MOHAMMED ALDASHT, Ph.D

Assistant Professor, at Computer Engineering Department, PPU.

Personal Info

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Date of birth: 3rd of July, 1976

Place of birth: IDNA

Citizenship: Palestinian

Languages

Arabic: Mother Language

Español: Proficient

English: Proficient

Skills

- Accreditation and evaluation of academic programs and colleges
- Proposal Writing for European Projects (Tempus and Erasmus+)
- Parallel programming using MPI, Linux system administration, C programming, and Matlab programming
- Academic course design and learning material development (Computer architecture, Computer Networks, Parallel Computing etc...)

Summary:

Dr. Aldasht is an Assistant Professor of Computer Engineering at Palestine Polytechnic University (PPU). He holds a Ph.D. in Computer Engineering from the University of Granada, Spain and joined the IT department at PPU as an Assistant Professor in 2004. In 2009 Aldasht held the position of IT department head, and in 2010 he became the Dean of the College of Administrative Sciences and Informatics. In 2014 he was promoted to Assistant Vice President for Academic Affairs at PPU where he served for 2 years. In 2017 he moved to join the department of computer engineering at PPU. In 2016 he became the Dean of Admission and Registration at PPU where he served for 4 years. Ultimately, in 2022 he was promoted to Assistant Vice President for Information Technology.

His research interests are in the area of parallel and high performance computing and evolutionary algorithms with a focus on using evolutionary algorithms to successfully undertake complex problems like scheduling, classification and dynamic optimization.

Experience:

September 2004 - Present

Assistant Professor of Computer Engineering
College of IT and Computer Engineering, PPU

July 2016 - June 2020

Dean of Admission and Registration, PPU

September 2014 – June 2016

Assistant Vice President of Academic Affairs, PPU

August 2010 – July 2012

Dean College of Admin. Sciences and Informatics, PPU

August 2009 – July 2010

Head of Department of Information Technology, PPU

September 1999 – July 2000

Computer Lab. Supervisor, PPU

Work Achievements:

- Member of higher committee for academic affairs, since 2015.
- Member of the founding committee of MD program at PPU.
- Participate in reviewing and developing the University regulations and laws for BSc, MSc, MD and PhD degrees, PPU 2016-2020.
- Participate in the reform and development of study plan for MSc in Informatics, 2013.
- Lead the reform and development of study plan for three BSc programs: computer systems engineering, information technology and computer science, PPU 2012.
- Lead the founding committee of College of Information Technology and Computer Engineering, PPU 2011.
- Lead the founding committee of M.Sc. program in Informatics, PPU 2008.
- Lead the evaluation of B.Sc. program in Information Technology, PPU 2006.

Development Projects:

Project title: eGovernment Lifelong Learning Consortium, funded by TEMPUS.

Coordinator: Birzeit University

Web site: http://www.egovacademy.ps/

Advanced learning material developed:

- **Title**: Process Integration and Service Oriented Architectures.
- **Duration**: 48 hours of training delivered for 2 times.

Education:

October 2000 – July 2004:
PhD Degree from the University of Granada, Spain. In Computer Engineering.

- PhD Thesis Title "Evolutionary computing and dynamic load balancing procedures in cluster computers", Thesis Supervisors: Julio Ortega Lopera and Carlos Garcia Puntonet.
- PhD courses in the Dep. of Computer Architecture and Technology, PhD program: computer engineering: perspectives and applications.

September 1994 – July 1999:
Bachelors of Engineering in Computer Systems Engineering from Palestine Polytechnic University.

September 1993 – June 1994:
IDNA High School, Scientific Branch, Tawjihi.

Special Courses:

October 2001 – July 2002
Escuela Arte Granada, Advanced course in network administration: Data base programming, oracle, SQL server, Win. and Linux servers.

Graduate Courses Taught:

- Research Methods and Skills
- Computer Networks
- Parallel and Distributed Computing
- Computer Architecture

Undergraduate Courses Taught:

- Digital logic & Digital systems design
- Advanced Computer Architecture
- Computer Architecture and Design
- Parallel and Distributed Computing
- Advanced Computer Networks
- Computer Networks

Master Thesis Supervised:

- Fedaa H. Amro, "Sentiment Analysis of News Headlines on Middle East in Arabic Media", MSc in Informatics, January 2020.
- Ghadeer Hassouneh, "Using PSO and WSVM to Enhance Imbalanced Data Classification", MSc in Informatics, 2019.
- Amal Abuzalata, "Academic Performance Prediction for Engineering Students using RBF-SVM Classification Model Case Study: PPU", MSc in Informatics, 2019.
- Safa Ibrahim Adi, "Parallel Scatter Search Algorithm for Feature Selection in High Dimensional Datasets", MSc in Informatics, 2017.
- Fatima I. Koumi, "Feature Selection for Large Datasets using Particle Swarm Optimization", MSc in Informatics, 2016.
- Azeeza Zakaria Salameh, "Optimization of High Dimensional Data Visualization using Parallel Genetic Algorithm", MSc in Informatics, 2016.
- Murad Alkubabji, "Genetic-based feature selection for classification in large datasets using one-class SVM", MSc in Informatics, 2015.
- Wael Takrouri, "Parallelizing Computation of a Hybrid Algorithm of Nonlinear Model Predictive Control", MSc in Informatics, 2014
- Sami Salamin, "Multi-objective genetic algorithm optimization using CUDA", MSc in Informatics, 2012.
- Ahmed Jabari, "Dynamic thread scheduling on heterogeneous Multicore Processors", MSc in Informatics, PPU 2011.

