

MAHDI BOOZARI

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EDUCATION

2012 - 2015, Sharif University of Technology - Tehran, Iran

M.Sc., Electrical Engineering, Communication Systems (GPA = 15.73)

Thesis Title: Algorithm optimization of indoor specific ultrawideband propagation using appropriate interpolation and sampling

Thesis Supervisor: Dr. A.A Shishegar

2008 - 2012, Ferdowsi University - Mashhad, Iran

B.Sc., Electrical Engineering, Communication Systems (GPA = 17.61)

Thesis Title: Artifacts rejection from EEG with Blind source separation using bell Senjnowski Algorithm

Thesis Supervisor: Dr. Zamiri

2001-2008, National organization for development of exceptional talent (NODET) High School-Mashhad-Iran

Guidance and high school (GPA=19.18)

SKILLS

Programming Languages:

- C++
- Matlab
- Pascal
- Assembly

Engineering Tools:

- Matlab
- Simulink

- Pspice
- Hspice

RESEARCH

- Ray Tracing
- Interpolation and non-uniform sampling.
- Ultrawideband Propagation Modelling
- Radome Design
- Analysis of radome effect on antenna pattern

RELATED EXPERIENCE

- Artifacts rejection from EEG with Blind source separation using bell Senjnowski Algorithm:
 - Application of entropy and mutual information in the ICA algorithm
 - Whitening method and its application
 - Concept of Independent Component Analysis
 - Getting familiar with the biomedical signals
 - Model order estimation
 - blind source separation using second order statistics
 - EEG signal modeling
 - Concept of Principal Component Analysis
- Design of a variable gain amplifier (VGA).
- Designing and simulating an RC oscillator
- Designing and simulating a cascade differential amplifier

- simulating differential amplitude and frequency modulation methods

PUBLICATIONS :

Conference:

- 1) "Indoor Ultrawideband Propagation Modelling Using Chebyshev Interpolation in 60 GHz Band Based on Ray Tracing Technique " , The 3rd Conference on Millimeter Wave and Terahertz Technologies , 30 DEC 2014-1 JAN 2015