

Curriculum Vitae (C.V.)

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Prof. Paeiz Azmi, PhD.

*Full Professor of Electrical Engineering,
Senior Member of IEEE*

Personal Information:	Place of Birth: Tehran-Iran Birth Date: April 17, 1974 Marital Status: Married - Two Children
Education:	<u>1998 – 2002 : Sharif University of Technology, Tehran-Iran</u> Ph.D./Communications. Ph.D. Thesis: Advanced Coding and Decoding Schemes for Optical CDMA Communication Systems <u>1996 – 1998 : Sharif University of Technology, Tehran-Iran</u> M.Sc./Communications. M.Sc. Thesis: Narrow-Band Interference Suppression in CDMA Systems. <u>1992 – 1996 : Sharif University of Technology, Tehran-Iran</u> B.Sc./ Electronics. B.Sc. Project: Coherent Lightwave Communication Systems.
Professional experiences:	<u>September 2002- Now : Tarbiat Modares University, Tehran-Iran</u> Academic Positions include: Jun. 2011- Now : Full Professor, Elect. Eng. Dept. Jan. 2006- Jun. 2011: Associate Professor, Elect. Eng. Dept. Sept. 2002- Jan. 2006: Assistant Professor, Elect. Eng. Dept.

Administration Positions include:

Nov. 2006- Now : Director of Wireless Com. Lab. of Elect. Eng. Dept.
Dec 2016- Now : Secretary of Faculty Member Promotion
Committee of Elect. Eng. Dept.
Nov. 2016-Now : Deputy of Teaching Affairs of Elect. & Computer
Eng. Faculty
Mar. 2011- Jan 2016 : Director of Open Education Office
Feb. 2012- March 2015 : Secretary of Performance Evaluation Council of
Elect. Eng. Dept.
May 2009- April 2011 : Deputy of Teaching Affairs of Elect. & Computer
Eng. Faculty
April 2008- May 2011 : Deputy of Teaching Affairs of Engineering Faculty
Oct. 2007- March 2010 : Member of Editorial B. of Mod. Tech. & Eng. J.
Oct. 2005- Dec. 2006 : Member of Research Council of Eng. Faculty
April 2003- Dec. 2006 : Director of Comput. Lab. of Electrical Eng. Dept.
April 2003- April 2005 : Director of Communications Engineering Group

Taught Graduate Courses include:

MIMO Communications
Wireless Communications
Estimation and Detection Theory
Estimation Theory
Spectral Estimation
Stochastic Processes
Advanced Wireless Communication Systems
Error Control Coding Theory
Information Theory
Digital Communication Systems
Advanced Theory of Communications
Spread Spectrum Communication Systems

September 2002- Now : Sharif University of Technology, Tehran-Iran

Research at :

Advanced Communications Research Institute (ACRI)

Taught Courses Include:

Digital Communication Systems
Digital Communication Systems Laboratory

1999 – 2010: Iran Telecom. Research Center (ITRC), Tehran-Iran

Research at the following Laboratories:

Signal Processing and Multimedia Research Laboratory
Advanced/Wide-band Research Laboratory
Advanced Communication Science Research Laboratory

