AMAL MOH'D BARAKAT AL-DWEIK

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Education

> ➢ PhD. of Information Networks (2004-2009). Cairo University. Faculty of Computers and Information. Cairo. Egypt.

> ➢ M.Sc. of Computer Science (2000-2002) – GPA: B+, University of Jordan, Amman, Jordan.

> ➢ Bachelor of Eng. of Computer Systems Engineering (1994-1999) – GPA:89.9%

> ➢ General Secondary Certificate – Scientific Branch – GPA: 95.1%, Barakat School for Girls, Hebron, Palestine.

Career History & Accomplishments

Palestine Polytechnic University, Hebron, Palestine

Instructor (2002 – 2004, 2005- until now):
- Teaching the following graduate and undergraduate courses:

  - Introduction to Computers.
  - Computer and programming principles
  - Computer Programming.
  - Advanced Computer Architecture.

- Advanced Operating Systems.
- Computer Organization.
- Computer Architecture.
- Computer Organization and Architecture.
- Software Engineering.
- Programming Languages.
- Special Topics in Programming
- Computer Graphics.
- Operating systems
- Principles of Computers and Programming
- Mobile Agent Systems
- Distributed Systems (Graduated Studies)

- Supervision

  - Master Thesis
    - Fault Tolerance Issue in Cloud Computing Systems "Wait – Then- Migrate Fault Tolerance Approach using OpenNebula", Anas Amro, Master of Informatics, Dec., 2014.
    - Enhancing The Performance Of The Ad Hoc Routing Protocol Using Mobile Agents Approach, Walaa Shawar. Master of Informatics, In Progress (2015).
    - Performance Analysis Of Fault Tolerance Approaches For Mobile Agents In Wireless Networks, Suzan Sweiti, Master of Infromatics, In Progress (2014).

  - Undergraduate projects:

    - Electronic Election.
    - Encryption/Decryption Techniques using Steganography.
    - Data compression and decompression (4 projects).
    - Software Agent Systems.
    - Simple Robot Prototype
    - Fault tolerance of mobile Agents- simulation
    - Autonomous Mobile Robot Location Based System

Al-Quds Open University, Hebron, Palestine.

<u>Part Time Instructor (2003): Teaching the following course:</u>

- Programming in C.

Palestine Polytechnic University, Hebron, Palestine.

Teaching Assistant (1999 - 2000):
<u>Teaching the following courses to Diploma students:</u>

- Programming in Pascal.
- Software Engineering.
- Introduction to Office Automation.
- Introduction to Computers.
- Supervision of the following computer laboratories:
- Programming in Pascal.
- Computer Applications.
- Introduction to Oracle Labs.

<u>Supervision of the following software projects:</u>

- The Rules of Inheritance in Islam.
- Accounting Systems.
- Database Projects.

Trusted Systems, Hebron, Palestine

<u>Programmer and General Secretary (March 1999 – September 1999):</u>

- Secretary Duties.
- Participation in Programming Several Database Projects
- (MedLab, Clinical System).

External Courses:

- Basics of Java Programming (2002).
- Introduction to Oracle Programming (1999):
- CCNA training, Centre of Technology. Faculty of Engineering. Cairo University. 2005
- Several workshops (Norton system, mobile communication: Cairo, Egypt) (2005).

Publications

Journals and Conferences

- Amal Dweik and I. Ismail, "Fault tolerance of Mobile Agents". The International Arab conference on Information Technology "ACIT2005". Held at 6th to 8th Dec.2005, Amman.
- Amal Dweik, and I. Ismail, "Fault tolerance of Mobile Agents – Centralized Approach". 2nd International Computer Engineering Conference-Engineering the Information Society ICENCO'2007". Faculty of Engineering, Cairo University. Cairo, EGYPT. December 26-28, 2006.
- Amal Dweik and S. Ahmad, "Fault Tolerance of Mobile Agents Systems – FTMAS". Egyptian Journal of Information. Accepted to be published, Vol.2, Issue: 10. September, 2009. Cairo. Egypt.
- Amal Dweik, I. Ismail, and S. Ahmad, "Fault tolerance of Mobile Agents Systems (FTMAS) Modeling". The International Arab conference on Information Technology "ACIT2012". 10th to 13th Dec.2012, Zarqa, Jordan.
- Amal Dweik, I. Ismail, and S. Ahmad, Fault Tolerance Mobile Agent Execution System (FTMAS) Modeling and Performance Analysis. The 5th International Conference on Information & Communication Systems (ICICS2014), April 1st – 3rd 2014, Irbid, Jordan.
- Amal Dweik and A. Amro: Wait-Then-Migrate Fault Tolerance Approach using Open Nebula, in PICCIT2015, Hebron, Plaestine.
- S. Sweiti and Amal Dweik, IRCFT implementation and results. PICCIT2015, Proceedings of the 4th Palestinian International Conference on Computer and Information Technology. October, 2015.
- S. Sweiti and Amal Dweik, Integrated Checkpoint-Replication fault Tolerance Approach of Mobile Agents"IRCFT". ACCIT, Proceedings of the 16th International Conference on Information Technology. December, 2015.

- W. shawar, Amal Dweik, "A New Approach for QOS Based Ant Colony Optimization Routing Protocol In MANETs (QOS-Based ACO)", 4th Palestinian International Conference on Computer and Information Technology (PICCIT 2015), Palestine Polytechnic University , 2015.
- W. shawar, Amal Dweik,"A Survey: The Agent Based Routing Protocols In the Wireless Ad hoc Networks", 4th Palestinian International Conference on Computer and Information Technology (PICCIT 2015), Palestine Polytechnic University, 2015.
- S. Sweiti and A. Dweik, "Integrated Replication-Checkpoint Fault Tolerance Approach of mobile agents "IRCFT"". International Arab Journal of Information Technology (IAJIT). Volume 13, no. 1A, February 2016.
- I. Sharha and A. Dweik, "Digital Interactive Storytelling Approaches: A Systematic Review", Proceedings of the 3rd International Conference on Computer Science & Engineering (CSEN-2016), Dubai, 27-28/8/2016.

Books

- Fault Tolerance of Mobile Agents, LAP LAMBERT Academic Publishing (April 30, 2012), ISBN-10: 3848438267, ISBN-13: 978-3848438266.