

Siavash Sadeghi Ivriigh

CONTACT INFORMATION

Local Address

Cognitive Radio Research Group, Department of Electrical and
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EDUCATION

University of Mazandaran, Babolsar, Mazandaran, Iran

(2003-2008) B.Sc., Department of Electrical Engineering, Faculty of Engineering

- Thesis Topic: *Control and monitoring of the building-instruments with SMS*
- Adviser: Professor Ranjbar N

Area of Study: Electronic Engineering
GPA: 16.37/20

Shahid Beheshti(NODET), Ghaemshahr, Mazandaran, Iran

(1999-2003) Diploma, National Organization for
Development of Exceptional Talents (NODET)

Field: Mathematics and Physics
GPA: 16.68/20

RESEARCH INTERESTS

- Blind Source Separation Methods
- Text Compression
- Cognitive Radio Networks
- Spectrum Sensing Methods
- Source Coding

HONERS AND AWARDS

- Ranked 4th among all B.Sc. Electrical Engineering students based on GPA.
- Stood on 1900th rank in Iran National B.Sc. Entrance Exam among more than 550,000 contestants.

PUBLICATIONS

Conference Papers

- S. Sadeghi Ivriigh, S.M-S. Sadough and S.A. Ghorashi, A Blind Source Separation Technique for Spectrum Sensing in Cognitive Radio Networks Based on Kurtosis Metric, in *IEEE ICCKE2011 (International eConference on Computer and Knowledge Engineering)*, Mashhad, Oct. 2011.
- N. Tafaghodi Khajavi, S. Sadeghi and S.M.S. Sadough, An Improved Blind Spectrum Sensing Technique for Cognitive Radio Systems, in *Proc. 5th IEEE IST2010(International Symposium on Telecommunications)*, Tehran, Dec. 2010.

Journal Papers

- S. Sadeghi Ivrih, S.M-S. Sadough and S.A. Ghorashi, A Blind Source Separation-Based Positioning Algorithm for Cognitive Radio Systems, *Research Journal of Applied Sciences, Engineering and Technology, Maxwell Scientific Organization, Indexed In ISI Thomson* Accepted 2011
- N. Tafaghodi Khajavi, S. Sadeghi Ivrih and S.M-S. Sadough, An Improved Blind Spectrum Sensing Technique for Cognitive Radio Systems *International Journal of Information & Communication Technology (IJICT)*, Accepted 2011
- N. Tafaghodi Khajavi, S. Sadeghi Ivrih, S.M.S. Sadough, A Novel Framework for Spectrum Sensing in Cognitive Radio Networks *IEICE TRANSACTIONS on Communications, Indexed In ISI Thomson, Vol.E94-B, Pages: 2600-2609, Sep. 2010.*

EXPERIENCES

Teaching

- MATLAB, University of science and culture, 2008.
- Mathematic I and Mathematic II, Kanoon Farhangi Amoozesh Institution, 2005.

Teaching Assistantship

- Signals and Systems, Department of Electrical Engineering, Mazandaran University , 2007.
- Telecommunication I, Department of Electrical Engineering, Mazandaran University , 2007.

Research Assistantship

- Cognitive Radio Research Group, Department of Electrical Engineering, Shahid Beheshti (National) University of Iran, 2010.
- Cooperation with Academic Technology Team, "Saman Ertebat Novin," , Roshd Center, Shahid Beheshti University

Work Experience

- Academic advisor in Electrical Engineering Department at Asredanesh Academic free school

Simulations

- Simulation of the Viterbi Algorithm for convolutional coding using MATLAB.
- Simulation of the Different Spectrum Sensing Techniques for Cognitive Radio Networks using MATLAB.
- Simulation of Differential Space Time Trellis Codes using IT++.
- Simulation of Spread Spectrum Communication Techniques with MATLAB

Presentations

- *A Blind Source Separation Technique for Spectrum Sensing in Cognitive Radio Networks Based on Kurtosis Metric* (In English), ICCKE2011, Online Presentation, Mashhad, Iran, Oct, 2011
- *Spectrum Sensing for Cognitive Radio Networks*, Cognitive Radio Research Group, Shahid Beheshti University, Dec, 2011.

SELECTED COURSES

- Computer Programming, 19.50/20, (Ranked 2nd).
- Electrical Circuits I, 19.50/20, (Ranked 1st).
- Electrical Circuits II, 19.50/20, (Ranked 1st).
- Signals & Systems, 19.50/20, (Ranked 1st).
- Telecommunications I, 18.50/20, (Ranked 2nd).

COMPUTER SKILLS

- Language: C++, IT++, Visual Basic
- Technical Languages: MATLAB
- Typography: L^AT_EX, Microsoft Word
- Data Analysis: Microsoft Excel, Microsoft Access
- Operating System: Windows, MacOS X

MEMBERSHIP

- Student member of IEEE, Since 2010.
- Member of Cognitive Telecommunication Research Group, Department of Electrical and Computer Engineering, Shahid Beheshti (National) University of Iran, 2009.

REFERENCES

Available upon request