Member of Radio Telecommunication Technical Group

Research Interests:	Estimation and Detection Theory, Wireless Communication Systems, Information and Coding Theories, and Digital Signal Processing.
Supervised Students:	<p><u>PhD Students (Graduation Year):</u></p> <ol style="list-style-type: none"> 1- J.Taghipour (2018) 2- F.Darakeh (2018) (Co-Supervisor: Iranian Research Organization for Science and Technology) 3- K.Heydari (2018) 4- S.S.Kashef (2018) 5- N.Tavakkoli (2017) 6- A.Mokdad (2017) 7- N.Madani (2017) 8- M.Sinaei(2016) 9- S.Efazati (2015) 10- M.R.Ahadiat (2014) (Science and Research Branch, Islamic Azad Univ.) 11- N. Mokari (2014) 12- H. Sadeghi (2013) 13- M.Moradkhani (2013) (Science and Research Branch, Islamic Azad Univ.) 14- A.A. Khazaei (2013) (Science and Research Branch, Islamic Azad Univ.) 15- A. R. Rahmati (2012) 16- M.Dashti (2012) (Science and Research Branch, Islamic Azad Univ.) 17- H. Khani (2010) 18- K. Salehi Nobandegani (2010) 19- R. Alihemmati (2009) 20- A. Haghbini (2009) 21- A.R. Momen (2009) (Science and Research Branch, Islamic Azad Univ.) 22- H. Samimi (2008) <p><u>MSc. (Graduation Year):</u></p> <ol style="list-style-type: none"> 1- M.Golestani (2018) 2- J.Hassanzadeh (2018) 3- S.Ghorbani (2017) 4- A. Rezaei (2016) 5- M.H. Gholami (2016) 6- M.Jahandideh (2016) 7- M.H.Foroutan (2016) 8- M.Moltafet (2016) 9- M.Forouzesh (2016) 10- A.Karimi Kelayeh (2016) 11- T.Meshkian(2016) 12- M. Mosahebfard (2016) 13- A.R. Hadipourzadeh (2015) 14- M.T.Dabiri (2015) 15- A. Mardi (2015) 16- J.Nooralahi (2015) 17- F.S. Shishevan (2014)

	18- A.H. Abdoli Ashtiani (2014) (Imam Hossein Comprehensive University) 19- K.Gorbani (2013) (Imam Hossein Comprehensive University) 20- A. Etemadi, (2013) 21- S.S. Kashef (2013) 22- S. Fooladi (2013) 23- M. Tohidi (2012) 24- A. Haji-Jamali (2012) 25- A. Koohestani (2012) 26- M.S. Zarandi (2012) 27- H. Arezumand (2012) 28- M. Soflaei (2011) 29- M. Bavand (2011) 30- S.A. Hadei (2011) 31- Y. Abdi (2011) 32- S. Efazati (2010) 33- F. Dorri (2009) 34- H. Sadeghi (2009) 35- B. Ehterami (2008) 36- T. Shojaezand (2008) 37- A. Rahmati (2007) 38- J. Abbasian (2007) 39- A. Mirzaee (2007) 40- N. Tavakkoli (2006) 41- M.M. Sarmadi (2006) 42- E. Nekoie (2006) 43- K.S. Nobandegani (2005) 44- H. Khani (2005) 45- A.R. Enayati, (2004) 46- R. Alihemmati (2004)
Patents:	1- A. Rahmati, and P.Azmi, <i>Iterative Reconstruction System for Multicarrier OFDM Systems over Deep Fading Channels</i> , Iran Patent no. 68344 filed on 12/01/2011. 2- J. Abbasian, and P.Azmi, <i>Adaptive MIMO Communication System via Coding and Modulation Adaptation</i> , Iran Patent no. 67708 filed on 04/12/2010. 3- R.Alihemmati, and P.Azmi, <i>Turbo Multiuser Detector for 4QAM-MC-CDMA Communication System</i> , Iran Patent no. 67107 filed on 20/10/2010. 4- A.Haghbin, and P.Azmi, <i>Precoding for MIMO Communication Systems based on EM Algorithm</i> , Iran Patent no. 66131 filed on 15/08/2010. 5- H.Khani, and P.Azmi, <i>Weighted UWB-Time Reference Communication System</i> , Iran Patent no. 65654 filed on 20/07/2010.
Books:	1- P.Azmi, and H.Sadeghi, <i>Spectrum Sensing in Cognitive Radio Networks</i> , Tarbiat Modares University Press, 2017.

