

Curriculum Vitae

Masoumeh Nasiri-Kenari

Professor of Electrical Engineering Department
Sharif University of Technology (SUT)
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Research Interest:

Various areas of Wireless Communications including:

- Nano-networks and Molecular Communications
- Green Communications
- Cooperative and Cognitive Communications
- Wireless Body Area Networks

Education:

- Ph.D.** in Electrical Engineering, 1994
University of Utah, U.S.A
Dissertation: Coding and Signaling for Input Constraint Channel
Thesis advisor: Prof. Craig, K, Rushforth,
- M.Sc.** in Electrical Engineering (Communications), 1988
Isfahan University of Technology, IRAN
Dissertation: Adaptive Clutter Cancellation in Radar
Thesis Advisor: Prof. Golestani
- B.S.** in Electrical Engineering (Electronics), 1986
Isfahan University of Technology, IRAN

Professional Experience:

Academic Position

- **Professor**, Elec. Eng. Dept., *Sharif University of Technology*, 2004- Present
- **Associate Professor**, Elec. Eng. Dept., *Sharif University of Technology*, 2000-2004

- **Assistant Professor**, Elec. Eng. Dept., *Sharif University of Technology*, 1994- 2000
- **Technical Instructor**, Elec. Eng. Dept., *Isfahan University of Technology*, 1988-1989

Other Affiliation and Roles

- **Editor of IEEE Trans. on Communications**, *Molecular Communications and Cognitive radio*, 2014- present
- Editor of IEEE Trans. on MBMC, 2016-present
- **Member (Minister representative) of assessment and promotion committee**, *Tehran University*, Aug. 2017-present
- **Member of University Assessment and Promotion Committee**, *Sharif University of Technology*, 2003-2010, and 2014-present
- Invited Member of Electrical and Computer Engineering Group, *Iran Academic of Science, Engineering branch*, 2018-present
- **Member of Women in Engineering work group**, *Iran Academic of Science, Engineering branch*, 2015-present
- **Member of Women Research Promotion work group**, *Iran National Science Foundation*, 2018-present
- **Member of Iran National Science Foundation-Engineering Committee/Workgroup**, Jan. 2012- Present
- **Member of EE Department Assessment and Promotion Committee**, *Sharif University of Technology*, 2003-Present
- **Member of EE Department Hiring Committee**, *Sharif University of Technology*, Sept. 2006-present
- **Member of University Honor Students Affairs Committee**, *Sharif University of Technology*, Sept. 2003- 2007
- **Director of Center of Excellence in Communications**, *Sharif University of Technology*, Sept. 1997- 2001
- **Director of Mobile Communication Group**, *Advanced Communication Research Center (ACRI)*, *Sharif University of Technology*, 2004-present
- **Vice-President of Graduate education Affairs**, *Elec. Eng. Department*, *Sharif University of Technology*, June 2004-2006 and June 2010-June 2011
- **Member of Engineering Committee**, *National Elites Foundation*, 2012-2013
- **Director of Telecommunication Group**, *EE. Dept.*, *Sharif Univ. of Technology*, 1998-2002
- **Director of Wireless Research Lab.**, *EE Dept.*, *Sharif Univ. of Technology*, 1999-present
- **Director of Mobile Test Lab.**, *EE Dept.*, *Sharif Univ. of Technology*, 2009-Present:
- **Co-Director of Advanced and Wideband CDMA Lab at Iran Telecom Research Center (ITRC)**, 1999-June 2001
- **Chair of Women In Engineering (WIE) Committee**, *IEEE Iran Section*, Jan. 2013-2016

Awards

- **Distinguished Researcher of EE Department**, *Sharif University of Technology*, 2005
- **Distinguished Lecturer of EE Department**, *Sharif University of Technology*, 2007
- **Distinguished Scientist of Mazandaran Province**, *Mazandaran Governor*, 2010
- Distinguished Professor in Engineering, *Iran Academy of Science*, 2017
- **The 2014 Premium Award for Best Paper in IET Communications** (for the best research papers published during last two years)