- Wireless and High-Speed Networks
- Embedded Systems
- Operating Systems
- Computer Programming

Selected Senior Projects Supervised:

1. Aseel Muhtaseb, Areen Adam, "Social-Media Platform Using Specialized Virtual Communities", BSc in Computer Science, PPU 2022.
2. Muhammad Dwaib & Ibrahim Qdemat, "Grid Computing In PPU", BSc in Computer Systems Engineering, PPU 2014.
3. Insaf Al-Najar, Muna Tamimi and Tareq Takruri, "University course scheduling using parallel multi-objective evolutionary algorithms", BSc in Information Technology, PPU 2009.
4. Bayan Al-sarsour, Dima Al-jabary and Hiba Al-ju'beh, "Water Consumption Prediction in Hebron Using RBF Neural Networks", BSc in Information Technology, PPU 2009.
5. Safaa Adi and Mohammad Abu-Qubita, "University Course Scheduling Using Evolutionary Algorithms", BSc in IT, PPU 2008.
6. Mohammad Abu Taha and Bilal Jbour, "Virtual Class as an e-learning tool", BSc in Information Technology, PPU 2007.
7. Tayseer Sweiti and Ola abu Shekha, "Simulation of Parallel Router Using Clusters of PCs", BSc in Computer Systems Engineering, PPU 2005.

Publications:

- **Journals:**

1. Thaher T, Sheta A, Awad M, Aldasht M. Enhanced variants of crow search algorithm boosted with cooperative based island model for global optimization. Expert Systems with Applications. 2024 Mar 15; 238:121712.

Master Thesis Examined:

- **As Internal Examiner:**
- Yasmeen Y. Amro, "Dynamic Scalable Energy-Aware Routing Protocol for Mobile Ad hoc Networks", MSc in Informatics 2020.
- Arwa Ballal, "Protein Classification Optimization based on Encoding Descriptors", MSc in Informatics 2016.
- Anas Amro, "Wait – Then- Migrate Fault Tolerance Approach using OpenNebula", MSc in Informatics 2015.
- Samah Badawi, "Using GA for improving the visualization of proteomic data", MSc in Informatics, 2015.
- Haneen Altartouri, "Using Clustering to Enhance Protein Sequence Classification", MSc in Informatics, 2013.
- Mohammad Abu Taha, "A Secure Hash Algorithm Based on Hill Cipher Technique", MSc in Informatics, 2011.

- **As External Examiner:**
- Thaer Drabee, "Generative Adversarial Networks for Sketch Based Image Retrieval", MSc in Data Science and Business Analytics, Arab American University, 2023.
- Asma'a Khalil, "Clinical Decision Support System for Determining the Stages to Access Diagnosis, and Suggest a Protocol for Breast Cancer Treatment", MSc in Health Informatics, Arab American University, 2022.
- Muath I. Lahlabat, "Impact of HIS Downtime on the Delivery of Healthcare Services to Emergency Patients in Public Hospitals in the North of the West Bank", MSc in Health Informatics, Arab American University, 2021.

2. Thaher, Thaer, Mohammed Awad, Alaa Sheta, and Mohammed Aldasht. "Enhanced Capuchin Search Algorithm Using Cooperative Island Model with Application of Evolutionary Feedforward Neural Networks." In 2023 International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS), pp. 237-245. IEEE, 2023.

3. Thaher T, Awad M, Aldasht M, Sheta A, Turabieh H, Chantar H "An Enhanced Evolutionary Based Feature Selection Approach Using Grey Wolf Optimizer for the Classification of High-dimensional Biological Data" Journal of Universal Computer Science Vol. 28, No. 5, (pp. 499-539), May 2022.

4. Safa Adi, Mohammed Aldasht, "Parallel Evolutionary Algorithms for Feature Selection in High Dimensional Datasets", International Journal of Computer Science and Information Security, Vol. 16, No. 3, (pp. 181-188), March 2018.

5. M. Aldasht, "Particle Swarm Optimization for the Exploration of Distributed Dynamic Load Balancing Algorithms", International Journal of Soft Computing, Volume 10 Issue 5, PP. 307-314, 2015.

6. M. M. Aldasht, M. H. Saheb, I. Najjar, M. H. Tamimi, T. O. Takruri "University Course Scheduling Using Parallel Multi-Objective Evolutionary Algorithms", Journal of Theoretical and Applied Information Technology, JATIT, Volume 22 Issue 2, December 31, 2010.