Papers & Publications	<p><u>Journal Papers:</u></p> <p>[129] .R.Rahmati, K.Raahemifar, T.A. Tsiftsis, A.Anpalagan, and P.Azmi, "OFDM Signal Recovery in Deep Faded Erasure Channel," <i>IEEE Access</i>, published online at: DOI: 10.1109/ ACCESS.2018.2876646.</p> <p>[128] A.Mokdad, P.Azmi, N.Mokari, M.Moltafet, and M. Gaffari-Miab, "Cross-Layer Energy Efficient Resource Allocation in PD-NOMA based H-CRANS: Implementation via GPU," <i>IEEE Transactions on Mobile Computing</i>, published online at: DOI: 10.1109/TMC.2018.2860985</p> <p>[127] F.Darakeh, G.R. Mohammad-Khani, and P.Azmi, "CRWSNP: Cooperative Range-Free Wireless Sensor Network Positioning Algorithm," <i>Springer Wireless Networks</i>, vol. 24, Issue 8, pp. 2881-2897, Nov. 2018.</p> <p>[126] Z. Hassanshahi, A.R.Rahmati, and P.Azmi, "Passive Mobile Localization Based on the Air Signaling in Cellular Networks," <i>Advanced Defense Science and Technology</i>, vol. 9, no. 3, pp. 259-263, Fall 2018.</p> <p>[124] F. Darakeh, G.R. Mohammad-Khani, and P.Azmi, "DCRL-WSN: A Distributed Cooperative and Range-free Localization Algorithm for WSNs," <i>Elsevier AEUE International Journal of Electronics and Communications</i>, vol. 93, pp. 289-295, September 2018.</p> <p>[124] M.Kashiha, P.Azmi, and B. Mahboobi, "A Worst-Case Robust Combination Method of Beam-Forming and Orthogonal Space-Time Block Coding," <i>Springer Wireless Personal Communications</i>, vol. 101, issue 4, pp. 1929-1938, August 2018.</p> <p>[123] M.Sinaie, P.Lin, A.Zappone, P.Azmi, and E.A. Jorswieck, "Delay Aware Resource allocation for 5G Wireless Networks with Wireless Power Transfer," <i>IEEE Transactions on Vehicular Technology</i>, vol. 67, issue 7, pp. 5841-5855, July 2018.</p> <p>[122] J.Taghipour, P.Azmi, and N. Mokari, "A Novel Physical Layer Security Approach in OFDMA-MISO Networks in the Presence of Non-cooperative and Cooperative Adversary Users with Unknown Mode," <i>Transactions on Emerging Telecommunications Technologies</i>, vol. 29, issue 6, pp. 1-18, June 2018.</p> <p>[121] K.Heydari, P.Azmi, B. Abbasi-Arand, and A.Heydari, "Detection of the Chirp Signal Features caused by Doppler Phenomenon in the Presence of Destructive Agents based on Cyclostationary and Hough Transform Methods," <i>IET Signal Processing</i>, vol. 12, issue 4, pp. 394-402, June 2018.</p> <p>[120] S.S. Kashef, P.Azmi, G. Bosco, M.Matinfar, and D.Pilori, "Non-Gaussian Statistics of CO-OFDM Signals after Non-Linear Optical Fiber Transmission," <i>IET Optoelectronics</i>, vol. 12, issue 3, pp. 150-155, June 2018.</p> <p>[119] S.S.Kashef, and P.Azmi, "Performance Analysis of Non-Linear Fiber Optic in CO-OFDM Systems with High order Modulations," <i>IEEE Photonics Technology Letters</i>, vol. 30, no. 8, pp. 696-699, April 2018.</p> <p>[118] A.Hooshiary, P.Azmi, N. Mokari, and S.Maleki, "Optimal Channel Selection for Simultaneous RF Energy Harvesting and Data Transmission in Cognitive Radio Networks," <i>Transactions on Emerging Telecommunications Technologies</i>, vol. 29, issue 3, pp. 1-16, March 2018.</p> <p>[117] M.Moltafet, P.Azmi, N.Mokari, M.R.Javan, and A.Mokdad, "Optimal and</p>