Grants and Funded Research (in Last 8 years)

- **INSF International Research chair on Nano Communication Networks**, for 5 years starting Sept. 2015 (total 3,000,000,000)
- **Green Communication in Multi-Relay Wireless Networks** (total \$90000) for 2015-2017, Swedish Research Council
- **Molecular Communications** (\$10000), 2013 Viterbi School of Engineering ResearchInnovation Fund Grant, University of Southern California, USA
- **Cooperative Communications for Wireless Communications**, (Rials 400,000,000), SUT, 2004-2007
- **Cognitive Communications and Resource Allocations**, (Rials450,000,000), SUT, 2008-2012
- **Design of DS-CDMA Receivers**, (Rials 500,000,000), SAIRAN, 2009-2010
- **Efficient Modulation and Detection for UWB Communications**, (Rials250,000,000), INSF, 2003-2005
- **Spectrum Sensing at low SNR Regime** (Rials500,000,000), Advanced Data Cop. 2005-2006
- **Establishing a Test lab. for wireless Mobile Communication**, (Rials 23,000,000,000), ITRC , 2007-2012

Ph.D Thesis Supervised:

- Fatemeh Mokhtari “*Multiple access techniques for 5G wireless networks*”
- Gholamali Aminian “*Efficient Transmission and Achievable Rates at Molecular Communication Networks*”
- Reza Mosayebi “*Efficient Methods for Transmission and Reception of Information in Molecular Communication Systems*”
- Mohsen Hejazi “*Harnessing Interference in Cooperative and Cognitive Communication Networks*”
- **Hamidreza Arjmandi “Information Transfer in Molecular Bio-Nano Communication Networks,”**
- Azam Sadat Hosseinzadeh-Salati “**Interference Management in Two Tier Femtocell Networks,**”
- Mazda Hamdi “**Multiple Access Schemes for Infrared Wireless Network with Diffusion Links,**”
- Hossein Charmchi “**Information Theoretic Analysis of Cognitive Radio Networks**”,
- Mehdi Karimi “**Cooperative Communication in Free-Space Optical Networks**”,
- Zolfa Zeinalpour-Yazdi “**Performance Analysis of Ultra-Wide Band (UWB) Communication with a Relay Node**”,
- Abbas Taherpour “**Spectrum Sensing in Cognitive Radio Networks**”
- Azizollah Jamshidi “**Coded Cooperative Communications**”
- Paeiz Azmi “**Advanced Coding and Decoding Schemes for Optical CDMA Communication Systems**”,
- G.Shayesteh “**Multiuser Detection in DS/CDMA Systems Using Artificial Intelligence**”, Mahrokh,

More than 20 invited Talks: in different conferences in electrical engineering, and in industries and universities.

Talks and organizing panels on “**Women in Engineering: Opportunities and Challenges**”, in several universities and in Iran Academy of Science

Selected Invited talks and Tutorials:

- “**Molecular Communications: Opportunities and Challenges**,” ICEE 2017, Iran
- “**An Introduction to Molecular Communications**,” Iran Academy of Science, 2015
- “**on Bounded Memory Decoders for Molecular Communications**”, ITA 2014, San Diego, USA
- “**Diffusion Based Molecular Communications: Efficient Modulator and simple near optimal Decoder**”, EE Department, USC, 2014, USA
- “**Diffusion Based Molecular Communications**” IWCIT 2014, Tehran, IRAN
- “**Cognitive Radio**” ICEE, 2013, Mashhad, IRAN
- “**Cooperative and Cognitive Communications**”, SUT, 2012

- “*UWB Communications*” SUT, 2009

Publications

Book:

Chapter entitled “*Cyclostationary Spectrum Sensing in Cognitive Radios at Low SNR Regimes*,” written by M. Derakhshani, M. Nasiri-Kenari, and Le-Ngoc, in book, “*Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Access and Management*”, Published by IGI Global 2014

