# Alia Andi

Tripoli / Libya
Phone: 0944314564
alia_eletri@yahoo.com

## EDUCATION

**Ph.D., Electronic and Communication Engineering, Cankaya University, 2019**
Concentrations: coding and information theory.
Dissertation: efficient decoding of polar codes.

**M.A., Electronic and Communication Engineering, The Libyan Academy, 2006**
Concentrations: Microwave and Communication Engineering.
Thesis: *Design and Impleme*ntation of IIR and FIR Digital Filters by Using Software.

**B.A, Electric and Electronic Engineering, Tripoli University, 1997**

## WORK EXPERIENCE

**Associate Professor and Director of the Office of Scientific and Technical Affairs, High Institute of Industrial Technology - Engila, 2020- Until now**
Courses: Antenna and propagation, electromagnetic, comm. Systems.

**Ph.D. Student, Cankaya University, 2014-2019**

**lecturer and head of electric and electronic engineering, High Institute of Industrial**

**Technology - Engila, 2014-2006**
Courses: Antenna and propagation, electromagnetic I, electromagnetic II, comm. Systems, The principle of comm., Digital comm., computer applications (MATLAB course), Supervising graduation projects.

**Teaching Assistant, High Institute of Industrial Technology - Engila, 1999-2006**

**As part time work, Lecturer, Tripoli university, Azawia university and, Naval academy**
Courses: Antenna and propagation, electromagnetic I, electromagnetic II, comm. Systems, The principle of comm., Digital comm., computer applications (MATLAB course), electric network I, electric network II, Supervising graduation projects.

## RESEARCH FILDS

**Digital Signal Process.**
**Coding and Information Theory.**

## PUBLICATIONS

**1- FIR Digital Filter Design by Using Windows Method With MATLAB.**

14th International Conference on Sciences and Techniques of Automatic control & computer Engineering (STA˙2013), December 20-22, Sousse, Tunisia.


**2- Effect of Coefficient Quantization on The   Frequency Response of An IIR Digital Filter By Using Software.**

Published in: Systems Signals and Devices (SSD), 2010 7th International Multi-Conference on, 27-30 June 2010, Jordan, Amman, Publisher: IEEE


**3- FIR Digital Filter Design by Using Frequency Sampling Method.**

10th International Conference on Sciences and Techniques of Automatic control & computer Engineering (STA˙2009), December 20-22, Hammamet, Tunisia.


**4- Implementation and Simulation CDMA System Using MATLAB with Simulink tools.**

The Second International Conference on image & signal processing and their applications, 2010, December 6-8, Biskra, Algeria.


**5- Investigation and simulation of W-CDMA Technique.**

12th International Conference on Sciences and Techniques of Automatic control & computer Engineering (STA˙2011), December 18-20, Sousse, Tunisia.


**6- fast decoding of polar codes using tree structure.**

IET Journal, 2019.


**7- high speed decoding of polar codes.**

10th International exhibition of inventions, China, 2018.

**8- the effect of error propagation on performance of polar codes utilizing SC.**

AEM Journal, 2019.


**9- Improvement of the Performance of Polar Codes by Using Successive Cancellation List Decoding With CRC**
2021 IEEE 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering MI-STA, 25-27 May 2021, Tripoli-Libya

## SKILLS

Programming ability in MATLAB.