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<p>Papers & Publications</p>	<p>Fair Energy Efficient Resource Allocation for Energy Harvesting Enabled-PD-NOMA based HeNets," <i>IEEE Transactions on Wireless Communications</i>, vol. 17, no. 3, pp. 2054-2067, March 2018.</p> <p>[116] M.Moltafet, N.Mokari, M.R.Javan, and P.Azmi, "Comparison Study between NOMA and SCMA," <i>IEEE Transactions on Vehicular Technology</i>, vol. 67, no. 2, pp. 1830-1834, Feb. 2018.</p> <p>[115] T.Shojaeezand, G.R. Mohammad-Khani, and P.Azmi, "Variance Analysis of The New Method of Applying Multiuser Detection in a GPS Receiver in High Dynamic Conditions," <i>Springer Wireless Personal Communications</i>, vol. 98, issue 2, pp. 2107-2119, Jan. 2018.</p> <p>[114] K.Heydari, P.Azmi, and B. Abbasi-Arand, "SNR Improvement in Semi Active Radars Using Parameters of Signal Spectrum," <i>Journal of Radar</i>, vol. 5, issue 4, pp. 49-60, Winter 2018.</p> <p>[113] F. Darakeh, G.R. Mohammad-Khani, and P.Azmi, "A Distributed Area based Method for WSN Localization," <i>CSI Journal on Computer Science and Engineering</i>, vol. 14, no. 2, pp. 50-59, Winter 2017.</p> <p>[112] N.Tavakkoli, P.Azmi, and N. Mokari, "Optimal Positioning of Relay Node in Cooperative Molecular Communication Networks," <i>IEEE Transactions on Communications</i>, vol. 65, no. 12, pp. 5293-5304, Dec. 2017.</p> <p>[111] M.H.Gholami, P.Azmi, N.Mokari, and M.Forouzesh, "Radio Resource Allocation in Heterogeneous Cellular Networks based on Effective Capacity Maximization: Perspective Mobile Data Offloading," <i>Transactions on Emerging Telecommunications Technologies</i>, vol. 28, no.12, Dec. 2017.</p> <p>[110] A.R.Rahmati, K.Raahemifar, A.Anpalagan, T.A. Tsiftsis, P.Azmi, and N.I. Miridakis, "Superposition Modulation based on Oversampled OFDM Signals," <i>IEEE Transactions on Communications</i>, vol.65, no. 11, pp. 4791-4802, Nov. 2017.</p> <p>[109] N.Madani, and P.Azmi, "Power Saving Transmission in Interference Networks," <i>IET Communications</i>, vol. 11, issue 10, pp. 1574-1581, July 2017.</p> <p>[108] A.Mardi, P.Azmi, N.Mokari, and S. Parsaeefard, "Resource Allocation for Full-Duplex based Heterogeneous Cellular Networks Considering Back-haul Capacity," <i>Transactions on Emerging Telecommunications Technologies</i>, vol. 28, issue 7, July 2017.</p> <p>[107] N.Tavakkoli, P.Azmi, and N.Mokari, "Performance Evaluation and Optimal Detection of Relay-Assisted Diffusion-Based Molecular Communication with Drift," <i>IEEE Transactions on Nanobioscience</i>, vol. 16, no. 1, pp. 34-42, January 2017.</p> <p>[106] M.Sinaie, and P. Azmi, "Qos-Driven Resource Allocation in Green OFDMA Wireless Networks," <i>Wiley International Journal of Communication Systems</i>, vol. 30, Issue 2, e2949, January 2017.</p> <p>[105] M.R. Ahadiat, P.Azmi, and A. Haghbin, "Impulsive Noise Estimation and Suppression in OFDM Systems over in-home Power Line Channels," <i>Wiley International Journal of Communication Systems</i>, vol. 30, Issue 1, e2831, January 2017.</p> <p>[104] M.Forouzesh, and P.Azmi, "Secure Full Duplex Communications in</p>
