

Curriculum Vitae

Contact Information:

Name Tariq Abdulrahman Alshaw
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Personal Information:

Date of Birth 26/2/1408H – October 19,1987
Place of Birth Riyadh, Saudi Arabia
Citizenship Saudi

Education:

B.Sc., Electrical Engineering, King Saud University, Riyadh, Saudi Arabia, 2010.

Work Experience:

- Teaching Assistant, King Saud University, from 2010 till present date.

Projects :

Graduation Project:

- *“Design, Simulation and Implementation of CDMA Interference cancellation detector Using National Instruments Software/ Hardware”*

Status : Ended

This project is concerned with enhancing uplink capacity by implementing interference cancellation structure based CDMA receiver. The advances in such researches could increase 3G system capacity which is mainly bounded by Multi Access Interference (MAI) in uplink channels.

- *“Radio Resource Management in OFDMA based systems”*

Status : Ongoing

This project investigates OFDMA systems in Physical layer including power and frequency allocation and Network layer scheduling algorithms development. The potential advances contributed by this project includes, but not limited to; fast scheduling algorithms which enables users with high velocity to utilize OFDMA systems with acceptable quality of service, efficient utilization of radio resources both in Base station (BS), and Mobile station (MS), improvement of overall throughput of these systems while maintaining an acceptable level of fairness.

Travel:

- Visiting researcher at Wireless Research Group supervised by Prof. Halim Yanikomeroglu at Carleton University, Ottawa, Canada, November 2010.

Training:

- LabVIEW Basics I course, Prince Sultan Advanced Technologies Research Institute, King Saud University, Riyadh, Saudi Arabia, October 2009.
- LabVIEW Basics II course, Prince Sultan Advanced Technologies Research Institute, King Saud University, Riyadh, Saudi Arabia, October 2009.
- Summer Program at Ericsson AB, Training center, Riyadh, Saudi Arabia, 2008.
Includes:
 - GSM/GPRS/EDGE systems.
 - IP Networking.
 - UMTS/HSDPA/LTE systems.
 - AXE/Switching
- Summer Program in Computer Science and Information Technologies, Institute of Public Administration, Riyadh, Saudi Arabia, 2004.
- Computer software programming course, Riyadh Center for the Gifted, Riyadh, Saudi Arabia, 2001.

Awards:

- First Prize in B.Sc. projects competition in KSU funded by Advanced Electronic Company (AEC), Riyadh, Saudi Arabia, 2010.
- Dean's List of Outstanding Students, King Saud University, Riyadh, Saudi Arabia, 2009 and 2010.

- First Prize in Riyadh Region Chemistry Competition, Riyadh, Saudi Arabia, 2003.

Publications:

- *Alshawhi T., Bentrchia A., Elnamaky M., and Alshebeili S.; “Low Complexity FPGA-Implementation of a Reconfigurable SIC Multiuser Detector for Wireless Applications,” 4th International Conference on Signal Processing and Communication Systems (ICSPCS'2010), Australia, 2010 / Status: Accepted.*

Skills:

- Skilled in Programming in C, Assembly, VHDL and LabVIEW.
- Trained to use MATLAB, PSpice and NEC-Win Professional.
- Experienced in FPGA Programming Using Xilinx and LabVIEW.
- Familiar with JAVA, C++ and Object Oriented Programming.
- Practiced in using Microsoft Office package, Adobe Photoshop and other general purpose software solutions.