Refereed Journals

1. S. M. Azimi-Araghouyi, M. Nasiri-Kenari, M. Debba, Stochastic Design and Analysis of User-centric Wireless Cloud Caching networks, IEEE Trans on Wireless Communications, 2020
2. S. Aeeneh, N. Zalatanovz, A Gohari, M. Nasiri-Kenari, and M. Mirmohseni, “Timing Modulation for Macro-Scale Molecular Communication,” IEEE Wireless Communications Letters, 2020
3. A. Abdollai Bafghi, M. Mirmohseni, F. Ashtiani, and M. Nasiri-Kenari, “Joint Optimization of Power Consumption and Transmission Delay in a Cache-Enabled C-RAN,” IEEE Wireless Communications Letters, 2020
4. E. Sadeghabadi, M. Azimi-Abarghouyi, B. Makki, M. Nasiri-Kenari, and T. Svensson, “Asynchronous Downlink Massive MIMO Networks: A Stochastic Geometry Approach,” IEEE Trans on Wireless Communications, 2020
5. N. Ghoroghchian, M. Mirmohseni, and M. Nasiri-Kenari, “Abnormality Detection and Monitoring in Multi-Sensor Molecular Communication,” IEEE Transactions on Molecular, Biological and Multi-Scale Communications, 2019
6. **F Mokhtari, MR Mili, F Eslami, F Ashtiani, B Makki, M Mirmohseni, M. Nasiri-Kenari, “Download Elastic Traffic Rate Optimization via NOMA Protocols,” to be appeared IEEE Transactions on Vehicular Technology, 2019**
7. L. Khaloopour, M. Mirmohseni and M. Nasiri-Kenari, “Adaptive Release Duration Modulation for Limited Molecule Production and Storage,” IEEE Transactions on Molecular, Biological and Multi-Scale Communications, 2019
8. L.Khaloopour, V Rouzegar, A. Azizi, A. Hosseinian, M. Farahnak-Ghazani, N. Bagheri, M. mirmohseni, H. Arjmandi, R. Mosayebi and M. Nasiri-Kenari, “An Experimental Platform for Macro-Scale Fluidic Medium Molecular Communication,” IEEE Transactions on Molecular, Biological and Multi-Scale Communications, 2019
9. **R Mosayebi, A Ahmadzadeh, W Wicke, V Jamali, R Schober, and M. Nasiri-Kenari, “Early Cancer Detection in Blood Vessels Using Mobile Nanosensors,” IEEE Transactions on Nanobioscience, 2019**
10. **M Farahnak-Ghazani, G Aminian, M Mirmohseni, A Gohari, M. Nasiri-Kenari, “On Medium Chemical Reaction in Diffusion-Based Molecular Communication: a Two-Way Relaying Example,” IEEE Transactions on Communications, 2019**

