

Curriculum Vitae

SHAHRIAR SHIRVANI MOGHADDAM

Grade: **Ph.D. of Electrical Engineering**

Associate Professor of Communications

IEEE Senior Member

Main Expertise: **Wireless Communications,**

Radio Frequency Energy Harvesting

D2D Communications

Cognitive Radio HetNets

Ultra-Dense Networks

Digital Array Signal Processing (DOA estimation)

Job: **Scientific Member of Faculty of Electrical Engineering**

Date and Place of Birth: **27 July 1969, KhorramAbad, Iran.**

Work Postal Address: **Digital Communications Signal Processing Research Lab., Faculty of Electrical Engineering, Shahid Rajaei Teacher Training University, Lavizan, 16788-15811, Tehran, Iran.**

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Scopus: **<https://www.scopus.com/authid/detail.uri?authorId=27467813900>**

WoS Researcher ID: **I-6825-2019**

Publons: **<https://publons.com/researcher/1353998/shahriar-shirvani-moghaddam/>**

LiveDNA: **<https://livedna.net/?dna=98.1085>**

GoogleScholar: **<https://scholar.google.com/citations?user=0CfyOPAAAAAJ&hl=en>**

ResearchGate:

https://www.researchgate.net/profile/Shahriar_Shirvani_moghaddam

Scopus (Mendeley)

h-index: **7**

(167 total citations)

WoS

h-index: **5**

(56 total citations)

GoogleScholar

h-index: **11**

i10-index: **17**

(464 total citations)

ResearchGate

h-index: **11 (7)**

Score: **22.83**

(396 total citations)



EDUCATIONS

1. **Doctor of Philosophy**, Electrical Engineering (1st class honor), Iran University of Science and Technology, May 2001.

Thesis: Simulation, Design and Improvement of Handoff Decision and Handoff Execution in Cellular Communication Systems (Supervisor: Prof. Tabataba Vakili).

2. **Master of Science**, Electrical Engineering-Communications (1st class honor), Islamic Azad University, September 1995.

Thesis: Design and Development of Cellular Communication Systems (Prof. Rezaee).

3. **Bachelor of Science**, Electrical Engineering-Communications, Iran University of Science and Technology, May 1992.

Dissertation: Design and Implementation of Clock Recovery System in Baseband PAM (Supervisor: Prof. Tabataba Vakili).

RESEARCH EXPERTISE

1. Optimization in Wireless Radio Communications
2. Wireless Ultra Dense Networks (UDN)
3. Cognitive Radio Communications
4. D2D Wireless Radio Communications
5. Handover in Cellular Communications and Heterogeneous Networks
6. Power Control and Beamforming in Wireless MIMO and Relay-based Cooperative Comm.
7. Compressed Sensing in Wireless Radio Communications
8. Digital Antenna Array Beamforming (Narrowband/Wideband)
9. Narrowband/Wideband DOA Estimation and Determining the Number of Wireless Radio Sources

ACADEMIC AND RESEARCH WORKS (IN BRIEF)

1. Dean of Faculty of Electrical and Computer Engineering, Shahid Rajaei Teacher Training University (2013-2015)
2. Head of Communications Department, Shahid Rajaei Teacher Training University (2012-2015)
3. Head of Electronics Department, Shahid Rajaei Teacher Training University (2004-2006)
4. Author of 1 book in electrical engineering (In Farsi), 2 books in digital communications (In Farsi), and 2 book chapters in MIMO channel estimation and cognitive radio
5. Editor of a book entitled “Cognitive Radio in 4G/5G wireless Communication Systems.”
6. Scientific editor of a Farsi book entitled “Principles of LED based optical wireless communications.”
7. Lecturer of 14 undergraduate (B.Sc.) Courses
8. Lecturer of 12 graduate (M.Sc. and Ph.D.) courses
9. 34 JCR, ISI, Scopus and ISC Journal Papers
10. 20 other international journal papers

11. 42 International conference papers
12. 24 Local (National) conference papers
13. 19 Research projects for industry and University
14. Presenter of 5 workshops
15. Presenter of 14 academic presentations
16. Supervisor of 3 Ph.D. students
17. Supervisor of 34 M.Sc. students
18. Adviser of 22 M.Sc. students
19. Supervisor of 43 M.Sc. seminars
20. Supervisor of 27 B.Sc. students
21. Supervisor of 3 student research projects
22. Editor in Chief (EiC) of Journal of Electrical and Computer Engineering Innovations (JECEI)
23. Internal or external examiner of more than 132 M.Sc. and Ph.D. theses
24. Reviewer of 259 ISI, ISC and international journals' papers as well as 134 conference papers
25. Session Chair in ISSPIT2015, ICEEM2017, ITS2017.
26. Scientific Chair of 3rd Iranian Conference on Communications Engineering
27. Referee of Kharizmi's festival proposals
28. Reviewer of more than 26 research projects and books
29. Reviewer of more than 40 innovations
30. Senior Member of IEEE and member of scientific societies such as ISCEEE and ISC
31. 11 years engineering experiments in oil and gas communication projects (Off-shore/On-shore)
32. Best researcher and lecturer awards (16).

BOOKS

1. **S. Shirvani Moghadda, "Introduction to Electrical Engineering and Its Subfields (Communications, Control, Electronics, and Power), Winter 2020 (In Farsi).**
2. **S. Shirvani Moghaddam (as the Editor), "Cognitive Radio in 4G/5G Wireless Communication Systems," INTECHOPEN Publisher, DOI: 10.5772/intechopen.74815, ISBN: 978-1-78984-707-9, Print ISBN: 978-1-78984-706-2, 5th December 2018.**
3. **S. Shirvani Moghaddam (as the Scientific Editor), "Principles of LED Based Optical Wireless Communications," Shahid Rajaee Teacher Training University Press, 2017 (In Farsi).**
4. **S. Shirvani Moghaddam, "An Introduction to Digital Communications and Its Applications," Shahid Rajaee Teacher Training University Publishing Center, 1st Edition- Autumn 2008, 2nd Edition- Summer 2013 (In Farsi).**
5. **S. Shirvani Moghaddam, "Introduction to Digital Communications," Publisher of Communications Center of Artesh, Summer 2004 (In Farsi).**

BOOK CHAPTERS

1. **S. Shirvani Moghaddam**, “Cognitive Radio in 4G/5G Wireless Communication Systems,” **Chapter 1, “Introductory: Primary and Secondary Users in Cognitive Radio Based Wireless Communication Systems,”** pp. 1-12, INTECHOPEN Publisher, **2018 (DOI: 10.5772/intechopen.82033)**.
2. **S. Shirvani Moghaddam**, Hossein Saremi, “MIMO Systems, Theory and Applications,” **Chapter 3, “Joint LS Estimation and ML Detection for Flat Fading MIMO Channels,”** pp. 69-86, ISBN: 978-953-307-245-6, INTECH Publisher, April **2011**.

LECTURER OF UNDERGRADUATE COURSES (B.Sc.)

- Introduction to Electrical Engineering
- Digital Communications
- Analog Communications
- Signals and Systems
- Telecommunication Transmission Lines
- Filters and Synthesis
- Electromagnetics
- Electric Circuits 1
- Electric Circuits 2
- Digital Communications Lab.
- Communications Circuits Lab.
- Logic Circuits Lab.
- Electronic 3 Lab.
- Mathematics 1
- Mathematics 2

LECTURER OF GRADUATE COURSES (M.Sc. AND Ph.D.)

- Stochastic Processes
- Advanced Theory of Communications
- Digital Signal Processing
- Digital Communications Signal Processing
- Cryptography
- Wireless Communications
- Satellite Communications
- Mobile Communications
- Cognitive Radio Communications
- Special Issues in Digital Communications
- Special Issues in Wireless Communications
- Special Issues in Communications (Linear Algebra + Optimization)

JCR, ISI, SCOPUS AND ISC JOURNAL PAPERS

1. M. Alibeigi, **S. Shirvani Moghaddam**, “**Sum-Rate Optimization Constrained by Consumed Power in Multi-Antenna Non-Regenerative Relay Network,**” International Journal of Sensors, Wireless Communications and Control (SWCC), (Scopus), Vol. 10, No. 2, pp. , **2020 (DOI: 10.2174/2210327909666190219125535)**.
2. **S. Shirvani Moghaddam**, “**Outage Analysis of Energy Harvested Direct/Relay-Aided Device-to-Device Communications in Nakagami Channel,**” Journal of Communications Software and Systems (JCOMSS), Vol. 14, No. 4, pp. 302-311, December **2018 (DOI: 10.24138/jcomss.v14i4.490)**.
3. **S. Shirvani Moghaddam**, A. Habibzadeh, “**Cooperative Spectrum Sensing Based on Generalized Likelihood Ratio Test for Cognitive Radio Channels with Unknown Primary User’s Power and Colored Noise,**” International Journal of Sensors, Wireless Communications and Control (SWCC), Vol. 8, No. 3, pp. 204-216, September **2018 (DOI: 10.2174/2210327908666180730092433)**.
4. **S. Shirvani Moghaddam**, H. Ghavami, “**Joint Mode Selection and Resource Allocation in Device-to-Device Communications,**” International Journal of Sensors, Wireless Communications and Control (SWCC), Vol. 8, No. 4, pp. 217-227, September **2018 (DOI: 10.2174/2210327908666180808115057)** .

