opportunities for improving the department's operations and services.
    - Fostering Industry Connections: Actively engage with local and regional industry partners to establish and maintain strong relationships.
    - Organize and participate Industry Networking Events in events like job fairs, tech conferences, and industry meetups.
* 2023: **Chair of Skyline Innovation and Entrepreneurship Center (SIEC),** Skyline University, Sharjah, United Arab Emirates.
  + Responsibilities including:
    - Leading the development and implementation of the Center's strategy, policies, and procedures.
    - Building relationships with entrepreneurs, investors, and other stakeholders in the innovation and entrepreneurship ecosystem.
    - Providing leadership and guidance to the Center's staff and participants.
    - Creating and delivering programs, events, and resources that support entrepreneurship and innovation.
    - Promoting the Center's activities and outcomes to relevant audiences, including the media and potential sponsors.
    - Developing partnerships with other organizations and institutions to support the Center's mission and goals.
    - Identifying and pursuing opportunities for generating revenue and funding for the Center.

**University Courses Taught**

Throughout my academic career, I have been dedicated to empowering students with a comprehensive understanding of Computer Science. My experience covers a broad spectrum of courses, ranging from introductory to advanced ones such as:

* Big Data and in-Memory Computing (MSc.)- Princess Sumaya University for Technology
* Artificial Intelligence
* E-commerce
* Cloud Computing
* Image Processing (MSc.)
* Special Topics in Computer Information Systems (Machine Learning, Big Data, Cloud Computing, Internet of Things).
* Big Data Management (MSc.)- Faculty of Engineering/ Geomatics
* Data Structures
* Fundamentals of Information Security
* Fundamentals of Web Systems
* Object Oriented Programming
* Algorithms
* Image Processing (BSc.)
* Parallel Processing (CPU and GPU)
* Multimedia
* Computer Graphics
* System Analysis and Design
* Introduction to Computer Programming
* Geographic Information Systems
* Programming Languages (i.e. C++, Java, C#, etc.)
* Digital Logic

**External Collaboration: Erasmus+**

**Erasmus+** is a European Union program aimed at supporting education, training, youth, and sport in Europe. It provides opportunities for over 4 million Europeans to study, train, and gain experience abroad. It plays a vital role in creating a more connected and educated world.

As an experienced academic professional, my Erasmus+ journey started with a postdoctoral fellowship at the Universidad de Santiago de Compostela in Spain, under the Erasmus Mundus Lot 2 Project, Peace I. I subsequently received two researcher grants at the same university, partook in a mobility program in Barcelona, and honed project management skills at HTWK Leipzig in Germany. Further, I engaged in staff training programs in Portugal and the UK, culminating most recently with my participation in the ELEGANT project in Croatia. Each experience has significantly enriched my academic prowess, teaching methodologies, and project management skills. This venture, dedicated to promoting learning via the generation and application of novel technologies, was generously supported by the European Union through a €60,000 Capacity Building grant for the duration of 2020-2023.

• Mobility, ELEGANT (Erasmus +, project ref. no. 610265-EPP-1-2019-1-HR-EPPKA2-CBHE-JP), https://www.elegant-project.eu/project, University of Dubrovnik, Dubrovnik, Croatia, September 2022.

• Funded Project with Euro 60,000, ELEGANT (Erasmus +, project ref. no. 610265-EPP-1-2019-1-HR-EPPKA2-CBHE-JP) https://www.elegant-project.eu/project, Erasmus +, Capacity Building, Euro 60,000, European Union, 2020-2023.

• Erasmus+ Staff Training Mobility, Key Action 1, School of Computing Sciences, Universidade do Minho, Braga, Portugal, June 2019.

• Staff Training in Engineering, Key Action 1, UKSTAFORD02, 2017-1-UK01-KA107-036258, Erasmus+, Staffordshire University, Stock-on-Trent, UK, August 2019.

• VTC Erasmus+ project management and training workshop at HTWK Leipzig, project activities: project management and planning, training activities, small enterprise promotion and training. Project No. 561708-EPP-1-2015-1-DE-EPPKA2-CBHE-JP and FOODQA Project No. 574010-EPP-1-2016-1-JO-EPPKA-CBHE-JP, Hochschule für Technik Wirtschaft und Kultur, Leipzig, Germany, September, 2018.

