Personal Information:

Nationality: Iranian
Birth Date: Mar. 21, 1987
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Education:

Ph.D. in Electrical Engineering, Telecommunication Systems

Dept. of Electrical Engineering, Faculty of Engineering, Isfahan University, Isfahan, Iran.
Thesis: "*Detection and Countering with Deception Jammed Targets by DRFM Method in Radar Sensor Networks*".
GPA: 3.87/4
(Sep. 2013-May 2017)

M.Sc. in Electrical Engineering, Secure Telecommunication Systems

Dept. of Electrical Engineering, Iran University of Science & Technology, Tehran, Iran.
Thesis: "*Design a Secure Space-Time-Frequency Coding for WiFi Networks*".
GPA: 3.3/4
(Sep. 2009-Mar. 2012)

B.Sc. in Electrical Engineering, Telecommunication Systems

Dept. of Electrical & Computer Engineering, Faculty of Engineering, University of Tabriz, Tabriz, Iran.
Thesis: "*Adaptative algorithms in acoustic modelling for speech recognition*".
GPA: 2.8/4
(Sep. 2005-Sep. 2009)

Diploma & Pre-University in Math & Physics

National Organization for Developing Exceptional Talents, Tehran, Iran
GPA: 3.83/4
(Sep. 2001-July 2005)

Reference Advisor:

Ph.D. Supervising: Mohsen Mivehchy
Associate Professor, Dept. of Electrical Engineering, Faculty of Engineering, Isfahan University, Isfahan, Iran. *Email:mivehchy@eng.ui.ac.ir*
Ph.D. Advisor: Mohamad Farzan Sabahi
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M.Sc. Supervising: Abolfazl Falahati
Professor, Dept. of Electrical Engineering, Iran University of Science & Technology, Tehran, Iran.
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B.Sc. Supervising: Mirjavad Mousavinia
Associate Professor, Dept. of Electrical & Computer Engineering, University of Tabriz, Tehran, Iran.
Email:niya@tabrizu.ac.ir

Books:

1) "*Optic Fiber Communication systems*", Mahdi Nouri, Published by the Soroush Corporation, 2016. (ISBN: 978-600-95965-6-0)

2) "*OFDM for Optical Communication systems*", translated in persian by Mahdi Nouri, Nooshin Farhangian, Zahra Zeinol-abedini, Mahrokh G. Shayesteh, Mehdi Jamshidifar, Published in the Soroush Corporation, 2017. (ISBN: 978-600-95965-7-7)

ISI Journals:

1) Nouri, M., Abazari Aghdam, S., Jafarieh, A., Bagby, J. Sahebghalam, S., "A wideband millimeter-wave antenna based on quasi-Yagi antenna with MIMO circular array antenna beamforming for 5G wireless networks", ***Microwave and Optical Technology Letters***, pp. 1810-1814, 2019. (IF: 0.948)
2) Nouri, M, Mivehchy, M., "Velocity Deception Jamming Discrimination Using Quantization Effect", ***Analog Integrated Circuits and Signal Processing***, pp. 1-6, 2019. (IF: 0.8)
3) Nouri, M., Taghavi, I., Shayesteh, M., Abazari Aghdam, S.,"Adaptive Array Beamforming via Kernel based LMS Algorithm", **IEEE Transactions on Antennas and Propagation**, Under review, 2018.
4) Nouri, M, Mivehchy, M., Parvaresh, F., Sabahi, M.F., "Target Recognition and Discrimination based on Multiple-Frequencies LFM Signal with Subcarrier Hopping", ***Multidimensional Systems and Signal Processing***, pp. 1-25, 2018. (IF: 1.365)
5) Nouri, M, Mivehchy, M, Sabahi, M.F., "Novel Anti-Deception Jamming Method by Measuring Phase Noise of Oscillators in LFMCW Tracking Radar Sensor Networks", ***IEEE ACCESS Journal***, vol. 5, pp. 11455 - 11467, 2017. (IF: 3.224)
6) Nouri, M, Mivehchy, M, Sabahi, M.F., "Jammer target discrimination based on local variance of signal histogram in tracking radar and its implementation", ***Signal, Image, Video processing***, vol. 11, issue 6, pp 1025–1032, 2017. (IF:1.102)