5. **S. Shirvani Moghaddam**, “**Outage Analysis of Non-Orthogonal In-Band Relay-Aided Device-to-Device Communications in Rayleigh Fading Channels**,” *Internet Technology Letters (ITL)*, Wiley, Vol. 1, No. 2, March-April 2018 (DOI: 10.1002/itl2.8).
6. A. Habibzadeh, **S. Shirvani Moghaddam**, S.M. Razavizadeh, and M. Shirvanimoghaddam, “**Modeling and Analysis of Traffic-aware Spectrum Handover Schemes in Cognitive HetNets**,” *Transactions on Emerging Telecommunications Technologies (ETT)*, Wiley, Vol. 28, No. 12, Dec. 2017 (DOI: 10.1002/ett.3199).
7. M. Alibeigi, **S. Shirvani Moghaddm**, “**Sum-Rate Maximization Based on Power Constraints for Cooperative AF Relay Networks**,” *Journal of Communications Engineering (JCE)*, Vol. 6, No. 1, pp. 1-25, Jan.-June 2017 (DOI: 10.22070/jce.2017.1688.1003).
8. A. Habibzadeh, **S. Shirvani Moghaddm**, M. Razavizadeh, M. Shirvani Moghaddam, “**Analysis and Performance Evaluation of an Efficient Handover Algorithm for Cognitive HetNets**,” *International Journal of Communication Systems (IJCS)*, Wiley, Vol. 30, No. 16, Nov. 2017 (DOI: 10.1002/dac.3315).
9. **S. Shirvani Moghaddam**, R. Jalili Danaloo, “**Radio Identification of Primary Users Based on Cooperative Compressed Sensing**,” *Tabriz Journal of Electrical Eng.*, Vol. 47, No. 4, pp. 1551-1561, 2018 (In Farsi).
10. H. Ghavami, **S. Shirvani Moghaddam**, “**Outage Probability of Device to Device Communications Underlying Cellular Network in Suzuki Fading Channel**,” *IEEE Communications Letters*, Vol. 21, No. 5, pp. 1203-1206, May 2017 (DOI: 10.1109/LCOMM.2017.2655042).
11. H. Ghavami, **S. Shirvani Moghaddam**, “**Analysis of Outage Probability for In-Band Device to Device Communications Underlying Cellular Network**,” *International Journal of Communication Systems (IJCS)*, Wiley, Vol. 30, No. 14, pp. 1-8, Feb. 2017 (DOI: 10.1002/dac.3286).
12. **Shahriar Shirvani Moghaddam**, Akbar Keshavarz Nasab, “**A Low-Complex Setup for DOA Estimation of Coherent Signals of Unknown Sources Located at Endfire Angles**,” *Journal of Radar*, Vol. 4, No. 1, pp. 15-25, Spring 2016 (In Farsi).
13. **S. Shirvani Moghaddam**, F. Akbari, “**A New Switched-beam Setup for Adaptive Antenna Array Beamforming**,” *Journal of Information Systems and Telecommunication*, Vol. 4, No. 1 , pp. 1-10, 2016 (DOI: 10.7508/jist.2016.01.001).
14. **S. Shirvani Moghaddam**, M .Alibeigi, “**Joint Power Control and Beamforming in MIMO Relays**,” *COMPEL*, Vol. 35, No. 1, pp. 102-116, 2016 (DOI: 10.1108/COMPEL-11-2014-0309).
15. **S. Shirvani Moghaddam**, Z. Ebadi, and V. Tabataba Vakili, “**A Novel DOA Estimation Approach for Unknown Coherent Source Groups with Coherent Signals**,” *Iranian Journal of Electrical and Electronic Engineering*, Vol. 11, No. 1, pp. 8-16, Feb. 2015 (DOI: 10.22068/IJEEE.11.1.8).
16. **S. Shirvani Moghaddam**, S. Alamsi Monfared, “**Interference Elimination and Direction-Of-Arrival Estimation of Wideband Cyclostationary Communication Signals**,” *Journal of Soft Computing and Information Technology*, Vol. 3, No. 2, pp. 9-20, Summer 2014 (In Farsi).

17. **S. Shirvani Moghaddam, A. Janan, "Performance Evaluation of 2-D DOA Estimation Algorithms in Noisy Channels,"** International Journal of Sensors, Wireless Communications and Control (SWCC), Vol. 3, No. 2, pp. 95-100, May 2014 (DOI: 10.2174/2210327903999140103101550).
18. **S. Shirvani Moghaddam, S. Jalaei, "A New Method for Detecting the Number of Coherent Sources in the Presence of Colored Noise,"** Journal of Information Systems and Telecommunication (JIST), Vol. 1, No. 3, pp. 55-60, July/Sept. 2013 (DOI : 10.7508/jist.2013.03.007).
19. **S. Shirvani Moghaddam, "Modeling the Environmental Effects on the Radiated Fields of a Passive RFID System,"** International Journal of Applied Electromagnetics and Mechanics (IJAEM), Vol. 42, pp. 539-559, Summer 2013 (DOI: 10.3233/JAE-131683).
20. **S. Shirvani Moghaddam, H. Sadeghi, "Performance Evaluation of CCM-based Antenna Array Beamforming,"** Iranian Journal of Electrical and Computer Engineering (IJECE), Vol. 11, No. 2, pp. 77-84, Summer/Fall 2012.
21. **S. Shirvani Moghaddam, Z. Ebadi, and V. Tabataba Vakili, "Modified FOC-based Root-MUSIC Algorithm for DOA Estimation of Coherent Signal Groups,"** Life Science Journal, Vol. 10, No. 1, pp. 843-846, 2013.
22. **S. Shirvani Moghaddam, F. Akbari, "Efficient Narrowband Direction of Arrival Estimation Based on a Combination of Uniform Linear / Shirvani-Akbari Arrays,"** International Journal of Antennas and Propagation (IJAP), Hindawi, Sept. 2012 (DOI: 10.1155/2012/280845).
23. **F. Eshagh Hosseini, S. Shirvani Moghaddam, "Controlling Initial and Final Radii to Achieve a Low-complexity Sphere Decoding Technique in MIMO Channels,"** International Journal of Antennas and Propagation (IJAP), Hindawi, Feb. 2012 (DOI: 10.1155/2012/192964).
24. **S. Shirvani Moghaddam, H. Sadeghi, "A New Combination of RAKE Receiver and Adaptive Antenna Array Beamformer for Multi User Detection in WCDMA Systems,"** International Journal of Antennas and Propagation (IJAP), Hindawi, August 2011 (DOI: 10.1155/2011/208301).
25. **S. Shirvani Moghaddam, F. Akbari, "A Novel ULA-based Geometry for Improving AOA Estimation,"** EURASIP Journal on Advances in Signal Processing, Springer, Vol. 2011: 39, Aug. 2011 (DOI: 10.1186/1687-6180-2011-39).
26. **S. Shirvani Moghaddam, M. Shirvani Moghaddam, "A Comprehensive Survey on Antenna Array Signal Processing,"** Invited Paper, Journal of Trends in Applied Sciences Research, Vol. 6, No. 6, pp. 507-536, 2011 (DOI: 10.3923/tasr.2011.507.536).
27. **S. Shirvani Moghaddam, S. Almasi Monfared, "A Comprehensive Performance Study of Narrowband DOA Estimation Algorithms,"** International Journal on Communications Antenna and Propagation (IRECAP), Vol. 1, No. 4, pp. 396-405, August 2011.
28. **S. Shirvani Moghaddam, N. Solgi, "A Comparative Study on TDL and SDL Structures for Wideband Antenna Array Beamforming,"** International Journal on Communications Antenna and Propagation (IRECAP), Vol. 1, No. 4, pp. 388-395, August 2011.

29. V. Tabataba Vakili, **S. Shirvani Moghaddam**, A. Mohebbi, D. Abbasi Moghaddam, “**Noncoherent Weighted Detection for Time Reversal UWB Systems: Energy and Kurtosis Detectors**,” International Journal on Communications Antenna and Propagation (IRECAP), Vol. 1, No. 2, pp. 174-181, April **2011**.
30. H. Nooralizadeh, **S. Shirvani Moghaddam**, “**Appropriate Algorithms for Estimating Frequency-Selective Rician MIMO Channels and its Rice Factor: Substantial Benefits of Rician Model and Estimator Tradeoffs**,” EURASIP Journal on Wireless Communications and Networking (WCN), Hindawi, Vol. **2010**, Article ID: 753637, 14 pages (DOI: [10.1155/2010/753637](https://doi.org/10.1155/2010/753637)).
31. **S. Shirvani Moghaddam**, H. Saremi, “**A Novel Semi-Blind Channel Estimation Scheme for Rayleigh Flat Fading MIMO Channels (Joint LS Estimation and ML Detection)**,” IETE Journal of Research, Vol. 56, Issue 4, pp. 193-201, July/Aug. **2010**.
32. H. Nooralizadeh, **S. Shirvani Moghaddam**, “**A Novel Shifted Type of SLS Estimator for Estimation of Rician Flat Fading MIMO Channels**,” Elsevier Signal Processing, Vol. 90, No. 6, pp. 1886-1893, **2010** (DOI: [10.1016/j.sigpro.2009.12.009](https://doi.org/10.1016/j.sigpro.2009.12.009)).
33. M. Dashti, M. Abtahi, and **S. Shirvani Moghaddam**, “**Performance Evaluation of Direct Sequence Ultra Wide Band (DS-UWB) Technique in Multipath Fading Channels**,” Iranian Journal of Electrical and Computer Engineering, Vol. 3, No. 2, pp. 89-95, Fall/Winter **2005** (In Farsi).
34. **S. Shirvani Moghaddam**, V. Tabataba Vakili, “**Handoff Initiation in Cellular Mobile Communication Systems**,” International Journal of Engineering Sciences (IUST), Vol. 13, No. 1, pp.117-137, **2002**.