• Mobility for Training, VTC Erasmus+ project training workshop at HTWK Leipzig, project activities: handle study visit, training activities, small enterprise promotion and training, project management and planning. Project No. 561708-EPP-1-2015-1-DE-EPPKA2-CBHE-JP, Hochschule für Technik Wirtschaft und Kultur, Leipzig, Germany, March 2018.

• Mobility for learners and staff, Higher Education Student and Staff Mobility, Key Action 1, Erasmus Plus. Escola Superior de Disseny i d'Arts Plàstiques, Barcelona, Spain, November, 2017.

• Teaching Staff/Researcher Grant for 1 months at Universidad de Santiago de Compostela, funded by Erasmus Mundus Lot 2 Project, Peace II, 2012-2618/001-001-EMA2, Universidad de Santiago de Compostela, Santiago de Compostela, Spain, May 2017.

• Teaching Staff/Researcher Grant for 1 months at Universidad de Santiago de Compostela, funded by Erasmus Mundus Lot 2 Project, Peace II, 2012-2618/001-001-EMA2, Universidad de Santiago de Compostela, Santiago de Compostela, Spain, August 2016.

• Postdoctoral Grant for 6 months in Universidad de Santiago de Compostela, funded by Erasmus Mundus Lot 2 Project, Peace I, 2012-2618/001-001-EMA2, Universidad de Santiago de Compostela, Santiago de Compostela, Spain, August 2014.

**Master Students Supervision**

Next, I will share my experiences as a supervisor for master's students in Computer Science. This role has allowed me to help students develop their research skills and contribute to the field with valuable dissertations. I am proud to have played a part in guiding these talented individuals towards academic success and their future careers.

* Amnah Madaat, **“Prediction of Cyber Attacks on the Cloud Computing Services for Big Data Applications”**. Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 2023.
* Shaima Washah, **“Land Price Prediction Using Machine Learning Algorithms: A case study on Al-Abdali, Amman, Jordan”.** Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 2022.
* Mosab Khader, “**Digital Image Segmentation Using Monarch Butterfly Algorithm**”. Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 2019.
* Ghayda Abbadi, “**Automatic Detection and Classification for Plant Diseases using Digital Image Processing**”. Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 2019.
* Mohammad Abu Naser, “**Accelerated Generation of Digitally Reconstructed Radiograph Images Using Automatic Body Segmentation**”. Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 2018.
* Sanad Abu Raas," **Proposed System for Analyzing Real Time Human Motion in Surveillance Video for Elderly Fall Detection**". Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, Al-Salt, Jordan, 2016.
* Ibraheem Muherat,"**Modeling Nurve Signals for Forearm Human Muscles** ". Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al- Balqa Applied University, 19117, Al-Salt, Jordan, 2016.

**Honors, Academics Awards and awarded Projects**

In the following section, I am proud to share some of the awards, honors, and grants I have received in the field of Computer Science. These recognitions highlight my commitment to learning, innovation, and teaching. They represent both my personal dedication and the impact of the various projects I have been a part of, all aiming to advance understanding and progress in technology.

