

## Mohammed Adnan Moreb, PhD

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## Languages:

Arabic: Native Speaker

English: (Speaking, Reading, & Writing)

Turkey: (Level A2)

## Key Qualifications

Expertise in advance AI/ML research, specifically focusing on deep learning, with a strong publication track record. ML engineering and software engineering research management experience in building high-throughput framework.

Dr. Moreb recently founded a new framework and methodology specialized in software engineering for machine learning in health informatics named SEMLHI, It investigates the interaction between software engineering and machine learning within the context of health systems, and based on our framework, I have three students (Master, Ph.D.) on progress thesis and one completed thesis (Master student).

[SEMLHI Framework](#) include four Components, simply this framework read the data and give the knowledge for the user, all hidden task automatically done by each module that include sub modules to finalize the require task, main four modules with sub-modules that composed the SEMLHI framework are:

1. Machine Learning Algorithms (Classification, Regression, Clustering, Dimensionality reduction, Model selection, and Preprocessing)
2. Machine Algorithm Model (Read the data, Prepare the data, Train the model, Test and evaluate the model, and Predict future).
3. Software (Reuse, Performance, Test, Privacy, and Security).
4. Health Informatics Data (Node Identifier, Outlier, Dictionary Translate, Data Source, and Encoding).

## Areas of specialization

Artificial Intelligence • Machine Learning • Software Engineering • eLearning System development.

## Education

- 2017–2020 Ph.D. in Electrical and Computer Engineering Istanbul Altinbas University, Turkey  
Research on structured prediction, computer vision, and deep reinforcement learning applied to health informatic system and developed SEMLHI framework which includes four modules (software, machine learning, machine learning algorithms, and health informatics data) that organize the tasks in the framework using a SEMLHI methodology, thereby enabling researchers and developers to analyze health informatics software from an engineering perspective and providing developers with a new road map for designing health applications with system functions and software implementations.
- 2007-2009 M.Sc. Computer science AI-Quds University  
Master Thesis: Final Exam Scheduling Timetable a Case Study
- 2000-2004 B.Sc. Information Technology Palestine Polytechnic University

## Professional Experience

- 2017-2020 Altinbas University, PhD Researcher special on software engineering with machine learning system, main output for our research published three research's, two papers on Q1 journal, the dataset used in our research consists of real data and was originally collected from a hospital run by the Palestine government covering the last three years.
- 2018-2020 ABCHorizone Academy, head of computer engineering department and eLearning Management System administrator.  
Main role in the Department:
- Response on the students and Staff,
  - provide Quality Assurance report for UCSI main campus.
  - Teacher for the AI/ML, website and development courses, Programming...
- 2018 Takwin Company, Website and eLearning Consultant.  
Takwin is one of the Best Companies in the management and development of programming and Internet projects in the Middle East and North Africa main role software engineering for enterprise system.
- 2017 LIGS University, eLearning consultant and assistant for master, PhD online degree for Turkey and Arabic Regions.
- 2009-2017 Hebron University, E-learning unit Manager. Main Tasks Assigned to develop the eLearning system which includes course management system, content management system, portfolio, online & live class system and other systems, which integrated as one system to provide the eLearning system for university, and teach and give training for all 200 teachers and more than 5K students on eLearning topics, based on publish many research's based on eLearning unit data.

- 2016 – 2017 HiCure (Erasmus+ Project), Worked with research team to develop, validate and write two courses (Clinical Decision Support Systems, Electronic Health Records) and three cases studies in analysis data by machine learning tools, the cases developed using student-centered adaptive e-learning contemporary education methodology.
- 2015-2018 RQTEPP-TELTA (Erasmus+), Work package leader for WP3, WP3 main role to establish smart learning room include all devices with user manual and prepare with research team to develop eight courses include all activity will use in SLR.
- 2007-2009 LIT project, Multimedia and E-learning Consultant(phase I), Multimedia Trainer (phase II), trainer coordinator (phase III), implement a project that aims to developing the learning quality at school and university levels through adopting learning and teaching modern practices using technology as a tool
- 2009-2010 AMIDEAST – MSN project, Design the training materials for the University Faculty and schools teacher, teach them to design e-learning courses and how to use the e-learning system.
- 2005-2010 Al-Quds University (Said Khoury IT Center of Excellence)  
Microsoft training for MCAD and MCSE.
- 2004-2009 Al-Quds University, Teacher Assistant, computer department.

### **Courses that are studied at the PhD level**

Advanced Software Engineering, Advanced Database Systems, Internet and Web Programming, Web Applications, Advanced Computer Architectures, Advanced Engineering Mathematics, Data Mining, Computer Network Analysis and Design, Seminar.

### **Courses Taught in Computing**

Research Methodology, Artificial Intelligence Fundamentals, Artificial Intelligence Strategy for Business Leaders, Business Intelligence, Robotics, Machine Learning, Data Analytics.

