

Allam Mousa

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Current Position

Deputy President for Planning Development & Quality, Director of Quality Assurance Unit, SMIEEE, Associate Professor in Electrical Engineering, Chairman of IEEE Palestine Subsection

EDUCATION

- 1992-1996 **Ph.D.**, Electrical & Electronics Engineering, Eastern Mediterranean University (EEE-EMU), Telecommunications and Digital Signal Processing, **High Honor and full scholarship**, CGPA 3.73/4.00. (EEE-EMU is ABET accredited)
- 1990-1992 **M.Sc.**, Electrical & Electronics Eng., EMU, Adaptive Digital Filters, **High Honor and full scholarship**, CGPA 3.78/4.00
- 1988-1990 **B.Sc.**, Electrical & Electronics Eng., EMU, Telecommunications, rank **1st** out of EEE graduates and **2nd** out of university graduates, **High Honor and full scholarship**, CGPA 3.58/4.00
- 1984-1987 Electrical Engineering, Bir Zeit University, Palestine

WORK EXPERIENCE

1) Teaching and administrative

- 2009 - ... Deputy President for Planning Development & Quality, An Najah University
- 2009 - ... Director of Quality Assurance Unit, An Najah University
- 2002 - 2009 Chairman, Electrical Engineering Department, An-Najah University
- 1999-2000 Chairman, Electronics Engineering Department, Al-Quds University
- 2000 - ... Electrical Engineering Department, An-Najah University
- 1996- 2000 Electronics Engineering Department, Al-Quds University
- 2000 -2008 Al-Quds Open University, Nablus (part timer)
- 1990-1996 Electrical & Electronics Engineering Department, Eastern Mediterranean University, Teaching & Research Assistant

2) Consultation experience

- Asian Pacific Quality Network, 2011
- UNDP, Specialist Reviewer for Engineering Curriculum Reviewing, 2007
- Curricula Consultant for several national and international Universities, 2008

3) Visiting Professor/Researcher (GRANTED)

- Visiting Professor, UTHM, Malaysia, August 2008. Visiting Professor, COMSATS-ciit Islamabad, Jun.07–Aug.07. Visiting Researcher, “Equipe Signal et Image”, (Signal and Image Lab.) CNRS, ENSARB, University of Bordeaux I, France, Nov.99, March 98, Aug.97

Certifications or professional registration

SMIEEE,

SELECTED ACHIEVEMENTS

- Chairman and co-founder of IEEE Palestine subsection, 2012
- Counselor and co-founder of IEEE An Najah Student Branch, 2009
- Counselor and co-founder of IAS chapter, IEEE SB ANU, 2009
- Team Leader, Preparing the Strategic plan for ANU, 2011-2015
- Team Leader, Preparing the Self Evaluation Report based on EFQM standard, 2011

EXPERIENCE ON HE QUALITY MANEGMENT, ASSURANCE & PLANNING

(EXAMPLES)

1. International Arab Conference on Quality Assurance, Bahrain 4-5/4/2012 and Jordan 2011, (Steering and Scientific Committees)
2. Workshop on University Governance Screening Card, Organized by (CMI) World Bank, Cairo, November 19 - 20, 2011
3. “Quality Enhancement in Higher Education: The New Quality Process in Europe”, Central European University, Budapest, AMIDEAST, 16-19 February 2010.
4. Developing a programme and its Intended Learning Outcomes- organized by British Council and AQAC, Nablus, An Najah University, 2-March-2009
5. Training Session on Industrial System Integration (ISI) and curriculum development, Tempus Project

Ph.D. Field: Telecommunications, Information Theory, Speech Compression and Coding.

Thesis title: “Pulse Excited Linear Predictive Methods for Low Bit Rate Speech Coders”

M.Sc. Field: Adaptive Filters, complexity and design.

Thesis title: “Computationally Efficient Adaptive Digital Filters”

SELECTED PUBLICATIONS

1. Mousa A., Mahmoud H. “Reducing ICI Effect in OFDM System using Low Complexity Kalman Filter Based on COMB Type Pilots Arrangement”, *Int. J. Commun. Syst.* Wiley, Vol.24, Issue 1, pp. 53-61, DOI: 10.1002/dac.1138, Jan. 2011
2. Mousa A. “Voice Conversion Using Pitch Shifting Algorithmby Time Stretching with PSOLA and Re-Sampling”, *Journal of Electrical Engineering*, Vol.61, No.1, pp.57-61, 2010

3. Mousa, A. "The Role of Pitch Filter in the Pulse-by-Pulse Re-optimization of the LP Synthesis Filter", An Najah University Journal of Res. (N. Sc), Vol. 16 (2), pp. 103-115, 2002.
4. Hacıoglu, K., Hasib, "Pulse-By-Pulse Re-optimization of the Synthesis Filter in Pulse Based Coders", IEEE Trans. on Speech and Audio Processing, Vol. 06, No.02, pp. 180-185, March 1998.
5. Hasib, A., Hacıoglu. "Source Combined Linear Predictive analysis in Pulse based Speech Coders", IEE Proceedings, Vision Image and signal Processing, Vol. 143, No.3, pp. 143-148, June 1996.