INTERNATIONAL JOURNAL PAPERS

1. S. Jalaei, **S. Shirvani Moghaddam**, “**Estimating the Number of Wideband Radio Sources**,” Journal of Electrical and Computer Engineering Innovations (JECIEI), Vol. 4, No. 1, pp. 25-30, **2016**
2. **S. Shirvani Moghaddam**, M. Kamarzarin, “**A Comparative Study on the Two Popular Cognitive Radio Spectrum Sensing Methods: Matched Filter versus Energy Detector**,” American Journal of Mobile systems, Applications and Services, Vol. 1, No. 2, pp. 132-139, Oct. **2015**.
3. **S. Shirvani Moghaddam**, F. Baramaki Yazdi, “**Bit Error Rate Evaluation for Different Relay Selection Schemes in Decode-and-Forward Two-Way Relay Networks**,” International Journal of Research Studies in Electrical and Electronics Engineering, Vol. 1, No. 1, pp. 35-41, August **2015**.
4. **S. Shirvani Moghaddam**, M. Alibeigi, “**Sum Rate Maximization Based on Joint Power Control and Beamforming in MIMO One Way AF Relay Networks**,” British Journal of Applied Science and Technology (BJAST), Vol. 5, No. 3, pp. 285-296, Jan. **2015** (DOI: [10.973/BJAST/2015/13115](https://doi.org/10.973/BJAST/2015/13115)).
5. **S. Shirvani Moghaddam**, M. Alibeigi, “**SNR Maximization Based on Joint Power Control and Beamforming for AF Relay Network**,” Journal of Mobile Computing (MC), Vol. 3, pp. 13-17, **2014**.
6. **S. Shirvani Moghaddam**, F. Baramaki Yazdi, “**A New Modification on Relay Selection by Considering the Effect of Relay Occupancy**,” Journal of Scientific Research and Reports (JSRR), Vol. 4, No. 3, pp. 241-252, Feb. **2015** (DOI: [10.973/JSRR/2015/13002](https://doi.org/10.973/JSRR/2015/13002)).
7. **S. Shirvani Moghaddam**, F. Baramaki Yazdi, “**Performance Evaluation of Relay Selection Schemes in Two-Way AF Relay Networks**,” International Journal of Comm., Vol. 3, No. 1, pp. 42-47, **2014**.

8. **S. Shirvani Moghaddam, M.R. Pishgoo, "New Ideas to Improve the Performance of Frequency Invariant Wideband Antenna Array Beamforming,"** Majlesi Journal of Telecommunication Devices, Vol. 2, No. 4, pp. 135-140, Dec. **2013**.
9. **S. Shirvani Moghaddam, A. Keshavarz Nasab, "A New Threshold-based JADE-MUSIC Algorithm for DOA Estimation of Unknown Signal Groups,"** Journal of Electrical and Control Engineering (JECE), Vol. 3, No. 6, pp. 17-22, Nov./Dec. **2013**.
10. **S. Shirvani Moghaddam, S. Jalaei, "Determining the Number of Coherent Sources Using FBSS-based Methods,"** Frontiers in Science, Vol. 2, No. 6, pp. 203-208, Dec. **2012**.
11. **S. Shirvani Moghaddam, F. Akbari, "Improving LMS/NLMS-Based Beamforming Using Shirvani-Akbari Array,"** American Journal of Signal Processing (AJSP), Vol. 2, No. 4, pp. 70-75, August **2012** (DOI: 10.5923/j.ajsp.20120204.03).
12. **S. Shirvani Moghaddam, M. Shirvani Moghaddam, "Speed-Sensitive Weighting Algorithm for Digital Beamforming of Adaptive Antenna Arrays,"** Wireless Engineering and Technology (WET), Vol. 2, No. 3, pp. 165-174, July **2011**.
13. **S. Shirvani Moghaddam, M. Shirvani Moghaddam, "A New On-Line/Off-Line Adaptive Antenna Array Beamformer for Tracking the Mobile Targets,"** International Journal of Communications, Network and System Sciences (IJCNS), Vol. 4, No. 5, pp. 304-312, May **2011**.
14. **R. Farhadi, V. Tabataba Vakili, and S. Shirvani Moghaddam, "A Novel Cross-Layer Scheduling Algorithm for OFDMA-Based WiMAX Networks,"** International Journal of Communications, Network and System Sciences (IJCNS), Vol. 4, No. 2, pp. 98-103, Feb. **2011**.
15. **H. Nooralizadeh, S. Shirvani Moghaddam, "Performance Improvement in Estimation of Spatially Correlated Fading MIMO Channels Using a New LMMSE Estimator,"** International Journal of Communications, Network and System Sciences (IJCNS), Vol. 3, No. 12, pp. 1-10, Dec. **2010**.
16. **S. Shirvani Moghaddam, M. Shahmoradi Ghahe, "Performance Evaluation of Mobile Ad-Hoc Network Based on DSR Routing Protocol,"** Journal of Electrical Engineering Science, Islamic Azad University, South Tehran Branch, Vol. 1, No. 1, pp. 41-51, **2010**.
17. **M. Jalali, S. Shirvani Moghaddam, H. Aminelahi, "Evaluation of Angular Accuracy of ML, MUSIC, Root-MUSIC and Spatial Smoothing Methods for Direction Of Arrival (DOA) Estimation,"** Technology and Education Journal of Shahid Rajaei Teacher Training University, Vol. 1, No. 4, pp. 197-204, Summer **2007** (In Farsi).
18. **V. Tabataba Vakili, S. Shirvani Moghaddam, "A Novel Handoff Prioritization Scheme Based on Propagation and Traffic Criteria,"** Technology and Education Journal of Shahid Rajaei Teacher Training University, Vol. 1, No. 2, pp. 29-35, Winter **2007**.
19. **S. Shirvani Moghaddam, H. Nooralizadeh, A.H. Khodadadi, "Traffic Prioritization in Cellular Mobile Communication Systems,"** Technology and Education Journal of Shahid Rajaei Teacher Training University, Vol. 1, No. 1, pp. 37-50, Autumn **2006** (In Farsi).

20. **S. Shirvani Moghaddam, V. Tabataba Vakili, "Improvement of Handoff in Cellular Mobile Communication Systems,"** Islamic Azad University Seasonal Journal of Sciences and Engineering, Vol. 1, No. 1, pp. 23-34, Winter **1999** (In Farsi).

INTERNATIONAL CONFERENCE PAPERS

1. **S. Shirvani Moghaddam, M. Shirvanimoghaddam, and A. Habibzadeh, "Clustering-based Handover and Resource Allocation Schemes for Cognitive Radio Heterogeneous Networks,"** The 28th International Telecommunication Networks and Applications Conference (ITNAC2018), UNSW, Sydney, Australia, Nov. **2018**.
2. **S. Shirvani Moghaddam, M. Ghasemi, "Efficient Clustering for Multicast Device-to-Device Communications,"** 7th International Conference on Computer and Communication Engineering (ICCCE2018), IIUM, Kuala Lumpur, Malaysia, pp. 228-233, September **2018** (DOI: **10.1109/ICCCE.2018.8539276**).
3. **S. Shirvani Moghaddam, M. Ghasemi, "A Low-complex/High-throughput Resource Allocation for Multicast D2D Communications,"** 7th International Conference on Computer and Communication Engineering (ICCCE2018), Kuala Lumpur, Malaysia, pp. 234-239, September **2018** (DOI: **10.1109/ICCCE.2018.8539307**).
4. **S. Shirvani Moghaddam, "A Novel Resource Reuse in Device to Device Communications,"** Internet Technologies and Society (ITS2017) Conference, proceedings of IADIS digital library, pp. 35-42, Sydney, Australia, 11-13 Dec. **2017**.
5. **Z. Ebadi, S. Shirvani Moghaddam, "Modified Rotational Signal Subspace Algorithm,"** International IEEE Conference on Wireless Communications, Signal Processing and Networking (WiSPNET2017), Chennai, India, pp. 2557-2560, 22-24 March **2017** (DOI: **10.1109/WiSPNET.2017.8300224**).
6. **H. Ghavami, S. Shirvani Moghaddam, "Outage Probability for Underlying Device to Device Communications,"** International Symposium on Telecommunications (IST2016), Tehran, Iran, 27-28 Sept. **2016** (DOI: **10.1109/ISTEL.2016.7881839**).
7. **A. Habibzadeh, S. Shirvani Moghaddam, M. Razavizadeh, and M. Shirvanimoghaddam, "A Spectrum Handover Mechanism for Secondary Users in Cognitive Femtocell HetNets,"** Iranian Conference on Electrical Engineering (ICEE2016), Shiraz, Iran, pp. 442-446, 10-12 May **2016** (DOI: **10.1109/IranianCEE.2016.7585562**).
8. **A. Habibzadeh, S. Shirvani Moghaddam, "Noise Calibrated GLRT-based Spectrum Sensing Method for Cognitive Radio Applications,"** The 15th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), Abu Dhabi, UAE, pp. 174-179, 7-10 Dec. **2015** (DOI: **10.1109/ISSPIT.2015.7394322**).
9. **A. Habibzadeh, S. Shirvani Moghaddam, M. Razavizadeh, and M. Shirvani Moghaddam, "A Novel Handover Decision-Making Algorithm for HetNets,"** The 15th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), Abu Dhabi, UAE, pp. 438-442, 7-10 Dec. **2015** (DOI: **10.1109/ISSPIT.2015.7394375**).