* Funded Project with Euro 60,000, ELEGANT (Erasmus +, project ref. no. 610265-EPP-1-2019-1-HR-EPPKA2-CBHE-JP) https://www.elegant-project.eu/project, Erasmus +, Capacity Building, Euro 60,000, European Union, 2020-2023.
* Automatic Body Segmentation for Computed Tomography Images using Deep Learning, Al-Balqa Applied University, Jordan, May, 2019.
* Teaching Staff/Researcher Grant for 1 months at Universidad de Santiago de Compostela, funded by Erasmus Mundus Lot 2 Project, Peace II, 2012-2618/001-001-EMA2, Universidad de Santiago de Compostela, Santiago de Compostela, Spain, May 2017.
* Outstanding Researcher Award, Dean of Scientific Research, Al-Balqa Applied University, Al-Salt, Jordan, August, 2017.
* Teaching Staff/Researcher Grant for 1 months at Universidad de Santiago de Compostela, funded by Erasmus Mundus Lot 2 Project, Peace II, 2012-2618/001-001-EMA2, Universidad de Santiago de Compostela, Santiago de Compostela, Spain, May 2016.
* No.1 from “Who Is Publishing In My Domain”,for this paper: Dorgham OM, Laycock SD, Fisher MH: GPU accelerated generation of digitally reconstructed radiographs for 2D/3D image registration. IEEE Trans Biomed Eng; 2012 Sep;59(9):2594603 PMID: 22801484, BioMedLib, LLC, 2150 Wise Street, USA, July,2015.
* Postdoctoral Grant for 6 months in Universidad de Santiago de Compostela, funded by Erasmus Mundus Lot 2 Project, Peace I, 2012-2618/001-001-EMA2, Universidad de Santiago de Compostela, Santiago de Compostela, Spain, August 2014.
* 1st prize, “Present Around The World (PATW)”, Institution of Engineering and Technology (IET), UK, March 2009.
* Best Presentation, CMP Postgraduate Research Day, University of East Anglia, Norwich, UK, October 2009.
* A bursary from The British Machine Vision Association (BMVA) to attend an international conference, CARS 2010, Geneva, British Machine Vision Association, UK, 2010.
* PhD Scholarship, Al-Balqa Applied University, Jordan, 2007.

**Master Thesis Defense Committee Membership**

* Yasmeen Al-Dabbas, “**Feature Selection Problem Based on Black Widow Optimization Algorithm**“, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 18/8/2021. [Supervisor: Prof. Saleh Oquli].
* Amal Bloot, “**Developing a Hybrid Deep Learning Technique to Create a Natural Language Interface to Databases**”, Data Science Department. Princess Summaya University for Technology, Amman, Jordan. 13/6/2021. [Supervisor Dr. Sara Tedmori].
* Enas Ramadan, "**Water Evaporation Algorithm with Probabilistic Neural Network for Solving Classification Problems**", Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 18/4/2019. [Supervisor: Dr. Moh Alweshah].
* Qusai Nsoor, “**Formal Specification Method for Prometheus Methodology**”, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, defense date: 27/12/2017. [Supervisor: Dr. Abed Alsalam Arabiat].
* Moh Jamal Al Saaydeh, “**Enhancement of Queuing Algorithm for Improving Network Performance**”, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 27/11/2017. [Supervisor: Dr. Omar AlZubi].
* Maria Al-Sanadeh, “**Hybrid Water Cycle Algorithm with Neural Network to Solve Classification Problems**”, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 20/9/2017. [Supervisor: Dr. Moh Alweshah].
* Ibraheem Muherat,"**Modeling Nurve Signals for Forearm Human Muscles** ", Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 2016. [Supervisor Dr. Osama Dorgham].
* Sanad Abu Raas," **Proposed System for Analyzing Real Time Human Motion in Surveillance Video for Elderly Fall Detection**". Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 22/4/2016. [Supervisor Dr. Osama Dorgham].
* Mutaz Al-Freahat, “**Heuristic Approach for Enhancing Digital Image Quality**”, Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 29/12/2015. [Supervisor Dr. Moh Hjooj].
* Fatima Al-Yasjeen, “**Texure Mapping Algorithm for Computer Graphiocs Applications**”, Master thesis, Computer Science Department. Prince Abdullah Ben Ghazi Faculty of Information Technology, Al-Balqa Applied University, 19117, Al-Salt, Jordan, 2/4/2015. [Supervisor Dr. Nijad Najdawi]

**Curriculum and Course Development**

In this section, you will find my contributions to curriculum and course development. My efforts are not only focused on creating innovative and relevant coursework that prepares students for the ever-evolving field of Computer Science but also on developing course curriculum in line with accreditation and international standards. This includes designing curriculums that blend theoretical knowledge with practical skills, and updating courses to keep up with the latest developments in technology.

