

Curriculum Vitae

Name	Dr. Abdulmohsen A. Alheraish
Position	Associate professor at Electrical Engineering Dept. College of Engineering, King Saud University
Nationality	Saudi
Sex	Male
Marital Status	Married
Language Skills	Arabic, English
Address	Electrical Engineering Department College of Engineering King Saud University P.O. Box 800, Riyadh 11421 Saudi Arabia
Qualification	<ol style="list-style-type: none">1. Ph.D., Electrical and Electronic Engineering Dept., University of Strathclyde, Glasgow, Scotland, 1996-2000. <i>Title of Thesis</i> "Reliable VBR video communication using error control techniques in ATM networks"2. M.Sc., Electrical Engineering Dept., Faculty of Engineering, University of Missouri-Columbia, USA, 1986 -1988. <i>Title of Thesis</i> "Digital implementation of the LMS and RLS adaptive algorithms"3. B.Sc., Electrical Engineering Dept., College of Engineering, King Saud University, 1980 -1985

Employment

- Demonstrator at Electrical Engineering Dept., College of Engineering, King Saud University, Engineering Dept., King Saud University, Saudi Arabia, 1985-1986.
- Lecturer at Electrical Engineering Dept., College of Engineering, King Saud University, 1989-1995.
- Assistance Professor at Electrical Engineering Department, King Saud University, Saudi Arabia, July 2000 – March 2005.
- Director of Computer Center at College of Engineering, King Saud University
- Assistance Professor at Electrical Engineering Department, King Saud University, Saudi Arabia, March 2005 - till now.

Teaching Experience

- Principle of Communications
- Data Communications
- Communications Networks
- C-Programming
- Communications Lab
- Basic Electrical Engineering courses
- Computer Math

Research Experience

- Study the effect of rain on propagation of millimeter waves in Riyadh city.
- Design of a new round off technique for adaptive filtering.
- Design of an ATM network simulator.
- Development of error control techniques in ATM and TCP/IP protocols
- Modeling video traffic in broadband networks
- Study of new applications for Mobile systems
- Participating in ATM test bed project at the University of Strathclyde, Glasgow,

Scotland.

Technical Consultants and Projects

- Large scale LAN/WAN projects (Saudi Royal Air Force)
- Video, Voice and Data transport systems ((Saudi Royal Air Force)
- Digital Microwave links (Ministry of Interior)

Membership of Scientific Societies

- Member of IEE
- Member of IEEE
- Member of International Federation of Information Processing (IFIP).

Research Interest

- ATM networks.
- TCP/IP protocols
- Next generation networks
- Voice and video transmission.
- Traffic modeling
- Access techniques (ADSL)
- Power line communications
- Mobile Communications

Publications

Journals

- (1) A. Alheraish, D.G Smith. "Cell rate moderation of VBR video under an FEC environment in ATM networks", *Journal of Computer Network*, Vol. 34, July 2000, pp. 23-35.
- (2) A. Alheraish, D.G Smith, J. Irvine, "A Novel Methodology for Robust VBR Video Transmission in ATM Systems", *The International Journal of Network Management*.
- (3) A. Alheraish and S. Alshebeili, "AR-Based Quadratic Modeling for GOP MPEG-Encoded Video Traffic in ATM Networks" to appear in *Computer Communications Journal*

Refereed Conferences

- (1) A. Alheraish, D.G Smith, "A Hybrid Technique to Improve Cell Loss of MPEG Video Stream over ATM", *Proceedings of the 15th UK Teletraffic Symposium*, University of Durham, Durham, March 1998.
- (2) A. Alheraish, T. Jadoon, D.G. Smith, "The Impact of GCRA's on FEC Protected MPEG Streams over ATM", *6th IEE International Conference on Telecommunication*, Edinburgh, UK, March 1998.
- (3) A. Alheraish, D.G Smith, "Cell Rate Monitoring of MPEG Video Sources under an FEC Environment in Networks", *Proceedings of 6th IFIP on Performance Modelling and Evaluation of ATM Networks*, Ilkely, July 1998.
- (4) A. Alheraish, D.G Smith, T. Jadoon, "Evaluating the FEC protected streams applied to GCRA over ATM", *International Network Conference*, Plymouth, July 1998.
- (5) A. Alheraish, D.G Smith, J. Irvine, "Dynamic FEC scheme for efficient transport of VBR video over ATM networks", *5th Int. Symposium on Communications Theory and applications '99*, Lake District, July 1999.
- (6) A. Alheraish, D.G Smith, J. Irvine. "A DFEC technique for robust VBR video transmission in ATM system", *IEEE International Conference on Communications ICC'2000*, New Orleans, USA, June, 2000.
- (7) A. Alheraish and S. Alshebeili, "A GAMMA SOURCE MODEL FOR FULL MOTION VIDEO USING NON-LINEAR SYSTEMS" to appear in the 10th International conference on Electronics, Circuits, and Systems (ICECS 2003), Dec 2003.

Seminar

A. Alheraish, “Reliable video communications using error control techniques in ATM networks “, a seminar presented at the Electrical Engineering dept, Strathclyde University, Scotland.

Short courses

ATM Networks, KSU, April 2003