

In The Name of ALLAH

CURRICULUM VITAE – SEYED HAMID SAFAVI

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PERSONAL INFORMATION

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Date of Birth: September 21, 1988
Place of Birth: Ardabil, Iran
Marital Status: Single
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EDUCATION

Ph.D Student in Electrical Engineering - Communication Systems (2012-Present).

Shahid Beheshti University, Tehran, Iran

Supervisor: [Dr. Farah Torkamani-Azar](#)

Thesis title: *Designing an Efficient Sensing Matrix for Compressive Video Sensing*

Currently, I am a visiting fellow at **Singapore University of Technology and Design (SUTD)** (Dec. 2015-Present)

Master of science in Electrical Engineering - Communication Systems (2010-2012).

K.N.Toosi University of Technology, Tehran, Iran

Supervisor: [Dr. Mehrdad Ardebilipour](#).

Thesis title: *Simulation and Analysis of Beamforming in Cognitive Two-way Relay Networks*.

Bachelor of science in Electrical Engineering (2006-2010).

K.N.Toosi University of Technology, Tehran, Iran

Thesis advisor: Dr. Soheil Salari.

Thesis title: *Simulation and implementation of QAM Modulator on DSK6713*.

Diploma (2006) **National Organization for Development of Exceptional Talents (NODET)**, (mathematics/physics), Ardabil, Iran.

HONORS AND AWARDS

Dr. Shahriari Scholarship, Shahid Beheshti University, 2015

Student Travel Grant, First IEEE Communication Society Summer School, Italy, July 2015

2nd rank in Graduate M.Sc Level. 2012.

Top 0.2 % rank National Graduate Degree Entrance Exam, Iran, 2010.

Top 0.02 % rank National Undergraduate Degree Entrance Exam, Iran, Sep. 2006.

PROFESSIONAL ACTIVITIES	<p>Student Member of Institute of Electrical and Electronics Engineers (IEEE) 2011-present</p> <p>Member of IEEE Communication Society since 2011-present</p> <p>Member of IEEE Signal Processing Society since 2012-present</p> <p>Member of IEEE Information Theory Society since 2013-2014</p> <p>Member of IEEE Vehicular Technology Society since 2013-2014</p>
WORKSHOP PARTICIPATION	<p>The second Visual Image Search and Visual Analytics (VISVA) Summer School, Singapore, July 4-8, 2016.</p> <p>Selected by IEEE Communication Society for participating in the 1st IEEE ComSoc Summer School on wireless communication, Dept. of Information Engineering and Computer Science - University of Trento, Italy, July 6-9, 2015.</p> <p>Workshop on Introduction to Compressive Sensing and Sensing Matrix Designing, 23'th Iranian Conference on Electrical Engineering (ICEE), Sharif university of technology, Tehran, Iran, May 2015.</p> <p>3'rd Iran Workshop on Communication and Information Theory (IWCIT), Sharif University of Technology, Tehran, Iran, 6-7 May, 2015.</p> <p>Workshop on Introduction to LTE and 4G Wireless Networks, 22'th Iranian Conference on Electrical Engineering (ICEE), Shahid Beheshti university, Tehran, Iran, May 2014.</p> <p>2'nd Iran Workshop on Communication and Information Theory (IWCIT), Sharif University of Technology, Tehran, Iran, 7-8 May, 2014.</p> <p>4'th Workshop on Optimization and its Applications, Department of Mathematics, K.N. Toosi University of Technology, Tehran, Iran, May 15, 2012.</p>
PROFESSIONAL SERVICES	<p>Reviewer of IEEE Journal on Selected Areas in Communication(JSAC)</p> <p>Reviewer of IEEE Transactions on Communication (TCOM)</p> <p>Reviewer of IEEE Transactions on Vehicular Technology (TVT)</p> <p>Reviewer of IEEE Wireless Communications Letters (WCL)</p> <p>Reviewer of IET Communication</p> <p>Reviewer of Iranian Conference on Electrical Engineering (ICEE) 2014</p> <p>Reviewer of 9'th Iranian Conference on Machine Vision and Image Processing 2015.</p>
WORK EXPERIENCES	<p>Project co-worker, Iran Telecommunication Research Center (ITRC) June 2014 - December 2015.</p>
TEACHING EXPERIENCES	<p>Digital Communication, Ale Taha University, Summer 2014.</p> <p>Teacher Assistant for Mathematical Engineering, Autumn 2013.</p> <p>Teacher Assistant for Electronic Circuits, spring 2008.</p>

Teacher Assistant for Electronic I, Autumn 2008.