* **Curriculum Development** for the School of Computing (year 2022/2023), Skyline University, proposed **bachelor’s degree** study plan in **Computer Science/Artificial Intelligence**.
* **Curriculum Development** for the Computer Information Systems (CIS) department (year 2017/2018), Prince Abdullah Bin Ghazi Faculty of Information Technology, Al-Balqa Applied University: proposed **bachelor’s degree** study plan in **Virtual Reality and Augmented Systems**.
* **Curriculum Development** for the Management Information Systems (MIS) department (year 2017/2018), Management Faculty, Al-Balqa Applied University: proposed a new **bachelor’s degree** study plan in **Geographical Information Systems**.
* **Curriculum Development** for the Management Information Systems (MIS) department (year 2017/2018), Management Faculty, Al-Balqa Applied University: proposed a new **bachelor’s degree** study plan in **Health Information Systems**.
* **Curriculum Development** for the Computer Information Systems (CIS) department (year 2015/2016), Prince Abdullah Bin Ghazi Faculty of Information Technology, Al-Balqa Applied University: proposed a new **master’s degree** study plan in Computer Information Systems with focus on **big data processing**.
* **Curriculum Development** for the Computer Science department (year 2015/2016), Prince Abdullah Bin Ghazi Faculty of Information Technology, Al-Balqa Applied University: proposed a new **bachelor’s degree** study plan in **Computer Graphics and Game Programming**.
* **Curriculum Development** for the Computer Information Systems (CIS) department (year 2016), Prince Abdullah Bin Ghazi Faculty of Information Technology, Al-Balqa Applied University: proposed a new **bachelor’s degree** study plan in **Web Technologies and Engineering**.
* **Curriculum Development** for the Computer Information Systems (CIS) department (year 2016): proposed a new **bachelor’s degree** study plan in **Computer Information Systems**.
* **Designed the “Data Structures**” **lab** for the Computer Science department (year 2015/2016), Prince Abdullah Bin Ghazi Faculty of Information Technology, Al-Balqa Applied University.
* **Designed the “Object Oriented” lab** for the Computer Science department (year 2015/2016), Prince Abdullah Bin Ghazi Faculty of Information Technology, Al-Balqa Applied University.

**University and community service activities**

In this section I will share my engagement in university and community service activities. I've devoted time to enriching our academic community and serving the wider public through participation in university committees, event organization, and volunteer work. My goal is to contribute positively to the community by sharing my expertise and promoting a supportive environment.

* **Member** of Al-Balqa Applied **University Council** for the academic year 2019/2020
* **Leader** of a committee to reformulate the technical specifications required for the supply, installation, operation and maintenance of **graphic and digital design laboratories** for the need of Salt College, funded by the European Union 2016
* **Leader** of the committee to receive the bid to **purchase annual licenses** for the use of GIS software for the year 2017
* **Leader** of a committee regarding the tender committee’s decision that includes obligating the **purchase of 46 computers** funded by the European Union 2017
* **Member** of a committee to review the study plan to introduce the specialization of **geographic information systems** in the College of Business 2017
* **Member** of a committee to **describe** the subject of computer skills and to **re-describe** the subject of computer skills (1) 2018
* **Member** of the Prince Abdullah bin Ghazi College of Information Technology **Council** 2017/2018
* **Member** of the **Study Plan Committee** and Academic Schedule at Prince Abdullah bin Ghazi College for Information Technology 2016
* **Member** of a committee to **develop the college’s implementation** plan based on the university’s 2017 strategic plan
* **Member** of the Academic **Advising Committee** at BAU 2017
* Participation in the **training program** in the field of **e-learning and hybrid education**, in cooperation with the French National Institute of Science and Technology 2019.
* **Leader** of the committee receiving the tender to purchase **annual licenses** for the use of GIS software for the year 2019
* **Leader** of the committee receiving the tender to purchase **annual licenses** for the use of GIS software for the year 2018
* **Leader** of a committee to respond with a detailed technical report on the observations of the Auditor of the Accounting Bureau regarding the supply, installation, operation and maintenance of devices for **graphic and digital design** labs for the need of Salt College, funded by the European Union 2017
* **Member** of the **Graduate Studies Committee** at Prince Abdullah bin Ghazi College for Information Technology 2017/2018
* **Member** of a committee to **study the content of the level exam and its suitability** to the current reality of technology 2017
* **Member** of the Committee to **study the content of computer material** (1) and its laboratory and reformulate the content 2017
* **Member** of a committee to study **the feasibility of adding a remedial course** in the name of Computer 99 so that it is a requirement for students in the event of failure to pass the Computer Level Exam 2017
* **Member** of an investigation committee about **complaints submitted about Computer** Skills (2) exam for students of scientific colleges 2016
* **Leader** of a committee to **create a digital society subject** to be added to the requirements of the optional university 2017
* **Member** of the **Graduate Studies Committee** at Prince Abdullah bin Ghazi College for Information Technology 2015/2016
* **Member** of the **Study Plan Committee** at Prince Abdullah bin Ghazi College for Information Technology 2017/2018
* Providing a course in computer skills for the **local community (Al-Balqa Governorate Agricultural Directorate)** in cooperation with the Consultation Center, summer 2016.
* **Member** of the **Committee for the Study of Appointment Requests**, filling in the schedule of trade-offs and conducting interviews for faculty members with Ph.D. holders in the field of Information Security and Cyberspace 2017
* **Member** of the Prince Abdullah bin Ghazi College of Information Technology **Council** 2015/2016
* **Member** of the **Preparation Committee for the Scientific Day** 2017/201
* **Member** of the **Graduate Studies Committee** at Prince Abdullah bin Ghazi College for Information Technology 2015/2016
* **Member** of the **Vision and Mission Defining** Committee for the Prince Abdullah bin Ghazi College for Information Technology 2018