7) Nouri, M, Mivehchy, M, Sabahi, M.F., "Target recognition based on phase noise of received signal ", ***IET Electronics Letters***, vol. 53, issue 12, pp. 808 - 810, 2017. (IF: 1.155)
8) Nouri, M, Mivehchy, M, Sabahi, M.F., "Target recognition based on phase noise of received laser signal in lidar jammer", ***Chinese Optics Letters***, vol. 15, issue 10, pp. 100302, 2017. (IF: 1.859)
9) Mahdi Nouri, Mahrokh Ghani Shayesteh,"Chromatic dispersion and nonlinear phase noise compensation based on KLMS method", ***Optics Communications***, Vol. 351, pp.149-154, 2015. (IF: 1.588)
10) Haghighat, N. Kalbkhani, H. ; Shayesteh, M.G. ; Nouri, M. "Variable bit rate video traffic prediction based on kernel least mean square method", ***IET Image Processing***, vol. 9 , no. 9, pp. 777 – 794, 2015. (IF: 1.044)
11) Mahdi Nouri, Sajjad Abazari Aghdam, "Reconfigurable UWB antenna with electrically control for triple on-demand rejection bandwidth", ***Microwave and Optical Technology Letters***, vol. 57, no. 8, pp. 1894–1897, 2015. (IF: 0.731)
12) V Zarei, H Boudaghi, M Nouri, SA Aghdam, "Reconfigurable Circular Polarization Antenna with Utilizing Active Devices for Communication Systems.", ***Applied Computational Electromagnetics Society Journal***, vol. 30, no. 9, 2015. (IF: 0.806)
13) M. Nouri, P. Pourmahdi , M. Safarinia , M.H. Garshasbi ."The Parallel One-way Hash Function Based on Chebyshev-Halley Methods with Variable Parameter", ***International Journal of Computers, Communications & Control (IJCCC)***, vol. 9, no. 1, pp. 24-36, 2014. (IF:1.374)

Other Journals:

1) M.Nouri , S.Abazari Aghdam , P.Pourmahdi and M.Safarinia , "Analysis of a Novel Hash Function Based upon Chaotic Nonlinear Map with VariableParameter" , Journal of Computer Science and Information Security (IJCSIS) , pp. 221-228, 2011.
2) Mahdi Nouri, Sepideh Lahouti, Negar Beshatar Mehr, Sepideh Vatanpour "Comprehensive Analysis of π Base Exponential Functions as a Window" Journal of Computer Science and Information Security (IJCSIS) ,2012 june.
3) Mahdi Nouri, Nooshin Farhangian, Nasim Fekri, Zahra Zeinolabedini "Phase Maximum Ratio Combining Techniques to Reduce Error Probability and Increase Capacity Further" World Applied Science Journal (WASJ), vol. 18, no. 12, 2012
4) M.Nouri. A. Falahati " Secure MIMO Space-Time Block Coding Technique over a Wireless Communication Links", Cyber Journals: Multidisciplinary Journals in Science and Technology, Journal of Selected Areas in Telecommunications (JSAT), Jan 2012 (ISI-List)
5) M.Nouri. S. A. Aghdam, M. Nourzadeh, M. Hatami, S. A. Aghdam " Analysis and Implementation of a Fast Hash Function Based upon Elliptic Curves" , Cyber Journals: Multidisciplinary Journals in Science and Technology, Journal of Selected Areas in Telecommunications (JSAT), Oct 2011 (ISI-List)
6) M. Nouri, S. Sajjadi Ghaemmaghami, A. Falahati, "An Improved Window Based On Cosine Hyperbolic Function" Cyber Journals: Multidisciplinary Journals in Science and Technology, Journal of Selected Areas in Telecommunications (JSAT), July 2011(ISI-List)

Conferences:

1) M. Nouri and S. Abazari Aghdam, V.Tabataba Vakili "An Optimal Method for Narrowband Interference Mitigation In The GPS" IEEE Conf, ISMSAO'11, vol. 2, 13–17, pp. 1193– 1199, April 2011
2) M. Nouri, S. Sajjadi Ghaem Maghami "Improved Window Based On Cosine Hyperbolic Function" WSEAS Conf, Florence, Italy, vol. 2, pp. 205– 210, August 23-25, 2011
3) M. Nouri and S. Abazari Aghdam, S. Abazari Aghdam "Collaborative Techniques for Detecting Wormhole Attack in MANETs" IEEE Conf, ICRIIS'11, Oct 2011, pp. 1 – 6.
4) M. Nouri and S. Abazari Aghdam, S. Abazari Aghdam"Analysis Of Novel Window Based On The Polynomial Functions" Springer Conf. Communication, Electronics and Control, 2011, Volume 250, Part 1, pp.50-54.
5) Mahdi Nouri, Nooshin Farhangian, Zahra Zeinolabedini, Nasim Fekri, "Conceptual Discrete Wavelet Transformation Speech Hashing for Content Authentication" ,IEEE Conference ACTEA12, pp. 151 - 157, 2012