7. M. Aldasht, J. Ortega, C. G. Puntonet, "Computación Evolutiva y Procedimientos de distribución de carga en clusters de computadores" Monografías del Dpto. de Arquitectura y Tecnología de Computadores. Julio-2004. Dep. Legal: GR-1182-2004.

- Mohammad H. I. Khateeb, "Prediction of Chronic Kidney Disease Depending on Patient Treatment History Using Machine Learning Techniques", MSc in Health Informatics, Arab American University, 2021.
- Mohammad A. Zedan, "Colorectal Cancer Risk Factors' Assessment in Palestine: A Framework for Prediction Tool", MSc in Health Informatics, Arab American University, 2020.
- Mahmoud Attieh, "Evaluation and Forecasting of University Students Performance Using Neural Networks and Fuzzy Logic Models", MSc in Computer Science, Arab American University, 2020.
- Amin Talahmeh, "Time Series Prediction of Server Workload Using Hybrid Model of Recurrent Neural Network and Optimization Algorithms", MSc in Computer Science, Arab American University, 2020.
- Haneen O. Qteat, "Using Enhanced Artificial Neural Networks Model for Classification and Diabetes", MSc in Computer Science, Arab American University, 2019.
- Burhan Ismaeel Taha Farah, "Intelligent Prediction Model for Non-Revenue and Demand of Urban Water: Case Study Beitunia City", MSc in Computer Science, Arab American University, 2019.
- Ateeq Omer Abdulhadi Ateeq, "Semantic Analysis of Social Networks Using Hybrid of Dictionary and Fuzzy Logic Approach", MSc in Computer Science, Arab American University, 2019.
- Alaa' Edin M. Alabdallah, "Intelligent Solution for New Cyberspace Attacks", MSc in Computer Science, Arab American University, 2017.

- **Conferences:**

1. Fatima Koumi, Mohammed Aldasht and Hashem Tamimi, "Efficient Feature Selection using Particle Swarm Optimization: A hybrid filters-wrapper Approach", The 10th International Conference on Information and Communication Systems (ICICS 2019) June 11-13, 2019 - Irbid –Jordan.

2. Murad Alkubabji, Mohammed Aldasht and Safa Adi, "One class genetic-based feature selection for classification in large datasets", the 3rd International Conference on Big Data, Cloud and Applications, BDCA'18, Kenitra, Morocco, April 4-5, 2018.

3. Rihabb Salamen, Mohammed Aldasht, "A Survey on TCP Performance for Mobile and Wireless Networks", 4th Palestinian International Conference on Computer and Information Technology (PICCIT), Hebron, Palestine, October 7-8, 2015.

4. M. Aldasht, M. Alsaheb, S. Adi, M. Abu-qobita, "University Course Scheduling Using Evolutionary Algorithms", Fourth International Multi-Conference on Computing in the Global Information Technology, IARIA, Cannes, Frances, 23-28 August, 2009.

5. M. Aldasht, J.Ortega, C.G.Puntonet, "Dynamic Load Balancing in Heterogeneous Clusters". The 2nd Palestinian International Conference on Computer and Information Technology (PICCIT), Hebron, Palestine, September, 2007.

6. M. Aldasht, J. Ortega, C. G. Puntonet, A. F. Diaz, "Exploración Evolutiva del Equilibrado de Carga Dinámico y Distribuido". Jornadas de Paralelismo, Universidad de Granada, Granada, 2005.

7. M. Aldasht, J. Ortega, C. G. Puntonet, A. F. Díaz, "A Genetic Exploration of Dynamic Load Balancing Algorithms". IEEE Conference on Evolutionary Computation, Portland, Oregon, 2004.

- Muneer Fuqaha, "Text Mining Using RBFNN & Optimization Algorithms", MSc in Computer Science, Arab American University, 2016.
- Mohammad Bawatneh, "Protocol for Dynamic Avoiding end-to-end Congestion in MANETS, MSc in Computer Systems Engineering, Alquds University, 2014.
- Bader Ajrab, "PC Grid Computing Environment In Higher Education Institutions", MSc in Computer Systems Engineering, Alquds University, 2013.
- Mousa Farajallah, "Self-generating multi-key cryptosystem for non-invertible matrices based on Hill Cipher", MSc in Computer Systems Engineering, Alquds University, 2010.

8. J. M. Górriz, C. G. Puntonet, M. Salmerón, J. Ortega, M. Aldasht: "Time series forecasting based on parallel neural network", EIS-2004, 29-febrero al 2 de Marzo, Madeira-Portugal. 2004. (IEEE)

9. J. M. Górriz, C. G. Puntonet, M. Aldasht, M. Salmerón, M. Damas: "Neural AR Prediction model using exogenous series implemented in PVM". Jornadas de Paralelismo, Leganés, Madrid, 2003. ISBN: 84-89315-34-5.