**Meeting and Conferences (Sample)**

* 2018 International Arab Conference on Information Technology (**ACIT** **2018**), 3-5 December 2018, Beirut, Lebanon.
* International Conference on Advanced Technologies for Signal and Image Processing (**ATSIP’2017**), 23rd – 25th May 2017, Fez, Morocco.
* **Proposal Writing for H2020 EU funding opportunities, SRTD II European Commission**, 17 – 19th January 2017, Amman, Jordan.
* Workshop “**Blackboard Learn Administration**”, Saudi Electronic University, 12th -15th May 2014, Riyadh, Saudi Arabia.
* Workshop on the “**Mechanisms for Achieving Quality Performance in Emerging Universities**”, 1st-2nd April 2014, Al-Baha University, Saudi Arabia.
* **Scientific research is a societal necessity and a future leadership**, first national meeting for scientific research, 17th -18th March 2014, Al-Baha University, Saudi Arabia.
* **Computer Assisted Radiology and Surgery**, 24th International Congress and Exhibition, 23rd – 26th June 2010, Geneva, Switzerland.
* Workshop "**Uncertainty Visualization**", 12th-13th August 2010, Bremen, Germany.
* Medical Image Understanding and Analysis (**MIUA**), 14th - 15th July 2009, Kingston University, London, UK.
* **PGBioMed**, 12th-14th July 2009, Magdalen College, Oxford University, UK.
* **IPEM Managing Motion in Radiotherapy**, 29th April 2009, Manchester, UK.
* **Medical Image Understanding and Analysis (MIUA),** 2nd-3rd July, 2008, Dundee, UK.

**Memberships**

* The Institution of The Institution of Engineering and Technology (**IET**). http://www.theiet.org/
* The Society of Photo-Optical Instrumentation Engineers (**SPIE**). http://spie.org/?SSO=1
* The British Machine Vision Association (**BMVA**). http://www.bmva.org/
* The Jordan Computer Society (**JCS**). http://www.jcs.org.jo/en/
* **Doctors without borders**. http://www.msf.org/en/country/spain

**Journals and Conference Peer Reviewing**

* Computers in Biology and Medicine, ISSN 0010-4825 <https://www.journals.elsevier.com/computers-in-biology-and-medicine>
* International Conference on Bioengineering, Biomedical Signal and Image Processing, Gran Canaria (SPAIN), 2021. <https://biomesip.ugr.es/>
* Journal of Intelligent & Fuzzy Systems, ISSN: 1064-1246 <https://www.iospress.nl/journal/journal-of-intelligent-fuzzy-systems/>
* International Journal of High Performance Computing Applications, ISSN: 1094-3420, USA. <http://journals.sagepub.com/home/hpc>
* IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), 2015, Jordan. <https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=34041>
* International Conference on Information and Communication Systems, 2011, Jordan.