11. **SM Azimi-Abarghouyi, B Makki, M. Nasiri-Kenari, and T Svensson, "Stochastic Geometry Modeling and Analysis of Finite Millimeter Wave Wireless Networks," IEEE Transactions on Vehicular Technology, 2019**
12. **H Ghourchian, G Aminian, A Gohari, M Mirmohseni, M Nasiri-Kenari, "On the Capacity of a Class of Signal-Dependent Noise Channels, IEEE Transactions on Information Theory 64 (12), 2018**
13. **HG Bafghi, G. Aminian, A Gohari, M Mirmohseni, and M Nasiri-Kenari, "Diffusion Based Molecular Communication with Limited Molecule Production Rate," IEEE Transactions MBMC, 2018**
14. **S. M. Azimi-Abarghouyi; M. Nasiri-Kenari; B. Maham; M. Hejazi, "Integer Forcing-and-Forward Transceiver Design for MIMO Multi-Pair Two-Way Relaying," IEEE Transactions on Vehicular Technology, 2018.**
15. **SM Azimi-Abarghouyi, B Makki, M Haenggi, M Nasiri-Kenari, and T Svensson, "Stochastic geometry modeling and analysis of single-and multi-cluster wireless networks," IEEE Transactions on Communications, 2018**
9. **R. Mosayebi, A. Gohari, M. Mirmohseni, and M. Nasiri-Kenai, "Type Based Sign Modulation and its Application for ISI mitigation in Molecular Communication", IEEE Trans. Communications., 66 (1), 2018**
10. **R Mosayebi, V Jamali, N Ghoroghchian, R Schober, M Nasiri-Kenari, "Cooperative abnormality detection via diffusive molecular communications," IEEE Transactions on Nanobioscience 16 (8), 828-842, 2017**
11. **M. Haghighifam, MR Mili, B. Maki, M. Nasiri-Kenai, T. Swenson, "Joint Sum Rate and Error Probability Optimization: Finite Block length Analysis," IEEE Wireless Communications Letters, 2017**
12. **B. Maki, C. Fang, T. Swenson, M. Nasiri-Kenai, M. Zorzi, "Delay Sensitive Area Spectral Efficiency: A Performance Metric for Delay Constrained Green Networks, IEEE Trans. Communications, 2017**
13. **A. Gohari, M. Mirmohseni, M. Nasiri-Kenari, "Information Theory of Molecular Communications: Directions and Challenges , " IEEE TMBMC, 2016 (Invited paper)**
14. **H. Arjmandi, M Movahednasab, A. Gohari, M. Nasiri-kenari, and F. Fekri, "On ISI Avoiding Modulations for Diffusion-based Molecular Communication," IEEE Transactions on Molecular, Biological and Multi-Scale Communications, 2016.**
15. **S. M. Azimi-Abarghouyi, M. Hejazi, B. Makki, M. Nasiri-Kenari, T. Svensson, "Decentralized Compute-and-Forward for Ad Hoc Networks," IEEE Wireless Communications Letters , 2016.**

16. H. Arjmandi, A. Ahmadzadeh, R. Schonberg, and M. Nasiri-Kenari, "Ion Channel Based Bio-Synthetic Modulator for Diffusive Molecular Communication," *IEEE Trans. Nanobioscience*, 2016
17. M. Movahednasab, M. Soleimanifar, A. Gohari, M. Nasiri-Kenari and U. Mitra, "Adaptive Transmission Rate With a Fixed Threshold Decoder for Diffusion-Based Molecular Communication," *IEEE Transactions on Communications*, vol. 64, no. 1, pp. 236-248, Jan. 2016.
18. G. Aminian, H. Arjmandi, A. Gohari, M. Nasiri-Kenari and U. Mitra, "Capacity of Diffusion-Based Molecular Communication Networks Over LTI-Poisson Channels," *IEEE Transactions on Molecular, Biological and Multi-Scale Communications*, vol. 1, no. 2, pp. 188-201, June 2015.
19. S. M. Azimi-Abarghouyi, M. Hejazi and M. Nasiri-Kenari, "Compute-and-forward two-way relaying," *IET Communications*, vol. 9, no. 4, pp. 451-459, 3 5 2015.
20. F. Sheikholeslami, M. Nasiri-Kenari and F. Ashtiani, "Optimal Probabilistic Initial and Target Channel Selection for Spectrum Handoff in Cognitive Radio Networks," *IEEE Transactions on Wireless Communications*, vol. 14, no. 1, pp. 570-584, Jan. 2015.
21. M. Hejazi; S. m. Azimi-Abarghouyi; B. Makki; M. Nasiri-Kenari; T. Svensson, "Robust Successive Compute-and-Forward over Multi-User Multi-Relay Networks," to be appeared, *IEEE Transactions on Vehicular Technology*, 2015.
22. G. Aminian, M. Farahnak-Ghazani, M. Mirmohseni, M. Nasiri-Kenari and F. Fekri, "On the Capacity of Point-to-Point and Multiple-Access Molecular Communications With Ligand-Receptors," *IEEE Transactions on Molecular, Biological and Multi-Scale Communications*, vol. 1, no. 4, pp. 331-346, Dec. 2015.
23. B. Makki, T. Svensson, T. Eriksson and M. Nasiri-Kenari, "On the Throughput and Outage Probability of Multi-Relay Networks With Imperfect Power Amplifiers," *IEEE Transactions on Wireless Communications*, vol. 14, no. 9, pp. 4994-5008, Sept. 2015.
24. Reza Mosayebi, Hamidreza Arjmandi, Amin Gohari, Masoumeh Nasiri Kenari, Urbashi Mitra, "Receivers for Diffusion Based Molecular Communication: Exploiting Memory and Sampling Rate," *IEEE Journal on Selected Areas in Communications*, Vol. 32, no. 12, pp. 2368 - 2380, 2014.
25. Karbalay-Ghareh, A.; Nasiri-Kenari, M.; Hejazi, M. "Convolutional Network-Coded Cooperation in Multi-Source Networks with a Multi-Antenna Relay," *Wireless Communications, IEEE Transactions on*, Vol. 13, no. 8, pp. 4323 - 4333, 2014.
26. Salaty, A.; Nasiri-Kenari, M. "Aggregate Interference Modeling and Static Resource Allocation in Closed and Open Access Femtocells," *Communications, IET*, Vol. 7, no. 8, pp. 1007 - 1016, 2014.