6) Mahdi Nouri, Nooshin Farhangian, Zahra Zeinolabedini, Payam pormahdi, "Implementation of a Novel Audio Hash Function Based upon Stationary Wavelet Transform" ,IEEE Conference IST2012, pp. 1167 - 1173, 2012.
7) M.Nouri, A.Khezeli, A.Ramezani and A.Ebrahimi , "A Dynamic Chaotic Hash Function Based upon Circle Chord Methods " , Sixth International Symposium on Telecommunications (IST), pp. 1044 – 1049, 2012.
8) Nouri, M.; Farhangian, N.; Zeinolabedini, Z.; Safarinia, M., "Conceptual authentication speech hashing base upon hypotrochoid graph " , Sixth International Symposium on Telecommunications (IST), pp. 1136 - 1141, 2012.
9) Nouri, M. ; Zeinolabedini, Z. ; Farhangian, N. ; Fekri, N. "Analysis of a novel audio hash function based upon stationary wavelet transform", 2012 6th International Conference on Application of Information and Communication Technologies (AICT), pp. 1 - 6, 2012
10) M.Nouri, S. Abazari Aghdam, B. Abdolmaleki , K.Baghery, "A Novel UWB Antenna with Tunable Notch function" IEEE Conf, ICEE 2013.
11) Mahdi Nouri, Mohsen Mivehchy, Sajjad Abazari Aghdam, "Adaptive Time-Frequency Kernel Local Fisher Discriminant Analysis to Distinguish Range Deception Jamming", 6th ICCCNT, Dallas-Fortworth, TX, USA, pp:1 – 5,2015.
12) M. Nouri, M. Mivehchy, M.F. Sabahi, and F. Parvaresh "Quantization Pattern Recognition Detects Velocity Deception Jamming", The 3th International Conference on Image Analysis and Pattern Recognition, accepted, 2017.
13) Hamid Ghasemi jujili, Mohsen Mivehchy, Mahdi Nouri, Sajjad Abazari Aghdam, "A new analytical algorithm for the determination of the load reflection coefficient to maximization dynamic range in high frequency power amplifiers",17th IEEE Wamicon, USA, pp: 15-20, 2016.
14) Pourahmadazar, J., Sahebghalam, S., Abazari Aghdam, S., Nouri, M., "A Millimeter-Wave Fresnel Zone Plate Lens Design Using Perforated 3D Printing Material", IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes, Ann Arbor, Michigan, 2018.
15) Nouri, M., Setoudeh, F., Abazari Aghdam, S. "Implementation of Wideband Channel Modeling Based on Extended Kalman Filter Interpolation for MIMO-OFDM WLAN Channel Networks", 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Torento, Canada, 2018.
16) Abazari Aghdam, S., Nouri, M., Setoudeh, F., "Millimiterwave (5G) Broadband Compact Slot Antenna for the Automotive Shark-fin Mobile and 5G Mobile Communication Networks", 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Torento, Canada, 2018.

Research Activities:

1. "Secure coding for WiFi networks project", scholarship by the Iran Telecommunication Research Center.
2. "Evaluating the KPI methods in 4G Mobile networks", Tehran Research Center.
3. "Considering the weakness of VoIP protocol", Tehran Research Center.
4. "Steganography and Steganalysis in Audio and online VoIP systems", Tehran Research Center.
5. Supervising and advisor of Final thesis.

Teaching Experience:

University	*Time Period*	*Lessons*
Arak University of Technology	2013-2019	Analog Communication, Electromagnetics, Electrical Measurement, Fields and Waves, Electronic Distance Measurement
Arak University	2014-2017	Analog Communication, Digital Communication, Final thesis
Isfahan University	2014-2015	Communication Circuits Lab
Kashani University of Higher Education	2011-2013	Optical Communication Systems, Wireless Communication, Data Transmission systems, Information Security, Final Thesis
Basir University of Higher Education	2012	Digital Communications, Switching Networks, Computer Networks in Telecommunication

A.B.A University of Higher Education	2011	Wireless Communication, NGN Networks, Final Thesis

Honors and Awards:

1. Best Annual Student Research Prize at Isfahan University (2017).
2. First Ranked among Ph.D exam entrance Electrical Engineering Students, Electrical Engineering Department, Isfahan University (2013).
3. Best Student at Isfahan University and introduced to Iran's National Elites Foundation (2015-2016).
4. Member of Iran's National Elites Foundation.
5. Best Student Paper Award, 1st place, IST 2012.
6. Second Ranked among MSc. Students.

Professional Societies and Services:

Reviewer

- IET Signal Processing
- Springer signal processing
- IEEE ACCESS
- Soft Computing
- Journal of Operation Research Society (JORS)
- International Journal of Wireless Information Networks
- IEEE Conferences Reviewer
- IEEE Member

Computer Familiarities and Softwares:

1) Simulation

- MATLAB: SIMULINK, m-file programming, Communication toolbox, Filter Design toolbox, Signal processing toolbox, Optimization toolbox
- Simulation Software: PROTEUS, PSPICE, ORCAD, CODEVISION
- Optical Engineering software: Optisystem, Optifiber, Optiwave
- Underwater sensor Network: Aqua-Sim NS3
- Mechanical Engineering software: AUTOCAD

2) Networking

- CCNA, CCNP: (routing & switching)
- 4G communication network: KPI
- LTE Network: IMS & VoLTE

3) Programming

- Computer Languages : C, C++
- DSP: ccsv3 programming in digital signal processors.

4) Microwave

- Electromagnetic Engineering software: HFSS, CST-3D, microwave office.

5) Usual Program

- Operating Systems and Microsoft Office : Microsoft Windows 98/2000/Me/XP/7, Word, Excel, PowerPoint, Linux
- Graphic and Web Development Tools : Adobe Photoshop

Languages:

- English: Fluent
  GRE: Paper-based exam, November 2011: Verbal: 158 , Quantitative:163 , Analytical Writing: 4