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<p>Papers & Publications</p>	<p>the Presence of Malicious Adversary," <i>Modares Journal Electrical Engineering</i>, vol. 16, No. 2, pp. 32-37, Summer 2016.</p> <p>[103] A.Mokdad, P.Azmi, and N.Mokari, "Radio Resource Allocation for Heterogeneous Traffic in GFDM-NOMA Heterogeneous Cellular Networks," <i>IET Communications</i>, vol. 10, Issue 12, pp. 1444-1455, August 2016.</p> <p>[102] S.Efazati, and P.Azmi, "Cross Layer Power Allocation for Selection Relaying and Incremental Relaying Protocols over Single Relay Networks," <i>IEEE Trans. on Wireless Com</i>, vol. 15, Issue 7, pp. 4598-4610, July 2016.</p> <p>[101] S.Efazati, and P.Azmi, "Quality of Service Analysis and Improvement with Cross Layer Power Allocation in Multi-Relay Networks," <i>Wiley Wireless Communications and Mobile Computing</i>, vol. 16, Issue 9, pp. 996-1008, June 2016.</p> <p>[100] K.Heydari, P.Azmi, B. Abbasi, and A. Heydari, "Parameter Estimation for FM Signals in Two Stages:Non Uniform Fast Fourier Transform (NUFFT) and Short Time-Frequency Transform," <i>Journal of Fundamental and Applied Sciences</i>, vol. 8, no. 2S, pp. 467-477, June 2016.</p> <p>[99] K.Heydari, P.Azmi, B. Abbasi, and A. Heydari, "Determining the Parameters of Chirp Signals Using Cyclostationary Method in Method in Presence of the Interference," <i>Journal of Fundamental and Applied Sciences</i>, vol. 8, no. 2S, pp. 478-486, June 2016.</p> <p>[98] M.Sinaie, A. Zappone, E. Jorswieck, and P.Azmi, "A Novel Power Consumption Model for Effective Energy Efficiency in Wireless Networks," <i>IEEE Wireless Communications Letters</i>, vol. 5, Issue 2, pp. 152-155, Feb. 2016.</p> <p>[97] N. Mokari, S. Parsaeefard, P.Azmi, and H.Saeedi, "Robust Ergodic Uplink Resource Allocation in Underlay OFDMA Cognitive Radio Networks," <i>IEEE Trans. on Mobile Computing</i>, vol.15, no. 2, pp.419-431, February 2016.</p> <p>[96] M.R. Ahadiat, P.Azmi, and A. Haghbin, "BER Performance Analysis of MIMO-OFDM Communication Systems Using Iterative Technique Over Indoor Power Line Channels in an Impulsive Noise Environment," <i>Journal of Information Systems and Telecommunications</i>, vol. 4, no. 1, pp. 35-41, Jan-March 2016.</p> <p>[95] M.Moltafet, and P.Azmi, "Energy-Efficient Resource Allocation in NOMA-based HCN Systems," <i>Modares Journal Electrical Engineering</i>, vol. 15, Issue 3, pp. 35-41, Summer 2015.</p> <p>[94] M.Sinaie, and P. Azmi, "Low Complexity Delay-Aware Energy Efficient Power Allocation in Multicarrier Wireless Networks," <i>Springer Wireless Personal Communications</i>, vol. 82, Issue 4, pp. 1987-2003, June 2015</p> <p>[93] S.Efazati, and P.Azmi, "Statistical Quality of Service Provisioning in Multiuser Centralized Networks," <i>IET Communications</i>, vol. 9, issue 5, pp. 621-629, May 2015.</p> <p>[92] M. Moltafet, A. Karimi-Kelaye, M. Foruzesh, and P.Azmi, "Resource Allocation in SCMA-based System," <i>Modares Journal Electrical Engineering</i>, 15, Issue 1, pp. 9-14, Spring 2015.</p>