10. **S. Shirvani Moghaddam**, R. Jalili Danaloo, “**Cooperative Compressed Sensing for Joint Terminal Localization and Spectrum Sensing**,” The 15th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), Abu Dhabi, UAE, pp. 203-208, 7-10 Dec. **2015** (DOI: **10.1109/ISSPIT.2015.7394328**).
11. A. Farjami, V. Tabataba Vakili, and **S. Shirvani Moghaddam**, “**A Simple Relay Selection Algorithm in Multi User OFDM Based Cooperative CR Networks**,” International Symposium on Telecommunications (IST2014), Tehran, Iran, pp. 118-122, 9-11 Sept. **2014** (DOI: 10.1109/ISTEL.2014.7000681).
12. **S. Shirvani Moghaddam**, N. Solgi, “**New Approach on TDL-based Wideband Antenna Beamforming for Radio Sources Close to the Endfire**,” 20th Iranian Conference on Electrical Engineering (ICEE2012), Tehran, Iran, pp. 1108-1113, 15-17 May **2012** (DOI: **10.1109/IranianCEE.2012.6292520**).
13. **S. Shirvani Moghaddam**, F. Akbari, and V. Tabataba Vakili, “**A Novel Array Geometry to Improve DOA Estimation of Narrowband Sources at the Angles Close to the Array Endfire**,” 19th Iranian Conference on Electrical Engineering (ICEE2011), Tehran, Iran, pp. 1-6, 17-19 May **2011** (INSPEC No. 12121116).
14. H. Nooralizadeh, **S. Shirvani Moghaddam**, “**Single and Multiple Estimation in MIMO Rician Fading Channels**,” 2011 International Conference on Computer Communication and Management (ICCCM), Sydney, Australia, Proceedings of CSIT, Vol. 5, pp. 481-487, May **2011**.
15. R. Farhadi, V. Tabataba Vakili, and **S. Shirvani Moghaddam**, “**A Comparative Study of Scheduling Algorithms for OFDMA-based WiMAX Networks**,” 2011 IEEE 3rd International Conference on Communication Software and Networks (ICCSN), Xi’an, China, pp. 355-359, May **2011**.
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18. A. Mohebbi, **S. Shirvani Moghaddam**, D. Abbasi Moghaddam, and V. Tabataba Vakili, “**Performance Enhancement of Kurtosis Detector Using Time Reversal Technique**,” 5th International Symposium on Telecommunications (IST2010), Tehran, Iran, pp. 120-125, Dec. **2010**.
19. Z. Bakhti, **S. Shirvani Moghaddam**, “**Inter-cell Interference Coordination with Adaptive Frequency-reuse for VoIP and Data Traffic in Downlink of 3GPP-LTE**,” The 4th IEEE International Conference on Application of Information and Communication Technologies (AICT2010), Tashkent, Uzbekistan, pp. 1-6, Oct. **2010**.
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21. A. Rashedi, S. Shirvani Moghaddam, “**Appropriate Farsi Speech Recognizer for Commanding Robots (Performance Evaluation of Correlation-based and Model-based Classifiers for a Farsi Isolated Word Recognition Robotic System),**” 10th IEEE International Conference on Signal Processing (ICSP2010), Beijing, China, pp. 573-576, October 2010.
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23. S. Shirvani Moghaddam, M. Shirvani Moghaddam, and R. Kalami Rad, “**A Novel Adaptive LMS-based Algorithm Considering Relative Velocity of Source,**” IEEE, IET International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP2010), pp. 10-14, Newcastle, England, July 2010.
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35. **S. Shirvani Moghaddam**, V. Tabataba Vakili, “**Handoff Initiation Schemes Based on Received Power Variation Rates**,” 1st International Symposium on Telecommunications (IST2001), Iran, Tehran, pp.11-15, Sept. **2001**.
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LOCAL CONFERENCE PAPERS

1. M.R. Parvizi, S. Shirvani Moghaddam, “**Performance Improvement of Device to Device Communications Based on User's Location in One-Cell Structure,**” The 3rd Iranian Conference on Communications Engineering (ICCE2017), Tehran, Iran, Feb. 2017 (In Farsi).
2. K. Chamanzadeh, S. Shirvani Moghaddam, “**Energy-Efficient Device to Device Communications Using Proper Mode Selection Based on Coalition Game Method,**” The 3rd Iranian Conference on Communications Engineering (ICCE2017), Tehran, Iran, Feb. 2017 (In Farsi).
3. S. Shirvani Moghaddam, E. Abedi, “**A Low-Complex Cyclostationary Signal Detector for Cognitive Radio Communications,**” The 4th Iranian Conference on Engineering Electromagnetics, Noshahr, Iran, April 2016.
4. F. Geran, S. Shirvani Moghaddam, M. Agha Mohammadai, “**Compensation of Mutual Coupling of Dipole Array Antenna for Direction of Arrival Estimation,**” The 4th Iranian Conference on Engineering Electromagnetics, Noshahr, Iran, April 2016 (In Farsi).
5. H. Ghavami, S. Shirvani Moghaddam, “**Outage Probability of Underlay/Overlay Device to Device Communications,**” The 2nd Iranian Conference on Communications Engineering (ICCE2016), Shiraz, Iran, Feb. 2016 (In Farsi).
6. S. Shirvani Moghaddam, R. Jalili Danaloo, “**The Comparison of Reconstruction Algorithms Performance in Spectrum Sensing of Digital Signal with Two Level Phase Shift Keying,**” The 3rd National Conference and 1st International Conference on Applied Research in Electrical, Mechanical and Mechatronics Engineering, Tehran, Iran, Feb. 2016 (In Farsi).
7. Z. Ebadi, S. Shirvani Moghaddam, and M. Modaresi, “**Improved Khatri-Rao Algorithm for DOA Estimation of Quasi-stationary Signals in Large Arrays,**” 7th Iranian Conference on Electrical and Electronics Engineering (ICEEE), Gonabad, Iran, August 2015.
8. F. Geran, S. Shirvani Moghaddam, A. Azizian, “**Study of Signal Diffraction in a Retail Environment in 60GHz Frequency Band,**” The 3rd Iranian Conference on Engineering Electromagnetics, Tehran, Iran, Nov. 2014 (In Farsi).
9. S. Shirvani Moghaddam, M.R. Pishgoo, and A. Izadi, “**Evaluation and Comparison of 1-D and 2-D Patterns of Popular Antenna Arrays in Adaptive Beamforming and Direction of Arrival Estimation,**” Majlesi 2nd International Symposium on Telecomm. Devices (MIST), July 2013 (In Farsi).
10. S. Shirvani Moghaddam, M.R. Pishgoo, “**New Ideas to Improve the Performance of Frequency Invariant Wideband Antenna Array Beamforming,**” Majlesi 2nd International Symposium on Telecommunication Devices (MIST), July 2013.
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12. S. Shirvani Moghaddam, S. Almasi Monfared, “**Interference Elimination and Direction-Of-Arrival Estimation of Wideband Cyclostationary Signals,**” National Conference on New Idea on Electrical Engineering (NCNIEE), Isfahan, Iran, Sept. 2012 (In Farsi).

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14. **S. Shirvani Moghaddam**, Z. Ebadi, V. Tabataba Vakili, “**Direction of Arrival Estimation of Quasi-Static Signals Using Khatri-Rao Method Based on 4th Order Cumulants,**” The 1st National Conference on Marine War Management Sciences, Technologies and Systems, Tehran, Iran, Sept. **2012** (In Farsi).
15. M. Kamarzarrin, **S. Shirvani Moghaddam**, “**Education of Features Extraction of Signals By Using MATLAB Software,**” 4th National Conference on Education, May **2012** (In Farsi).
16. **S. Shirvani Moghaddam**, A. Keshavarz Nasab, “**Angular Separation of Coherent Radio Signals Due to Multipath Effect,**” 5th National Conference on Electronic War, Tehran, Iran, Jan. **2012** (In Farsi).
17. **S. Shirvani Moghaddam**, A. Keshavarz Nasab, “**Determining the Number of Non-Coherent Sources and Coherent Signals Separation Based on 4th Order Cumulants,**” 5th National Conference on Electronic War, Tehran, Iran, Jan. **2012** (In Farsi).
18. A.R. Vizandan, **S. Shirvani Moghaddam**, “**Antenna Array Beamforming in CDMA Systems Using Smart Antennas,**” 5th National Conference on Electronic War, Tehran, Iran, Jan. **2012** (In Farsi).
19. **S. Shirvani Moghaddam**, N. Solgi, “**Improvement of Wideband TDL-Based and SDL-Based Antenna Array Beamforming Structures Using Adaptive Step Size Algorithms,**” 5th National Conference on Electronic War, Tehran, Iran, Jan. **2012** (In Farsi).
20. **S. Shirvani Moghaddam**, N. Solgi, “**Realization of Wideband SDL-Based Antenna Array Beamforming Appropriate for Radio Sources Located in Array Endfire,**” 1st National Conference on Passive Care Systems, Shiraz, Iran, Dec. **2011** (In Farsi).
21. **S. Shirvani Moghaddam**, “**How to Find Higher Performance in University Courses? (Research-based Education),**” 3rd National Conference on Education, May **2011**.
22. **S. Shirvani Moghaddam**, “**MATLAB as a Simulation Tool for Learning Scientific Fundamentals and Theorems,**” 3rd National Conference on Education, May **2011**.
23. **S. Shirvani Moghaddam**, “**Optimum Usage of Electrical Energy in Communication Systems (Radio Resource Management),**” 1st National Conference on Correction of Electrical Energy Usage Pattern, Ahwaz, Iran, Feb. **2010** (In Farsi).
24. **S. Shirvani Moghaddam**, “**Decreasing Electrical Energy Using Antenna Array Beamforming in Wireless Radio Communications,**” 1st National Conference on Correction of Electrical Energy Usage Pattern, Ahwaz, Iran, Feb. **2010** (In Farsi).