27. Arjmandi, H.; Gohari, A.; Nasiri Kenari, M.; Bateni, F., "Diffusion-Based Nanonetworking: A New Modulation Technique and Performance Analysis," *Communications Letters, IEEE*, vol.17, no.4, pp.645,648, April 2013.
28. Hejazi, M.; Nasiri-Kenari, M., "Simplified compute-and-forward and its performance analysis," *Communications, IET*, vol.7, no.18, pp.2054,2063, December 17 2013.
29. H. Shokri-Ghadikolaei, F. Sheikholeslami, and M. Nasiri-Kenari, "Distributed Multiuser Sequential Channel Sensing Schemes in Multichannel Cognitive Radio Networks," *Wireless Communications, IEEE Transactions on*, vol. PP, pp. 1-13, 2013.
30. H. Charmchi, G. A. Hodtani, and M. Nasiri-Kenari, "A New Outer Bound for a Class of Interference Channels with a Cognitive Relay and a Certain Capacity Result," *Communications Letters, IEEE*, vol. 17, pp. 241-244, 2013.
31. H. Shokri-Ghadikolaei, Y. Abdi, and M. Nasiri-Kenari, "Analytical and learning-based spectrum sensing time optimisation in cognitive radio systems," *Communications, IET*, vol. 7, pp. 480-489, 2013.
32. S. Ayoughi, M. Nasiri-Kenari, and B. Hossein Khalaj, "On Degrees of Freedom of the Cognitive MIMO Two Interfering Multiple Access Channels," *Vehicular Technology, IEEE Transactions on*, vol. PP, pp. 1-1, 2013.
33. Z. Zeinalpour-Yazdi, M. Nasiri-Kenari, and B. Aazhang, "Performance of UWB Linked Relay Network with Time-Reversed Transmission in the Presence of Channel Estimation Error," *Wireless Communications, IEEE Transactions on*, vol. 11, pp. 2958-2969, 2012.
34. H. Shokri-Ghadikolaei and M. Nasiri-Kenari, "Sensing matrix setting schemes for cognitive networks and their performance analysis," *Communications, IET*, vol. 6, pp. 3026-3035, 2012.
35. A. Sharifi, F. Ashtiani, H. Keshavarz, and M. Nasiri-Kenari, "Impact of Cognition and Cooperation on MAC Layer Performance Metrics, Part I: Maximum Stable Throughput," *Wireless Communications, IEEE Transactions on*, vol. 11, pp. 4252-4263, 2012.
36. M. Karimi and M. Nasiri-Kenari, "Free Space Optical Communications via Optical Amplify-and-Forward Relaying," *IEEE Lightwave Technology, Journal of*, vol. 29, pp. 242-248, 2011.
37. M. Derakhshani, T. Le-Ngoc, and M. Nasiri-Kenari, "Efficient Cooperative Cyclostationary Spectrum Sensing in Cognitive Radios at Low SNR Regimes," *Wireless Communications, IEEE Transactions on*, vol. 10, pp. 3754-3764, 2011.
38. Z. Zeinalpour-Yazdi, M. Nasiri-Kenari, and B. Aazhang, "Bit error probability analysis of UWB communications with a relay node," *Wireless Communications, IEEE Transactions on*, vol. 9, pp. 802-813, 2010.