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<p>Papers & Publications</p>	<p>[91] N.Madani, and P.Azmi, "Towards a Fair Spectrum Access Strategy in Device-to-Device Communications," <i>Modares Journal Electrical Engineering</i>, vol. 15, Issue 1, pp. 15-19, Spring 2015.</p> <p>[90] M.Moradkhani, P.Azmi, and M.A. Pourmina, "Optimized Reliable Data Combining Cooperative Spectrum Sensing Method in Cognitive Radio Networks," <i>Elsevier Computers and Electrical Engineering</i>, vol. 42, no. 2, pp. 221-231, Feb. 2015.</p> <p>[89] N. Mokari, S. Parsaeefard, H.Saeedi, P.Azmi, and E. Hossain, "Secure Robust Ergodic Uplink Resource Allocation in Relay-Assisted Cognitive Radio Networks," <i>IEEE Trans. on Signal Processing</i>, vol. 63, no. 2, pp. 291-304, January 2015.</p> <p>[88] Mokari, P.Azmi, and H. Saeedi, "Quantized Ergodic Radio Resource Allocation in Cognitive Femto Networks with Controlled Collision and Power Outage Probabilities," <i>IEEE Journal on Selected Areas in Communications</i>, vol.32, no. 11, 2090-2104, Nov. 2014.</p> <p>[87] H. Sadeghi, and P.Azmi, "Performance Analysis of Linear Cooperative Cyclostationary Spectrum Sensing over Nakagami-m Fading Channels," <i>IEEE Trans. on Veh. Tech.</i>, vol. 63, no. 9, pp. 4748-4756, November 2014.</p> <p>[86] N. Mokari, P.Azmi, and H. Saeedi, "Quantized Ergodic Radio Resource Allocation in Cognitive Networks with Guaranteed Quality of Service for Primary Network," <i>IEEE Trans. on Veh. Tech.</i>, vol. 63, no. 8, pp. 3774-3782, October 2014.</p> <p>[85] K. Gorbani, and P.Azmi, "Blind OFDM Recognition in Wideband Satellites," <i>Electronic and Cyber Defense Journal</i>, vol. 2, pp. 1-8, Summer 2014.</p> <p>[84] M.Soflaei, and P.Azmi, "Low Complexity Adaptive Equalizers for Underwater Acoustic Communications," <i>Springer China Ocean Engineering</i>, vol. 28, no. 4, pp. 529-540, August 2014.</p> <p>[83] S.S. Kashef, P.Azmi, and H. Sadeghi, "GoF-Based Spectrum Sensing of OFDM Signals over Fading Channels," <i>Journal of Information Systems and Telecommunications</i>, vol. 2, no. 2, pp. 103-112, April-June 2014.</p> <p>[82] M. Soflaei, and P.Azmi, "Adaptive Equalizer Using Selective Partial Update Algorithm and Selective Regressor Affine Projection Algorithm over Shallow Water Acoustic Channels," <i>Shock and Vibration Journal</i>, vol. 2014, Article ID 676497, pp. 1-5, May 2014.</p> <p>[81] S. Efazati, and P.Azmi, "Effective Capacity Maximization in Multi Relay Networks with a Novel Cross Layer Transmission Framework and Power allocation Scheme," <i>IEEE Trans. on Veh. Tech.</i>, vol. 63, no.4, pp. 1691-1702, May 2014.</p> <p>[80] A. Haji Jamail, and P.Azmi, "PSO Algorithm Assisted Multiuser Detection and Inter Symbol Interference Suppression in CDMA Communications," <i>Journal of Information Systems and Telecommunications</i>, vol. 2, no. 1, pp. 47-54, Jan-March 2014.</p> <p>[79] M.S. Tohidi, and P.Azmi, "Low Complexity Throughput-based Antenna Selection Method," <i>Springer Wireless Personal Communications</i>, vol. 75, no. 1, pp. 385-396, March 2014.</p>
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Publications**