RESEARCH PROJECTS

1. **S. Shirvani Moghaddam**, "Review of Data Sorting Algorithms and Proposing an Algorithm Based on Mean Value," Shahid Rajaei Teacher Training University, In Progress.
2. **S. Shirvani Moghaddam**, "Design, Software Simulation and Hardware Implementation of Digital Communications Circuits on Bread Board," Shahid Rajaei Teacher Training University, February **2020**.

3. **S. Shirvani Moghaddam, H. Ghavami, "Performance Evaluation of Underlay/Overlay D2D Communications,"** Shahid Rajae Teacher Training University, December 2018.
4. **S. Shirvani Moghaddam, A. Habibzadeh, "GLRT Algorithm for Radio Spectrum Sensing in the Presence of Color Noise,"** Shahid Rajae Teacher Training University, Aug. 2018.
5. **S. Shirvani Moghaddam, "Non-blind Narrowband Adaptive Antenna Array Beamforming Based on Signal Direction of Arrival (DOA),"** Shahid Rajae Teacher Training University, Jan. 2016.
6. **S. Shirvani Moghaddam, "Modeling and Determining the Electric and Magnetic Fields of Circular Loop Antenna Considering the Envir. Effects,"** Shahid Rajae Teacher Train. Univ., 2013.
7. **S. Shirvani Moghaddam, "DOA Estimation of Narrowband Communication Signals Using A New Uniform Linear Array with Two Additional Elements,"** Shahid Rajae Teacher Train. Univ., 2011.
8. **H. Nooralizadeh, S. Shirvani Moghaddam, "A New Algorithm to Find the K-factor for Optimum Estimation of Multi-Input Multi-Output Rician Communication Channels,"** Azad Univ., 2011.
9. **S. Shirvani Moghaddam, "Feasibility Study of Digital Communications Laboratory,"** Shahid Rajae Teacher Training University, Feb. 2011.
10. **H. Nooralizadeh, S. Shirvani Moghaddam, "Channel Estimation in Multi-Antenna Communication Systems,"** Azad University, Oct. 2010.
11. **S. Shirvani Moghaddam, "Software Package of Fixed Beam Array Antennas,"** Shahid Rajae Teacher Training University, Sept. 2010.
12. **S. Shirvani Moghaddam, "Channel Estimation in Multi-Input Multi-Output (MIMO) Communication Systems,"** Shahid Rajae Teacher Training University, July 2009.
13. **S. Shirvani Moghaddam, M. Sheikhan, Mohammad Heibati, "Internal Mapping of Communication Technologies: Communication Terminals,"** High Tech. Center, Jan. 2005.
14. **H.R. Jamali, S. Shirvani Moghaddam, R. Talebi, "Internal Mapping of Communication Technologies: Wireless Access (Mobile),"** High Tech. Center, Jan. 2005.
15. **S. Shirvani Moghaddam, M. Sheikhan, M. Heibati, "Internal Mapping of Communication Technologies: Downstream Communication Items,"** High Tech. Center, Jan. 2005.
16. **S. Shirvani Moghaddam, "Mobile Communications,"** High Tech. Center, July 2002.
17. **S. Shirvani Moghaddam, "Digital Audio and Video Broadcasting,"** High Tech. Center, Jan. 2003.

SUPERVISOR OF STUDENT RESEARCH PROJECTS

1. **"GUI-Based Simulator for TDL and SDL Antenna Beamfoming Structures,"** by: Nasrollah Solgi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Dec. 2011.
2. **"GUI-Based Simulator for Direction Of Arrival (DOA) Estimation of Narrowband Communication Signals,"** by: Sakineh Almasi Monfared, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Sept. 2011.
3. **"Implementation of 2-Level Digital Modulations on Printed Circuit Board (PCB),"** by: Mohammad Noori, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training Univ., 2011.

WORKSHOPS

1. **S. Shirvani Moghaddam, M. Shirvani Moghaddam, "Signal Processing in Wirelss Communication Systems,"** 13th Iranian Student Conference on Electrical Engineering, Tarbiat Modares Univ., **2010.**
2. **S. Shirvani Moghaddam, "Cellular Mobile Communications (Past, Present and Future View),"** 4th Iranian Student Conference on Electrical Engineering, University of Tehran, Sept. **2001.**
3. **S. Shirvani Moghaddam, "Cellular Mobile Communication Systems,"** 3rd Iranian Student Conference on Electrical Engineering (ISCEE), Iran University of Science and Technology, Oct. **2000.**
4. **S. Shirvani Moghaddam, S. Emamieh, H. Safavi, and F. Jadidi Tabrizi, "Marine Communications,"** 3rd Iranian Student Conference on Electrical Engineering, Iran Univ. of Science and Technology, **2000.**
5. **S. Shirvani Moghaddam, "Channel Assignment and Handoff in Cellular Mobile Communication Systems,"** 2nd Iranian Student Conference on Electrical Engineering, Amirkabir Univ. of Tech., **1999.**

PRESENTATIONS

1. **S. Shirvani Moghaddam, "5G Communications and Beyond,"** Shahid Rajae Teacher Training University, January **2020.**
2. **S. Shirvani Moghaddam, "DOA-Based Non-Blind Adaptive Antenna Array Beamforming,"** Shahid Rajae Teacher Training University, April **2012.**
3. **S. Shirvani Moghaddam, "Modeling and Evaluation of Electric and Magnetic Fields of Loop Antenna Considering the Environmental Effects,"** Shahid Rajae Teahcer Training Univeristy, **2012.**
4. **S. Shirvani Moghaddam, "Impact Factor of International Journals of Sciences and Engineering,"** Shahid Rajae Teacher Training University, Feb. **2012.**
5. **S. Shirvani Moghaddam, "DOA Estimation of Narrowband Communication Signals Using A New Uniform Linear Array with Two Additional Elements,"** Shahid Rajae Teacher Train. Univ., **2011.**
6. **S. Shirvani Moghaddam, "The Place of Digital Communications in the Human Life,"** Shahid Rajae Teacher Training University, May **2011.**
7. **S. Shirvani Moghaddam, "Fixed-Beam Antenna Array Beamforming,"** Shahid Rajae Teacher Training University, Oct. **2010.**
8. **S. Shirvani Moghaddam, "Radio Resource Management,"** Shahid Rajae Teacher Train. Univ., **2009.**
9. **S. Shirvani Moghaddam, "The Performance of Multi-Input Multi-Output Channel Estimation Algorithms,"** Shahid Rajae Teacher Training University, Dec. **2009.**
10. **S. Shirvani Moghaddam, "Training-Based Channel Estimation in Multi-Input Multi-Output Communication Systems,"** Shahid Rajae Teacher Training University, March **2009.**
11. **S. Shirvani Moghaddam, "Smart Antennas,"** Shahid Rajae Teacher Training University, Jan. **2007.**
12. **S. Shirvani Moghaddam, "Satellite Communications (Present and Future View),"** Shahid Rajae Teacher Training University, Jan. **2007.**
13. **S. Shirvani Moghaddam, "Wireless Communications in 21st Century,"** Shahid Rajae Teacher Training University, May **2005.**
14. **S. Shirvani Moghaddam, "Third Generation Mobile Cellular Communications,"** Communications Center of Artesh, July **2002..**

SUPERVISOR OF Ph.D. THESES

1. **“Clustering and Resource Allocation in Wireless Ultra Dense Networks Based on On/Off Technique,”** Student: A. Oskoueian, Shahid Rajae Teacher Training University, Financially supported by Iran National Science Foundation (INSFI), In progress.
2. **“Improvement of Handover in Femtocell-based Cellular Cognitive Radio Network,”** Student: A. Habibzadeh, Shahid Rajae Teacher Training University, May 2017.
3. **“Design of Optimum Training Sequences for Channel Estimation of Spatially Correlated Multi-Input Multi-Output Rician Fading Channels,”** Student: H. Nooralizadeh, Islamic Azad Univ., 2009.