39. A. Taherpour, M. Nasiri-Kenari, and S. Gazor, "Multiple antenna spectrum sensing in cognitive radios," *Wireless Communications, IEEE Transactions on*, vol. 9, pp. 814-823, 2010.
40. M. Karimi and M. Nasiri-Kenari, "Outage analysis of relay-assisted free-space optical communications," *Communications, IET*, vol. 4, pp. 1423-1432, 2010.
41. S. Golrezaei-Khuzani and M. Nasiri-Kenari, "Orthogonal frequency division multiple access-based cognitive radio networks with relaying capability," *Communications, IET*, vol. 4, pp. 395-409, 2010.
42. H. Charmchi and M. Nasiri-Kenari, "Achievable rates with quantised channel state information in a multiple-access channel with one cognitive transmitter," *Communications, IET*, vol. 4, pp. 1373-1380, 2010.
43. Z. Zeinalpour-Yazdi, M. Nasiri-Kenari, B. Aazhang, J. Wehinger, and C. F. Mecklenbrauker, "Bounds on the delay-constrained capacity of UWB communication with a relay node," *Wireless Communications, IEEE Transactions on*, vol. 8, pp. 2265-2273, 2009.
44. A. Taherpour, S. Gazor, and M. Nasiri-Kenari, "Invariant wideband spectrum sensing under unknown variances," *Wireless Communications, IEEE Transactions on*, vol. 8, pp. 2182-2186, 2009.
45. F. S. Tabataba and M. Nasiri-Kenari, "Internally coded time-hopping coherent ultra-short light pulse code division multiple access scheme with optical amplifier and its performance analysis using additive noise model," *Communications, IET*, vol. 3, pp. 75-82, 2009.
46. M. G. Shayesteh and M. Nasiri-Kenari, "Multiple-Access Performance Analysis of Combined Time-Hopping and Spread-Time CDMA System in the Presence of Narrowband Interference," *Vehicular Technology, IEEE Transactions on*, vol. 58, pp. 1315-1328, 2009.
47. M. Karimi, M. Nasiri-Kenari, F. S. Tabataba, and S. M. Aghajanzadeh, "Multistage decoding for an internally coded fibre-optic time-hopping/optical code division multiple access communication system," *Communications, IET*, vol. 3, pp. 655-665, 2009.
48. M. Karimi and M. Nasiri-Kenari, "An internally coded TH/OCDMA scheme for fiber optic communication systems and its performance analysis-part II: using frame time hopping code," *Communications, IEEE Transactions on*, vol. 57, pp. 50-55, 2009.
49. M. Karimi and M. Nasiri-Kenari, "BER Analysis of Cooperative Systems in Free-Space Optical Networks," *Lightwave Technology, Journal of*, vol. 27, pp. 5639-5647, 2009.
50. A. Taherpour, S. Gazor, and M. Nasiri-Kenari, "Wideband spectrum sensing in unknown white Gaussian noise," *Communications, IET*, vol. 2, pp. 763-771, 2008.