- [78]. N. Mokari, S. Parsaeefard, H. Saeedi, and P. Azmi, "Cooperative Resource Allocation in Cognitive Radio Networks with Guaranteed Secure Rate for Primary Users," *IEEE Trans. on Wireless Com.*, vol. 13, no. 2, pp. 1058-1073, Feb. 2014.
- [77] M.Moradkhani, P.Azmi, and M.A. Pourmina, "Optimized Reliable Data Combining Cooperative Spectrum Sensing Method in Cognitive Radio Networks," *Springer Wireless Personal Communications*, vol. 74, no. 2, pp. 569-773, Jan. 2014.
- [76] N. Mokari, P.Azmi, and H. Saeedi, "Quantized Ergodic Resource Allocation in OFDMA-based Cognitive DF Relay-assisted Networks," *IEEE Trans. on Wireless Com*, vol.12, no. 10, pp. 5110-5123, Oct. 2013.
- [75] H. Sadeghi, and P.Azmi, "Cyclic Correlation-Based Cooperative Detection for OFDM-Based Primary Users," *Journal of Information Systems and Telecommunications*, vol. 1, no. 3, pp. 13-22, July-September 2013.
- [74] A. Kuhestani, and P. Azmi, "Design of Efficient Full-rate Linear Dispersion Space-Time Block Codes over Correlated Fading Channels vol. 7, Issue 12, pp. 1243-1253, August 2013.
- [73] M.Dashti, P.Azmi, K. Navaie, S.M.Razavizadeh, "Ergodic Sum Rate Maximization for Underlay Spectrum Sharing with Heterogeneous Traffic," *Springer Wireless Personal Communications*, vol. 71, no. 1, pp. 589-610, July 2013.
- [72] A.A.Khazaei, and P.Azmi, "A New Approach of Channel Modeling in HAPS based Networks and Their System Performance Analysis," *Springer Wireless Personal Communications*, vol. 70, no. 1, pp. 69-84, May 2013
- [71] M. Saeedzarand, and P.Azmi, "Cooperative multiband joint detection in cognitive radio networks using artificial immune system," *Springer Annals of Telecommunications*, vol. 68, issue 3-4, pp. 239-246, April 2013.
- [70] M. Dashti, P.Azmi, and K. Navaie, "Harmonic Mean Rate Fairness for Cognitive Radio Networks with Heterogeneous traffic," *Wiley Emerging Telecommunications Technologies*, vol. 24, issue 2, pp. 185-195, March 2013.
- [69] S.A.Hosseini, S.A.Hadei, M.B.Menhaj, and P.Azmi, "Fast Euclidean Detection Search Algorithm in Adaptive Noise Cancellation and System Identification," *International Journal of Innovative Computing, Information and Control*, vol. 9, no. 1, pp. 191-206, Jan. 2013.
- [68] M. Dashti, P.Azmi, and K. Navaie, "Radio Resource Allocation for Orthogonal Frequency Division-based Underlay Cognitive Radio Networks Utilizing Weighted Ergodic Rates," *IET Communications*, vol. 6, Issue 16, pp. 2543-2552, November 2012.
- [67] A.R. Enayati, P.Azmi, Y. Taghinia, and A. Salahi, "A Novel Bandwidth Efficient SOC-based Turbo Coding Scheme mid Reduced Complexity MUD for SA-based MC-CDMA Systems," *Springer Telecommunication Systems*, vol. 50, no. 2, pp. 71-88, June 2012.
- [66] M.Dashti, and P.Azmi, "Joint Power and Rate Allocation in CDMA-based Underlay Cognitive radio Networks for a Mixture of Streaming and Elastic traffic," *Eurasip Journal on Wireless Communications and networking*, vol. 262, pp. 1-12, 2012.
- [65] P.Azmi, and T. ShojaeZand, "An Iterative Multiuser Detector for

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