RESEARCH EXPERIENCES

Research Assistant in Cognitive Radio Laboratory, 2012-present
Research Assistant in Spread Spectrum Laboratory, 2011-2012
Research Assistant in WiMax Research Laboratory, 2010
Research Assistant in Electronic Laboratory, Spring 2009.

JOURNAL PAPERS

- **S. H. Safavi**, F. Torkamani-Azar “*A Novel Weighted Compressive Sensing based on Human Visuality of Images*”, Preprint, 2016. [PDF](#)
- N. Abaei, **S. H. Safavi**, F. Torkamani-Azar “*Reweighted Block-Based Compressed Sensing Using Singular Value Decomposition*”, submitted to IEEE Transactions on Circuits and Systems for Video Technology, 2016. [PDF](#)
- **S. H. Safavi**, F. Torkamani-Azar “*Sparsity-Aware Adaptive Block-Based Compressive Sensing*”, IET Signal Processing, In press, 2016. [PDF](#)
- A Montazeri, J Haddadnia, **S. H. Safavi** , “*Fuzzy Hypothesis Testing for Cooperative Sequential Spectrum Sensing Under Noise Uncertainty*”, IEEE Communications Letters, vol. 20, no. 7, July, 2016. [PDF](#)
- **S. H. Safavi**, M. Ardebilipour, S. Salari, “*Relay Beamforming in Cognitive Two-Way Networks With Imperfect Channel State Information*,” IEEE Wireless Communication Letters, vol.1, no. 4, pp. 344-347, Aug 2012. [PDF](#)
[Cited by 41](#)

CONFERENCE PAPERS

- M. Khatua, **S. H. Safavi**, R. Liu, Y. Guo, N.-M. Cheung, “*Sparse Laplacian Component Analysis*,” submitted to the thirtieth annual conference on Neural Information Processing Systems (NIPS), 2016. [PDF](#)
- **S. H. Safavi**, R. Sadegh Zadeh, V. Jamali and S. Salari, “*Interference Minimization Approach for Distributed Beamforming in Cognitive Two-Way Relay Networks*,” IEEE Pacific Rim Conference on Communications, Computers and Signal Processing, Victoria, Canada, 2011. pp. 352-356. [PDF](#) [Cited by 15](#)
- **S. H. Safavi**, M. Ardebilipour, V. Jamali and J. M. Ahmadian, “*Distributed Beamforming for SINR Balancing Approach in Cognitive Two-Way Relay Networks With Imperfect Channel State Information*,” Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2012, pp. 1342-1346. [PDF](#) [Cited by 4](#)
- **S. H. Safavi**, M. Ardebilipour, R. Sadegh Zadeh, and A. Piltan, “*SINR Balancing Approach for Network Beamforming in Cognitive Two-Way Relay Networks*,” 11th International Conference on Hybrid Intelligent Systems. (HIS 2011), Malaca, Malaysia, 2011.pp. 481-485. [PDF](#) [Cited by 2](#)
- V. Jamali, M. Ahmadian, **S. H. Safavi**, and M. Ardebilipour, “*Cooperative Spectrum Sensing in Cognitive Radio Networks under Primary Outage Constraint*,” Iranian Conference on Electrical Engineering (ICEE), Tehran, Iran, May 2012, pp. 1368-1372. [PDF](#) [Cited by 1](#)

- V. Jamali, R. Sadegh Zadeh, **S. H. Safavi** and S. Salari, “*Optimal Cooperative Wideband Spectrum Sensing in Cognitive Radio Networks*,” The Third International Conference on Ubiquitous and Future Networks (ICUFN), Dalian, China, 2011, pp. 371-374 [PDF](#) [Cited by 3](#)
- S. M. Rezvani, **S. H. Safavi**, R. Sadegh Zadeh, A. Haghbin, R. Davarpanah, “*Relay Power Minimization Approach based on General-Rank Beamforming for Multi-Antenna Relaying Schemes*,” 5th International Conference on New Technologies, Mobility and Security (NTMS), 2012, Istanbul, Turkey, 2012. pp. 1-5. [PDF](#) [Cited by 3](#)

Citations are based on Google Scholar.

REFERENCES

- [Prof. Farah Torkamani-Azar](#), Associate Professor of Electrical Engineering, SBU. Email: f-torkamani@sbu.ac.ir
- [Prof. Ngai-Man Cheung](#), Assistant Professor of Electrical Engineering, SUTD. Email: ngaiman_cheung@sutd.edu.sg
- [Prof. Mehrdad Ardebilipour](#), Associate Professor of Electrical Engineering, KNTU. Email: mehrdad@eetd.kntu.ac.ir