51. M. G. Shayesteh and M. Nasiri-Kenari, "Internally coded multicarrier frequency-hopping CDMA communication system and its performance analysis," *Communications, IET*, vol. 2, pp. 255-265, 2008.
52. A. Jamshidi and M. Nasiri-Kenari, "Performance Analysis of Transmitter-Side Cooperation–Receiver-Side-Relaying Schemes for Heterogeneous Sensor Networks," *Vehicular Technology, IEEE Transactions on*, vol. 57, pp. 1548-1563, 2008.
53. A. Taherpour, Y. Norouzi, M. Nasiri-Kenari, A. Jamshidi, and Z. Zeinalpour-Yazdi, "Asymptotically optimum detection of primary user in cognitive radio networks," *Communications, IET*, vol. 1, pp. 1138-1145, 2007.
54. F. S. Tabataba, S. M. Aghajanzadeh, M. Nasiri-Kenari, and M. Karimi, "Performance Analysis of Internally Coded Time-Hopping Coherent Ultrashort Light Pulse CDMA Scheme in Fiber-Optic Communication Systems," *IEEE Lightwave Technology, Journal of*, vol. 25, pp. 1095-1106, 2007.
55. A. Nezampour, M. Nasiri-Kenari, and M. G. Shayesteh, "Internally coded TH--UWB--CDMA system and its performance evaluation," *Communications, IET*, vol. 1, pp. 225-232, 2007.
56. M. Karimi and M. Nasiri-Kenari, "An Internally Coded TH/OCDMA Scheme for Fiber Optic Communication Systems and Its Performance Analysis—Part I: Using Optical Orthogonal Code," *Communications, IEEE Transactions on*, vol. 55, pp. 333-344, 2007.
57. A. Jamshidi, M. Nasiri-Kenari, Z. Zeinalpour, and A. Taherpour, "Space-frequency coded cooperation in OFDM multiple-access wireless networks," *Communications, IET*, vol. 1, pp. 1152-1160, 2007.
58. Z. Zeinalpour-Yazdi and M. Nasiri-Kenari, "Performance analysis and comparisons of different ultra-wideband multiple access modulation schemes," *Communications, IEE Proceedings-*, vol. 153, pp. 705-718, 2006.
59. M. Nasiri-Kenari and M. G. Shayesteh, "Performance analysis and comparison of different multirate TH-UWB systems: uncoded and coded schemes," *Communications, IEE Proceedings-*, vol. 152, pp. 833-844, 2005.
60. A. R. Forouzan, M. Nasiri-Kenari, and N. Rezaee, "Frame time-hopping patterns in multirate optical CDMA networks using conventional and multicode schemes," *Communications, IEEE Transactions on*, vol. 53, pp. 863-875, 2005.
61. P. Azmi, M. Nasiri-Kenari, and J. A. Salehi, "Internally channel-coded framed time-hopping fiber-optic CDMA communications," *Lightwave Technology, IEEE Journal of*, vol. 23, pp. 3702-3707, 2005.