SUPERVISOR OF M.Sc. THESES

1. **“Resource Allocation in Cooperative Cellular Vehicle-to-Vehicle Communications for Improving Reliability and Latency in Urban Environments,”** Student: Mehran Hosseini, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, In Progress.
2. **“Radio Resource Allocation in 5G Ultra-Reliable Low Latency Communications,”** Student: Farshid Hampaian Miandoab, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, In Progress.
3. **“Resource Allocation in Vehicle-to-Vehicle Communications Based on Side-Link in LTE Cellular Networks,”** Student: Navid Nobakhti, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, In Progress.
4. **“Resource Allocation in Underlay Device to Device Communications Based on Clustered Poisson Process,”** Student: Nasimeh Afzalkhani, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, In Progress.
5. **“Modeling and Numerical Analysis of Power Control in Ultra Dense Networks Based on On/Off Technique,”** Student: Ehsan Sahraee, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, March 2020.
6. **“Resource Allocation and Power Control in Energy Harvested Underlay Device to Device Communications,”** Student: Shiva Rabeian, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, November 2019.
7. **“Clustering and Optimum Resource Allocation in Cellular Networks with Device to Device Communications,”** Student: Mahsa Ghasemi, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Feb. 2018.
8. **“Improvement of Energy Efficiency for Device to Device Communications Using Proper Mode Selection Algorithm,”** Student: Kolsum Chamanzadeh, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Feb. 2017.
9. **“Performance Improvement for Relay-Aided Underlay D2D Communications,”** Student: Mohammad Reza Parvizi, Faculty of Electrical Engineering, Shahid Rajae Teacher Train. Univ., 2017.
10. **“Simulation and Software Implementation of Time and Frequency Domain Cyclostationary-based OFDM Detection for Cognitive Radio Applications,”** Student: Ehsan Abedi, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Sept. 2016.

11. **“Optimization of Radio Resource Allocation for Device to Device Communications in Relay-Assisted Cellular Structures,”** Student: Hossein Ghavami, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Sept. **2016**.
12. **“Compensation of Mutual Coupling of Dipole Array Antenna for Exact Direction of Arrival Estimation,”** Student: Mina aghamohammadi, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Jan. **2016**.
13. **“Spectrum Sensing and Radio Localization in Cognitive Radio Communications Based on Compressed Sensing,”** Student: Rashin Jalili Danaloo, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Oct. **2015**.
14. **“Two Dimensional Direction Of Arrival (DOA) Estimation of Communication Signals Based on the MUSIC, ESPRIT and Propagator Algorithms,”** Student: Ali Janan, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Financially supported by Iran Telecommunication Research Center (ITRC), Feb. **2014**.
15. **“Joint Power Control and Bemaforming in Two Way Relay Networks,”** Student: Fahimeh Baramaki Yazdi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Train. Univ., Feb. **2014**.
16. **“Joint Power Control and Beamforming in MIMO Relay Networks,”** Student: Maraym Alibeigi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Feb. **2014**.
17. **“Joint Wideband Frequency Domain Direction Of Arrival (DOA) Estimation and Antenna Beamforming Algorithm,”** Student: Mohammad Rahim Pishgoo, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Sept. **2013**.
18. **“Determining the Number of Wireless Radio Sources in the Presence of Colour Noise and Coherent and Noncoherent Signals,”** Student: Somaye Jalaei, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Financially supported by Iran Telecommunication Research Center (ITRC), Feb. **2013**.
19. **“Angle Of Arrival (AOA) Estimation in Multipath Environments Using Antenna Arrays with Lower Elements than Source Numbers,”** Student: Z. Ebadi, Islamic Azad Univ., South Branch, **2012**.
20. **“Direction Of Arrival (DOA) Estimation of Communication Signals Based on Fourth Order Cumulants,”** Student: Akbar Keshavarz Nasab, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Financially supported by Iran Telecomm. Research Center, **2012**.
21. **“Direction Of Arrival (DOA) Estimation of Wideband Signals Based on Cyclic MUSIC Algorithm and A New Array Geometry,”** Student: Sakineh Almasi Monfared, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Financially supported by Iran Telecommunication Research Center (ITRC), Feb. **2012**.
22. **“Wideband Adaptive Array Antenna Beamforming,”** Student: Nasrollah Solgi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Financially supported by Iran Telecommunication Research Center (ITRC), Feb. **2012**.
23. **“Adaptive Base Station Antenna Beamforming for Multi User Applications in WCDMA Systems,”** Student: Hajar Sadeghi, Islamic Azad University, Tehran South Branch, Feb. **2011**.

24. **“Adaptive Antenna Array Beamforming Using Combination of LMS Weighting and MUSIC Direction Of Arrival (DOA) Estimation Algorithms,”** Student: Farida Akbari, Islamic Azad University, Tehran South Branch, Feb. **2011**.
25. **“Updating Weighting Coefficients of Smart Antennas Using Estimation of Angle and Movement Direction of Signal Source,”** Student: Roohollah Kalami Rad, Islamic Azad Univ., South Branch, **2009**.
26. **“Survey of Radio Frequency Identification (RFID) System and the Effect of Environmental Phenomena on Its Performance,”** Student: Poorya Kamalvand, Booshehr Islamic Azad Univ., **2009**.
27. **“Channel Estimation in MIMO Systems and Its Effect on Capacity and Quality,”** Student: Hossein Saremi, Islamic Azad University, Tehran South Branch, Feb. **2008**.
28. **“Interference Reduction in WCDMA-Based Cellular Mobile Communication Systems,”** Student: Mahdi Jalali, Islamic Azad University, Tehran South Branch, Feb. **2006**.
29. **“Selection, Design and Optimization of WLL-Based Communication Networks,”** Student: Afshin Shahgholi, Islamic Azad University, Tehran South Branch, Feb. **2006**.
30. **“Paging and Location Updating in Two-Layer Cellular Structures,”** Student: Arash Zamani, Islamic Azad University, Tehran South Branch, Feb. **2006**.
31. **“Antenna Beamforming in Cellular Mobile Communication Systems Using Smart Antennas,”** Student: Ahmad Reza Vizandan, Islamic Azad University, Tehran South Branch, July **2005**.
32. **“Radio Resource Management in CDMA-Based Cellular Mobile Communication Systems,”** Student: Ali Zareii Aliabadi, Islamic Azad University, Tehran South Branch, Sept. **2004**.
33. **“Design, Simulation, Performance Comparison and Improvement of Mobile Set Localization in Cellular Mobile Communications,”** Student: Zarrin Fallah, Islamic Azad Univ., South Branch, **2003**.
34. **“Survey, Simulation, Performance Comparison and Improvement of Traffic Prioritization in Cellular Mobile Communications,”** Student: A.H. Khodadadi, Islamic Azad Univ., South Branch, **2003**.

ADVISER OF M.Sc. THESES

1. **“Design, Simulation and Fabrication of Near-Filed Printed Coil for In-Body Communications,”** Student: A. Moshki Kashi, Faculty of Electrical Engineering, Shahid Rajaei Teacher Train. Univ., In Progress.
2. **“Design and Simulation of a Wireless Communication Link for Endoscopy Capsule,”** Student: B. Asghari, Faculty of Electrical Engineering, Shahid Rajaei Teacher Train. Univ., Feb. **2019**.
3. **“Joint Compensation of Mutual Coupling and shadowing in Cylindrical Conformal Array Antenna for Improving Direction of Arrival Estimation,”** Student: Rasoul Karamzadeh, Faculty of Electrical Engineering Shahid Rajaei Teacher Training University, Aug. **2018**.
4. **“Modeling Indoor Millimeter Wave Propagation,”** Student: Abdolmanaf Azizian, Faculty of Electrical and Computer Engineering Shahid Rajaei Teacher Training University, Dec. **2014**.
5. **“Synchronization in Ultra Wide Band (UWB) Wireless Communication Systems,”** Student: Amin Izadi, Faculty of Electrical and Computer Engineering, Shahid Rajaei Teacher Train. Univ., Feb. **2014**.
6. **“Users Sum Bit Rate Maximization Algorithms in Multicarrier Cooperative Cognitive Radio Systems and Enhancement,”** Student: Ahmad Farjami, Islamic Azad Univ., South Branch, Feb. **2014**.

7. **“Analysis, Simulation and Improvement of Cellular Networks Sum Rate Increment Algorithm Based on Interference Alignment,”** Student: Mahsa Shab, Islamic Azad Univ., South Branch, **2013**.
8. **“Performance Improvement of Non-Coherent Energy Detectors in Ultra Wide Band (UWB) Systems,”** Student: Ali Mohebbi, Islamic Azad University, Tehran South Branch, July **2011**.
9. **“ Evaluation of Handover Initiation Algorithm between WiMAX and UMTS and Enhancement,”** Student: Mahboob Jafari Feiz, Islamic Azad University, Tehran South Branch, Feb. **2011**.
10. **“Design of Inter-Cell Scheduling to Achieve Quality of Service in WiMAX Mobile Networks,”** Student: Ronak Farhadi, Islamic Azad University, Tehran South Branch, Feb. **2011**.
11. **“Capacity of Relay-Based Wireless Cellular Networks,”** Student: Faeze Haidari, Islamic Azad University, Tehran South Branch, Sept. **2010**.
12. **“Control of Inter Cell Interference in Down-Link of 3GPP-LTE Networks Using Adaptive Radio Resource Reuse Method,”** Student: Zahra Bakhti, Islamic Azad University, South Branch, July **2010**.
13. **“Modeling UWB Channels in Indoor LOS Environment,”** Student: Mostafa Yahyaabadi, Islamic Azad University, Tehran South Branch, Jan. **2010**.
14. **“Survey and Performance Improvement of Channel Estimation of UWB Systems in Time and Frequency Domains,”** Student: Marzie Rezaeian Kiasari, Islamic Azad Univ., South Branch, **2009**.
15. **“Predicting Dynamic Behavior of Cellular Mobile Channels Using Neural Networks,”** Student: Mohsen Hatami Sadegh, Islamic Azad University, Tehran South Branch, Sept. **2009**.
16. **“Design of Turbo Code Decoder for DVB Carrier,”** Student: Mojtaba Mohammadpoor, Islamic Azad University, Tehran South Branch, Feb. **2009**.
17. **“Synchronization in MIMO-OFDM Systems,”** Student: Afshin Sattari Fallah, Islamic Azad University, Tehran South Branch, Feb. **2008**.
18. **“Design and Simulation of UMTS Mobile Network Using OPNET Software,”** Student: Mohammad Reza Analooei, Islamic Azad University, Tehran South Branch, September **2007**.
19. **“Temporal-Spatial Processing in MIMO Channels,”** Student: Fatemeh Eshagh Hosseini, Islamic Azad University, Tehran South Branch, Feb. **2007**.
20. **“Offering a Model for Evaluation and Selection Contractors of Satellite Communication Networks,”** Student: Razie Zare, Islamic Azad University, Tehran South Branch, Sept. **2006**.
21. **“Noise and Noise Reduction Methods in Low Noise Amplifiers,”** Student: Mahindokht Keshavarzian, Islamic Azad University, Tehran South Branch, Dec. **2005**.
22. **“Direct Sequence Ultra Wide Band (DS-UWB) Technique in Wireless Communications,”** Student: Mina Dashti, Islamic Azad University, Tehran South Branch, July **2004**.