Advanced Software Engineering, Software Project Management, System Analysis & Design, Project Management Office, Database Systems, Advanced Database Systems.

Networking, Internet of Things, Computer Maintenance, Microsoft Dynamics 365.

Website Design & Development, Mobile commerce, Multimedia Programming, E-Commerce & Strategy, Mobile Programming, smart learning design and development, eLearning tools and development.

Data Structures & Algorithms, Operating Systems, python Programming, advance Security tools, WebLogic Server, Advanced Computer Architectures.

Programming with Microsoft ADO.NET, Developing Microsoft ASP.NET Web Applications Using Microsoft Visual Studio .NET, Microsoft Certificate system engineering ( MCSE)

## Selected Publications

### Journal articles

- 2020 Mohammed Moreb; Tareq Abed Mohammed; Oguz Bayat, A Novel Software Engineering Approach Toward Using Machine Learning for Improving the Efficiency of Health Systems, 29 Jan 2020, IEEE Access, SCIE with JCR 4.
- 2020 Mohammed Moreb; Tareq Abed Mohammed; Oguz Bayat, Oguz Ata, Correction to “ A Novel Software Engineering Approach Toward Using Machine Learning for Improving the Efficiency of Health Systems”, 2 April 2020, IEEE Access, SCIE with JCR 4.
- 2019 Mohammed M; Oguz Ata, Software Engineering for Machine Learning in Health Informatics, Europe PMC, Dec 2019.

### Conference articles

- 2017 Mohammad M. Moreb, The risks and impacts of smart devices and social networks on privacy and security awareness, The Second International Conference for Learning and Teaching in the Digital World \ Smart Learning " (29-30 March 2017) in al-Najah University.
- 2017 Mario Macedo, Carol Jabari, Mohammad Moreb, Towards an Improvement of Patient Safety: A Framework for Clinical Decision Support Systems, Med-e-Tel<sup>i</sup>, an International Society for Telemedicine & eHealth (ISfTeH) event, Switzerland, April 2017.[ PDF, HTML].
- 2015 Mohammad Moreb, From a Dilapidated Blackboard to Creative Flash Videos: The Case of Training Teachers of Schools in Hebron, Fifth International Conference on e-Learning (econf) 2015, University of Bahrain, (18 – 20 Oct 2015 in Manama, Kingdom of Bahrain – IEEE Publication [DOI: 10.1109/ECONF.2015.15 ].
- 2015 Mohammad M. Moreb, Enterprise eLearning system by integration Moodle and Mahara with high performance for university community student, University of South Australia, City West Campus, Adelaide – 16 April 2015.
- 2013 Mohammad M. Moreb, E-learning at Hebron University a Case Study - Fourth International Conference on e-learning Best practices in management, design and development of e-courses: standards of excellence and creativity" (7th – 9th May 2013) in Manama, Kingdom of Bahrain – IEEE Publication [Pages: 438 - 441, DOI: 10.1109/ECONF.2013.71].
- 2013 Mohammad M. Moreb, Implementing Blended Learning in Palestinian Universities: Challenges and Perspective - ICAS 2013 – Gaza.



## Journal and conference Reviewer

- 2020 Springer Nature Journal, Reviewer for Machine Learning topic.
- 2020 Journal of Software: Evolution and Process, Reviewer for healthcare information systems topic.
- 2020 [Program Committee](#), the 36th IBIMA conference on 4-5 November 2020 in Granada, Spain, indexing (Scopus and Web of Science), [ibima.org](#)
- 2019 The 34th IBIMA Conference: 13-14 November 2019, Madrid, Spain, indexing (Scopus and Web of Science), [ibima.org](#)
- 2017 The 8th International Conference on Society and Information Technologies: ICSIT - [www.iiis-spring17.org](#)
- 2017 The Fourth International Conference on Education Technologies and Computers (ICETC2017) - St. Mary's University, Addis Ababa, Ethiopia on April 22-24.
- 2017 EAPRIL 2017 Conference - The 17th Biennial conference of the European Association for Research on Learning and Instruction (EARLI) - Tampere, Finland hosted by the University of Tampere, (28 Nov - 03 Dec).

## International Training, short Visit

- Turkey Istanbul, December 2016, Health Informatics Pathway Structures and Course Descriptions Workshop, Moreb Present presentation for Review of potential eLearning Environments in Palestine and Jordan Universities.
  - Germany Den Bosch, Holland, 19 – 28 Nov 2016, Fontys School for Child Studies and Education. Workshop and training about course development and using ICT in education.
  - Lisbon Atlantic University, April 2016, Health Informatics Capacity Building Workshop.
  - Finland Joensuu, University of Eastern Finland, March 2016, workshops & collaborative development to finalize the smart Learning Room.
  - United Kingdom Canterbury, Sep 2014, Technology Enhanced Learning workshop.
  - Kingdom of Bahrain Manama, May 2013, workshops in using eLearning platforms.
  - India New Delhi, Jan – March 2007, Certified Course in web design.
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