62. K. R. Rad and M. Nasiri-Kenari, "Iterative detection for V-BLAST MIMO communication systems based on expectation maximisation algorithm," *IEE Electronics Letters*, vol. 40, pp. 684-685, 2004.
63. A. S. Motahari and M. Nasiri-Kenari, "Multiuser detections for optical CDMA networks based on expectation-maximization algorithm," *Communications, IEEE Transactions on*, vol. 52, pp. 652-660, 2004.
64. M. Ebrahimi and M. Nasiri-Kenari, "Performance analysis of multicarrier frequency-hopping (MC-FH) code-division multiple-access systems: uncoded and coded schemes," *Vehicular Technology, IEEE Transactions on*, vol. 53, pp. 968-981, 2004.
65. P. Azmi, M. Nasiri-Kenari, and J.A. Salehi, "Soft-Input Decoder for Decoding of Poisson-Noise Internally Channel Coded Fiber-Optic CDMA Communication Systems," *Communications, IEEE Trans. on*, Vol. 50, pp. 1994-2002, Dec. 2002.
66. P. Azmi, M. Nasiri-Kenari, and J.A. Salehi, "Multistage Decoding for Internally Bandwidth Efficient Coded Fiber-Optic CDMA Communication Systems," *Light wave Technology, IEEE Journal of*, Aug. 2002, pp. 1342- 1350.
67. A. R. Forouzan, J.A. Salehi and M. Nasiri-Kenari, "Frame Time-Hopping Fiber-Optic Code Division Multiple-Access Using Generalized Optical Orthogonal Codes," *Communications, IEEE Trans. on*, Vol. 50, pp. 1971-1983, Dec. 2002.
68. H. Farmanbar and M. Nasiri-Kenari, "Iterative Multiuser Detection and Decoding for Coded CDMA Systems in Frequency-Selective Fading Channels," *Communications, IEICE Trans. on*, Vol. 85., 2002
69. M. G. Shayesteh, J.A. Salehi, and M. Nasiri-Kenari, "Spread-Time CDMA Resistance in Fading Channels," *Wireless Communications, IEEE Trans. on*, Vol. 2, pp. 446-458, May. 2003.
70. Amir R. Forouzan, M. Nasiri-Kenari, and J.A. Salehi, "Performance Analysis of Time Hopping Spread-Spectrum Multiple Access Systems: Uncoded and Coded Schemes," *Wireless Communications, IEEE Trans. on*, pp. 671-682, Oct. 2002.
71. P. Azmi, M. Nasiri-Kenari, "Narrow-Band Interference Suppression in CDMA Spread-Spectrum Communication Systems Based on Sub-Optimum Unitary Transforms," *Communications, IEICE Trans. on*, Vol. 85-B, pp. 239-247, Jan. 2002.
72. P. Azmi, M. Nasiri-Kenari, "A Generalized Fourier Transform-Domain Technique for Narrow- Band Interference Suppression in CDMA Communication Systems," *IEE ELECTRONICS LETTERS*, May. 2001.
73. M. Ebrahimi and M. Nasiri-Kenari, "Iterative Interference Cancellation for a Coded Multicarrier FH-CDMA Systems," appeared in *Scientia* 2004.
74. R. Nikjah and M. Nasiri-Kenari, "Unified Multiple-Access Performance Analysis of Several Multi-rate Multicarrier," appeared in *Scientia* 2004.
75. H. R. Ahmadi, M. Nasiri-Kenari, and M. G. Shayesteh, "Performance Analysis of Time Hopping Ultra-Wideband Systems," appeared in *Scientia*. 2004

76. P. Azmi, M. Nasiri-Kenari, and J.A. Salehi, "Low-rate Super Orthogonal Channel Coding for Fiber-Optic CDMA Communication Systems," *Light wave Technology, IEEE Journal of*, June. 2001.
77. M. J. Borran and M. Nasiri-Kenari, "An Efficient Detection Technique for Synchronous CDMA Communication Systems based on Expectation Maximization Algorithm," *Vehicular Tech, IEEE Trans. on*, Vol. 49, Sept. 2000.
78. M. Nasiri-Kenari, R.R. Sylvester, and C.K. Rushforth, "An Efficient Soft-In-Soft-Out Multi User Detector for Synchronous CDMA with Error Correcting Codes," *Vehicular Tech, IEEE Trans. on*, Vol. 47, Aug. 1998.
79. M. Nasiri-Kenari et al., "A Reduced Complexity Sequence Detector with Soft Outputs for Partial-Response Channels," *Communications, IEEE Trans. on*, Vol. 44, Dec. 1996.
80. M. Nasiri-Kenari, et al., "A Class of DC-Free Subcodes of Convolutional Codes," *Communications, IEEE Trans. on*, Vol. 44, Nov. 1996.
81. M. Nasiri-Kenari, et. al., "Matched Spectral-Null Codes with Soft-Decision Outputs," *Communications, IEEE Trans. on*, Vol. 43, Feb. 1995.
82. M. Nasiri-Kenari, et al., "Some Construction Methods for Error-Correcting (d,k) Codes," *Communications, IEEE Trans. on*, Vol. 42, Feb. 1994.

Refereed Conferences (last 10 years)

1. L. Khaloopour, M. Mirmohseni, M. Nasiri-Kenari, "An adaptive pulse-width modulation for limited molecule production and storage," Iran Workshop on Communication and Information Theory (IWCIT), 2018
2. N. Abadi, A.A. Gohari, M. Mirmohseni, M. Nasiri-Kenari, "Zero-error codes for multi-type molecular communication in random delay channel," Iran Workshop on Communication and Information Theory (IWCIT), 2018
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