SUPERVISOR OF M.Sc. SEMINARS

1. **“5G Ultra Dense Networks and Beyond,”** Student: M. Khani, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, In Progress.
2. **“Beamforming in mmWave Massive MIMO Systems,”** Student: M.M. Fathollahi, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, In Progress.

3. **“Ultra-Reliable Low-Latency Communications in 5G communications,”** Student: F. Hampaeian, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, August **2019**.
4. **“Wireless Radio Vehicle Communications for Auto-driving of Vehicles: Challenges and Solutions,”** Student: N. Nobakhti, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, August **2019**.
5. **“Vehicle to Vehicle Wireless Radio Communications: Challenges and Solutions,”** Student: S.M. Hosseini, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, August **2019**.
6. **“Analysis and Performance Evaluation of Ultra Dense Networks Based on Stochastic Geometry,”** Student: Ehsan Sahraee, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Aug. **2018**.
7. **“Analysis and Performance Evaluation of Device to Device Communications Based on Stochastic Geometry,”** Student: Nasimeh Afzalkhani, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Aug. **2018**.
8. **“Out-Band Device to Device Communications,”** Student: Shiva Rabieian, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Sept. **2017**.
9. **“Clustering in Underlay Device to Device Communications,”** Student: Mahsa Ghasemi, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Sept. **2016**.
10. **“Direction of Arrival Estimation Based on Compressed Sensing for Wideband Signals,”** Student: Reza Khosravifard, Faculty of Electrical Engineering, Shahid Rajae Teacher Train. Univ., Sept. **2016**.
11. **“Direction of Arrival Estimation Based on Compressed Sensing for Coprime Arrays,”** Student: Abbas Ali Mirani Moghaddam, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Sept. **2016**.
12. **“Energy Efficient Algorithms in Wireless D2D Communications,”** Student: Kolsum Chamanzadeh, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, June **2015**.
13. **“Resource Allocation Optimization for Relay-Assisted Device to Device Communications in Cellular Networks,”** Student: Hossein Ghavami, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, June **2015**.
14. **“Power Control and Data Rate Improvement in Cognitive Radio Communications,”** Student: Mohammad Reza Parvizi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Feb. **2015**.
15. **“Software Defined Radio (SDR) for Cognitive Radio Communications ,”** Student: Ehsan Abedi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training Univ., August **2014**.
16. **“Spectrum Sensing and Localization in Cognitive Radio Communications,”** Student: Rashin Jalaili Danaloo, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training Univ., **2014**.
17. **“Different Radio Spectrum Sensing Methods in Cognitive Radio Communications,”** Student: Alireza Ahmadian, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Train. Univ., **2013**.

18. **“Antenna Array Beamforming and Power Control in Cellular Structures and Relay-Based Networks,”** Student: Fahimeh Baramaki Yazdi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2012**.
19. **“Antenna Array Beamforming and Power Control in Multi-Input Multi-Output Communication Systems,”** Student: Maryam Alibeigi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2012**.
20. **“Frequency Independent Wideband Antenna Array Beamforming,”** Student: Mohammad Rahim Pishgoo, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training Univ., **2012**.
21. **“ESPRIT-Based Direction Of Arrival (DOA) Estimation of Wireless Radio Sources and Its Extended Versions,”** Student: Elham Fathi, Islamic Azad Univeristy, Tehran South Branch, Feb. **2012**.
22. **“New Methods on Estimation of the Number of Wireless Radio Sources,”** Student: Somaye Jalaei, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2011**.
23. **“One-Dimensional Estimation Methods for Multidimensional Direction Of Arrival (DOA) Esimation of Wireless Radio Sources ,”** Student: Ali Janan, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2011**.
24. **“Direction Of Arrival (DOA) Estimation and Antenna Beamforming for Large Arrays,”** Student: Mina Modaresi, Islamic Azad Univeristy, Tehran South Branch, Feb. **2011**.
25. **“Direction Of Arrival (DOA) Estimation and Antenna Beamforming in Multipath Channels,”** Student: Zohre Ebadi, Islamic Azad Univeristy, Tehran South Branch, Feb. **2011**.
26. **“Direction Of Arrival (DOA) Estimation of Communication Signals Considering the Effect of Mutual Coupling in Array Antennas,”** Student: M. Dehghanpoor, Islamic Azad Univ., South Branch, Feb. **2011**.
27. **“Two and Three Dimensional Direction Of Arrival (DOA) Estimation of Communication Signals,”** Student: Mahdieh Ghasemloo, Islamic Azad Univeristy, Tehran South Branch, Feb. **2011**.
28. **“Direction OF Arrival (DOA) Estimation of Wideband Communication Signals,”** Student: Homa Valinejad, Islamic Azad Univeristy, Tehran South Branch, Sept. **2010**.
29. **“Direction Of Arrival (DOA) Estimation of Communication Signals Based on MUSIC Algorithm,”** Student: Sakineh Almasi Monfared, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2010**.
30. **“Adaptive Wideband Processing in Smart Antennas,”** Student: Nasrollah Solgi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2010**.
31. **“Direction Of Arrival (DOA) Estimation of Communication Signals Based on Higher Order Statistics (HOS),”** Student: Akbar Keshavarz Nasab, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2010**.
32. **“The Effect of Direction Of Arrival (DOA) Estimation in Smart Antenna Beamforming,”** Student: Farida Akbari, Islamic Azad Univeristy, Tehran South Branch, September **2009**.
33. **“Adaptive Processing in Smart Antennas,”** Student: Hajar Sadeghi, Islamic Azad Univeristy, Tehran South Branch, Sept. **2009**.

34. **“Smart Antennas and Its Application in WiMAX,”** Student: Farhad Sobhi, Islamic Azad Univeristy, Tehran South Branch, Sept. **2009**.
35. **“Adaptive Blind Weighting Algorithms in Smart Antennas,”** Student: Homa Aligholi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Sept. **2009**.
36. **“Antenna Beamforming Using Adaptive Antenna Arrays and Direction Of Arrival (DOA) Estimation,”** Student: Roothollah Kalami Rad, Islamic Azad Univeristy, South Branch, July **2008**.
37. **“Increasing the Capacity of Multi-Input Multi-Output (MIMO)-Based Systems Using Smart Antennas,”** Student: Maryam Hashemi, Islamic Azad Univeristy, Tehran South Branch, Oct. **2009**.
38. **“Ultra Wide Band (UWB) Communications and Its Applications,”** Student: Mahyar Shankaei, Islamic Azad Univeristy, Tehran South Branch, Sept. **2005**.
39. **“W-CDMA and Its Applications,”** Student: Fatemeh Eshagh Hosseini, Islamic Azad Univeristy, Tehran South Branch, Sept. **2005**.
40. **“Wireless Local Loops (WLLs) and Comparison of Different Standards,”** Student: Afshin Shahgholi, Islamic Azad Univeristy, Tehran South Branch, Feb. **2005**.
41. **“Digital Watermarking and Information Hiding”** Student: Ahamad Reza Vizandan, Islamic Azad Univeristy, Tehran South Branch, Feb. **2004**.
42. **“Channel Assignment in Cellular Mobile Communication Systems,”** Student: Ebrahim Zareii Aliabadi, Islamic Azad Univeristy, Tehran South Branch, Oct. **2003**.
43. **“Mobile Communications in 21st Century,”** Student: Mina Dashti, Islamic Azad Univeristy, Tehran South Branch, May **2003**.

SUPERVISOR OF B.Sc. DISSERTATIONS

1. **“Design, Simulation and Performance Evaluation of New Waveforms for 5G Communications,”** Student: Amir Masoud Mirzaeian, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, August **2019**.
2. **“Ultra Reliable Low Lattency Communications (URLLC) for Vehicle to Vehicle Communications,”** Student: Mahdi Khani, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Feb. **2019**.
3. **“Digital Antenna Array Beamforming Based on Compressive Sensing,”** Student: Hassan Keshvari Khojasteh, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, Feb. **2017**.
4. **“Simulation and Performance Evaluation of Wireless Communications in Relay-Assisted D2D Cellular Structures,”** Student: Aida Saremi, Faculty of Electrical Engineering, Shahid Rajae Teacher Training University, July **2016**.
5. **“Developing a Software for Vector Signal Analysis of Telecommunication Signals,”** Students: Ali Zareii and Masood Mardanshahi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Summer **2014**.
6. **“Radio Spectrum Sensing Using Energy Detector-Based and Matched Filter Methods,”** Student: Mehrnoosh Kamarzarrin, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, July **2013**.