**Publications**

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| **Publication information** | | | | | | | | | | | | | | | | | | | | | | | | **ID** |
| [**Harris hawks optimization for COVID-19 diagnosis based on multi-threshold image segmentation**](https://link.springer.com/article/10.1007/s00521-022-08078-4) | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Publisher | | ISSN | | Pages | | Issue | | | | | Volume | | | | | Journal | | Year | | | | | Authors |  |
| Springer | | 0941-0643 | | 6855-6873 | 9 | | | | | | 35 | | | | | [Neural Computing and Applications](https://www.springer.com/journal/521) | | 2023 | | | | | Mohamad Ryalat, **Osama Dorgham**, Sara Tedmori, Zainab Al-Rahamneh, Nijad Al-Najdawi & Seyedali Mirjalili |  |
| [**U-NetCTS: U-Net deep neural network for fully automatic segmentation of 3D CT DICOM volume**](https://www.sciencedirect.com/science/article/abs/pii/S2352648322000393) | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Publisher | | ISSN | | Pages | | | Issue | | | | Volume | | | | Journal | | | Year | | | | | Authors |  |
| Elsevier | | 2352-6483 | | 100304-100317 | | | - | | | | 26 | | | | [Smart Health](https://www.sciencedirect.com/journal/smart-health) | | | 2022 | | | | | **O. Dorgham**, M. AbuNaser, M.H.Ryalat, A.Hyari, N.Al-Najdawi, S.Mirjalilicd |  |
| [**A hybrid convolutional neural network model for detection of diabetic retinopathy**](A%20hybrid%20convolutional%20neural%20network%20model%20for%20detection%20of%20diabetic%20retinopathy) | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Publisher | ISSN | | Pages | | | | Issue | | | Volume | | | | Journal | | | | | Year | | | Authors | |  |
| InderSciecne | 0952-8091 | | 179-196 | | | | 3 | | | 70 | | | | [International Journal of Computer Applications in Technology](https://www.inderscienceonline.com/journal/ijcat) | | | | | 2022 | | | Musa Alshawabkeh, Mohammad Hashem Ryalat, **Osama M. Dorgham**, Khalid Alkharabsheh, Mohammad Hjouj Btoush and Mamoun Alazab | |  |
| [**Monarch butterfly optimization algorithm for computed tomography image segmentation**](https://link.springer.com/article/10.1007%2Fs11042-020-10147-6) | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Publisher | | ISSN | | Pages | | | | Issue | | | | Volume | | | | | Journal | | | Year | | | Authors |  |
| Springer | | 1380-7501 | | 30057-30090 | | | | 20 | | | | 80 | | | | | [Multimedia Tools and Applications](https://www.springer.com/journal/11042) | | | 2021 | | | **O. M. Dorgham**, M. Alweshah, M. H. Ryalat, J. Alshaer, M. Khader, S. Alkhalaileh |  |
| **[Automatic Body Segmentation for Accelerated Rendering of Digitally Reconstructed Radiograph Images](https://www.sciencedirect.com/science/article/pii/S2352914820302446)** | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Publisher | | ISSN | | Pages | | | | | Issue | | | | Volume | | | | Journal | | | | Year | | Authors |  |
| Elsevier | | 2352-9148 | | 1-24 | | | | | 0 | | | | 20 | | | | [Informatics in Medicine Unlocked](https://www.journals.elsevier.com/informatics-in-medicine-unlocked) | | | | 2020 | | **O. Dorgham**, M. Reyalat and M. Abu Naser |  |
| [**Improved water cycle algorithm with probabilistic neural network to solve classification problems**](https://link.springer.com/article/10.1007/s10586-019-03038-5) | | | | | | | | | | | | | | | | | | | | | | | | 6 |
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