Conference Papers

1. The First Palestinian Conference on Electromagnetic Radiation, "Electromagnetic Radiation at the Neighborhood", 7/Dec./2010
2. Allam Mousa, Saleh Ahmad, "Fixed Telecommunication in Palestine, Problems and Solutions", Article No. 113 Session 5B. The 25th Arab Engineering Conference, Libya 16-18 November 2009.
3. Mousa A. "Difficulties and Possibilities of Teaching Technology at Some Palestinian Universities (Personal Experience)", International Conference on Integration of Information Technology in Science Education, EMU, Gazimağusa, TRNC, 16 – 18 January 2007
4. Mousa A. "Data Encryption Performance Based on Blowfish", IEEE Xplore, 47th International Symposium ELMAR-2005 focused on Multimedia Systems and Applications, pp. 131-134, Zadar, Croatia, 08-10 June 2005.

BOOK EDITOR

Telecommunication Book–Vocational school-12th grade- Ministry of Education- Palestine- 2006

REVIEWER (Scientific Journals and Conferences)

IEEE Computer Society, Elsevier-Direct Science Journals, IET- Signal Processing, IET Communications, IET Image Processing, Steering & Scientific committees "1st Palestinian Conference on Electromagnetic Radiation", 2010, Steering & Scientific committees "The International Arab Conference on Quality Assurance in Higher Education (2010, 2011, 2012), IEEE International Conference on Signal Processing and Communication, Dubai, United Arab .

REVIEWER (Sample of Academic Work)

Academic Subject Reviewer (UNDP) 2008. Self Evaluation Committee of the Electrical Engineering Department. Palestinian Ministry of Higher Education. Palestinian Accreditation and Quality Assurance Commission. UNDP, Specialist Reviewer for Engineering Curriculum Reviewing, 2008. Curricula Consultant for several national and international Universities

SELECTED WORKSHOPS ATTENDED

1. IEEE 98th Region 8 meeting in Berlin, 2012. The International Arab Conference on Quality Assurance in Higher Education, Bahrain, 2012. Digital Signal Processing, ScienTech, India, 2011
2. Image Processing, Digital Communications, Micro-controllers and Real Time Tasks,

SELECTED PROPOSAL WRITING

1. Establishing Teaching Excellence Center at An Najah University, 2010
2. B. Sc. Program on Telecommunication Engineering, An Najah University, 2008
3. B.Sc. Program on Industrial System Integration – FINSI (TEMPUS project 2003-2005)

SELECTED MEMBERSHIPS

1. IEEE (Signal Processing Society & Communication Society)
2. Engineering Association (Palestinian/Jordanian)

RESEARCH INTEREST

1. Quality Assurance and Planning for Higher Education
2. Digital Signal Processing; compression, coding, encryption for image and audio signals.
3. Channel Estimation for OFDM system under varying environments

SELECTED COURSES TAUGHT

- Digital Speech and Audio Processing
- Communication theory
- Digital communications
- Information and coding theory
- Digital signal processing
- Communication systems
- Microwave
- Control theory
- Logic circuit design
- Electromagnetic I
- Electromagnetic II
- Electronics I
- Network analysis
- FORTRAN 77
- Circuit theory

SELECTED MASTER THESIS SUPERVISION AND JURY

- “Channel Estimation for OFDM to Improve the Performance of WiMax Applications”, supervisor, Al Quds University, 2009
- “Estimation of Noisy Multichannel Autoregressive Processes based on Optimal Filters” jury member, Al Quds university, 2009
- “Planning of the Telecommunications Network in Palestine”, supervisor, An Najah University, 2005

HONORS & SCHOLARSHIPS (GRANTS)

1. Visiting professor and researcher to Franc Pakistan & Malaysia, 1997, 98, 99, 2007, 2008
2. Assistantship, Electrical & Electronics Engineering Department, EEE-EMU, 1990-96.
3. Scholarship, EEE-EMU, 1989-1996.

SELECTED PRESENTATIONS

Speech Coding for Cellular Communications systems, UTHM, Malaysia, August, 2008.
Encryption, What, Where and Why; COMSATS, Islamabad, August, 2007. Data Security; NATO Advance Research Workshop on Information Security Assurance and Security, Tetuan, Morocco.

LANGUAGES

- English, education, Arabic, mother language, Turkish, intermediate