7. **“Software and Hardware Digital Communications Laboratory (Pulse Modulations),”** Student: Mohammad Noori, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Sept. **2011**.
8. **“Software Realization of RLS Algorithm for Adaptive Antenna Array Beamforming,”** Student: Jafar Zamani, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Sept. **2010**.
9. **“Software Realization of LMS-Based Algorithms for Adaptive Antenna Array Beamforming,”** Student: Saeed Najafi Mosleh, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Dec. **2009**.
10. **“Software Realization of Constant Modulus Algorithm (CMA) for Adaptive Antenna Array Beamforming,”** Student: Mohammad Ghadian, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Dec. **2009**.
11. **“Software and Hardware Digital Communications Laboratory (Digital Bandpass Modulations),”** Students: Ahmad Mohebzadeh Behabadi and Ali Abbaszadeh Arani, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Dec. **2009**.
12. **“Classification of Digital Modulation Signals in the Presence of Noise and Fading Using Neural Networks,”** Student: Reza Rasti Boroujeni, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2009**.
13. **“Software Realization of Fixed Beam Antenna Array Beamforming,”** Student: Mohammad Dabibi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, June **2009**.
14. **“Identification of Analog Modulation Signals in the Presence of Noise and Fading,”** Student: Abdolhamid Mousavi Asl, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Dec. **2008**.
15. **“Survey and Simulation of Multi-Input Multi-Output (MIMO)-Based systems Considering Noise and Rayleigh Fading,”** Student: Arash Rafie Boroujeni, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, July **2008**.
16. **“Software Simulation and Performance Evaluation of Different Digital Modulations in Noisy Channels Considering Two Types (Rayleigh and Rician) Fading,”** Student: Seyed Hassan Daryanavard, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Oct. **2007**.
17. **“Smart Antennas and Antenna Beamforming Using Antenna Arrays,”** Student: Shirkooh Ahmadi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training Univ., Sept. **2007**.
18. **“Software Simulation and Performance Evaluation of Different Diversity Receiving in Wireless Communication Systems,”** Student: Mohsen Esmaili, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Sept. **2007**.
19. **“Survey and Comparison of Narrowband, Wideband and Ultra Wideband Communication Systems,”** Student: Javad Salemi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, July **2007**.

20. **“Software Package for Calculating Indoor Audio Coverage and Placement of Amplifiers,”** Student: Aminollah Azad, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Sept. **2005**.
21. **“Suggestion, Simulation and Performance Evaluation of A New Method for Wireless Radio Communication of Far Distance Mobile Units,”** Student: Morteza Shahmoradi Ghahe, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, July **2005**.
22. **“Evolution and Progress of Handsets, Batteries, Displays, processors and other Components of Mobile Telephones in 21st Century,”** Student: Akbar Karimi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Feb. **2005**.
23. **“Wireless Technologies: W-LAN and Bluetooth,”** Student: Naser Seidi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Feb. **2005**.
24. **“Optical Fiber,”** Student: Mahdi Nosrat Abadi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Feb. **2005**.
25. **“Radio Waves Propagation and Making a Software Package for Designing Point to Point Radio Links,”** Student: Mahdi Mollazadeh Golmahaleh, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Feb. **2005**.
26. **“Survey, Description and Comparison of Different Methods for Reducing Noise and Interference in Mobile Communication Systems,”** Student: Shamsoddin Naderi, Faculty of Electrical and Computer Engineering, Shahid Rajae Teacher Training University, Feb. **2004**.
27. **“Design, Simulation and Performance Comparison of Source Coders (Shanon, Shanon-Fano and Huffman),”** Student: Amir Zarrin Kolah, Faculty of Oloom va Fonoon FARABI, January **2004**.
28. **“Voice Encryption by Time, Frequency and Combined Methods (Comparision the Performance of Different Methods Using Computer Simulations),”** Students: Hamed Salimi and Majid Afzali, Faculty of Oloom va Fonoon FARABI, August **2003**.

REVIEWER OF ISI, ISC AND INTERNATIONAL JOURNALS

- ✓ Bulletin of Electrical Engineering and Informatics (EEI)
- ✓ Computer Communications-Elsevier
- ✓ Electronics and Telecommunications Research Institute (ETRI) Journal
- ✓ Electronic and Cybernetics Defence
- ✓ EURASIP Wireless Communication Networks (WCN)
- ✓ Hindawi-Mathematical Problems in Engineering
- ✓ IAU Journal of Electrical Engineering Science
- ✓ IEEE-Access
- ✓ IEEE- Communications Letters
- ✓ IEEE- Transactions on Vehicular Technology
- ✓ IET- Microwaves, Antennas and Propagation
- ✓ IET- Radar, Sonar & Navigation
- ✓ IET- Signal Processing

- ✓ IET- Communications
- ✓ IET- Electronics Letters
- ✓ IET-Circuits, Devices and Systems
- ✓ IET- Journal Of Engineering (JOE)
- ✓ Internatioanl Journal of Applied Electromagnetics and Mechanics (IJAEM)
- ✓ International Journal of Communication Systems (IJCS)- Wiley
- ✓ International Journal of Computer and Information Technology (IJCIT)
- ✓ International Journal of Electronics and Communications (AEUE)-Elsevier
- ✓ International Journal of Sensors, Wireless Communications and Control (IJSWCC)
- ✓ Iranian Association of Electrical and Electronic Engineers (IAEEE)
- ✓ Iranian Journal od Electrical and Electronic Engineering (IJEED)
- ✓ Iranian Journal of Electrical and Computer Engineering (IJECE)
- ✓ Iranian Journal of Science and Technology (ISTE)
- ✓ International Journal of Electrical and Computer Engineering (IJECE)
- ✓ Jordanian Journal of Computers and Information Technology
- ✓ Journal of Signal and Data Processing (JSDP)
- ✓ Journal of Communication Engineering (JCE)
- ✓ Journal of Communications Software and Systems (JCOMSS)
- ✓ Journal of Electrical and Computer Engineering Innovations (JECEI)
- ✓ Journal of Electronic Industries
- ✓ Journal of Information Systems and Telecommunications (JIST)
- ✓ Journal of Soft Computing and Information Technology (JSCIT)
- ✓ Mobile Computing (MC)
- ✓ Passive Defence
- ✓ Physical Review and Research International (PRRI)
- ✓ Radar
- ✓ Recent Patents on Computer Science
- ✓ Scientific Research and Essays (SRE)
- ✓ Sensors
- ✓ Springer Annals of Telecommunications
- ✓ Springer Wireless Personal Communications (WPC)
- ✓ SpringerPlus
- ✓ Tabriz Journal of Electrical Engineering (TJEE)
- ✓ Technology of Education
- ✓ The Int. Journal for Computation and Mathematics in Electric. and Electronic Engineering (COMPEL)
- ✓ The Journal of Acoustical Society of America (JASA)
- ✓ Transactions on Emerging Telecommunications Technologies (ETT)- Wiley

MEMBER OF SCIENTIFIC SOCIETIES

1. Senior Member of Institute of Electrical and Electronic Engineers (IEEE)
2. Editor in Chief (EiC) and Member of Editorial Board of Journal of Electrical and Computer Engineering Innovations (JECIEI)- From July 2013 up to now.
3. Member of Technical Editorial Board of Technology and Education Journal (Shahid Rajaei Teacher Training University)- From Oct. 2006 to Dec. 2008.
4. Member of Iranian Scientific Society of Engineering Electromagnetics (ISSEE)
5. Continuous Member of Iranian Society of Cryptography (ISC)
6. LinkedIn/ResearchGate/ORCID/GoogleScholar/Scopus/WoS/Publons/LiveDNA/Mendeley

ENGINEERING EXPERIMENTS

11 years engineering experiments in Basic and Detail Design of Communication Systems of Oil, Gas and Petrochemical Onshore and Offshore Sites (Aboozar, Bahregansar, Ghalenar, Nargesi, Parsi, Khark and Mobin), **1995-2006.**

AWARDS in Shahid Rajaei Teacher Training University (SRTTU)

1. **Editor in Chief of the best Journal-2019**
2. **Active Researcher- 2018**
3. **Active Researcher- 2017**
4. **Editor in Chief of the best Journal-2016**
5. **The best lecturer- 2016.**
6. **The best researcher** in Faculty of Electrical and Computer Engineering-**2014.**
7. **The best researcher** in Faculty of Electrical and Computer Engineering-**2013.**
8. **The supervisor** of the best M.Sc. Thesis-**2013.**
9. **The supervisor** of the best M.Sc. Thesis in Faculty of Electrical and Computer Engineering- **2013.**
10. **The best lecturer** (Province level)-**2013.**
11. **The Praiseworthy researcher-2012.**
12. **The best researcher** in Faculty of Electrical and Computer Engineering-**2011.**
13. **The best lecturer -2011.**
14. **The best researcher-2010.**
15. **The best lecturer-2008.**
16. **The best head of department-2007.**
17. **The best lecturer-2005.**

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