

International Journal of Inventive

Engineering and Sciences

ISSN : 2319- 9598

Website: www.ijies.org

Volume-4 Issue-3, October 2016

Published by:

Blue Eyes Intelligence Engineering and Sciences Publication Pvt.



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1.	Authors:	Hamdy Mohamed Soliman		
	Paper Title:	Effect of the Error in the Rotor Reactance of the Induction Motor on its Performance Characteristics with DTC Compared to Scalar Control		
	<p>Abstract: Direct torque control of induction motors has achieved a quick torque response. It is very sensitive to flux estimation (magnitude and orientation). The flux estimation is affected by parameters variation. These parameters are affecting saturation, temperature, and skin effect. The mismatching between the parameters value used in the controller and those in the motor make the actual rotor flux position does not coincide with the position assumed by the controller. Any parameter mismatched in flux estimation will be detrimentally affect the torque response and then on the dynamic performance. So this paper shows the effect of mismatching in rotor reactance between the control model and the machine itself on the performance characteristics of induction motor through applying the direct torque control. The rotor reactance is chosen due to have more effect on the instantaneous slip speed. To show this effect, the mismatching case is compared to matching case and with scalar control. MATLAB program is used to simulate these cases.</p> <p>Keywords: Direct torque control, Induction motor, Rotor reactance error, Scalar control.</p> <p>References:</p> <ol style="list-style-type: none"> 1. M.D. Murphy, F.G Turnball Power electronic control of A.C motors, Pergamon press, 1986. 2. Bose B.K: Power Electronics and Variable Frequency Drives, IEEE Press, 1997. 3. W.B Rosink, "Analogue control system for A.C motor with PWM variable speed," in proceedings of Electronic Components and Application, vol. 3, no. 1, pp. 6-15, May 1980. 4. B.G. Starr, J.C.F. Van Loon, "LSI circuit for AC motor speed control," in proceedings of Electronic Components and Application, vol. 2, no. 4, pp. 219-229, August 1980. 5. F. Blaschke, "The Principle of Field Orientation Applied to the New Transvector Closed-Loop Control System for Rotating Field Machines," Siemens-Rev., vol. 39, pp. 217-220, 1972. 6. W. Leonhard, "Field Orientation for Controlling AC Machines Principle and Application," A tutorial, IEE conf. on power electronic variable speed drives conf. pub. No. 291, London, pp. 277-282,1988. 7. R.Krishnan, F.C. Doran, "Study of parameter sensitivity in high performance and inverter fed Induction motor drive system," IEEE Transactions on Industry Applications. Vol. IA-23 No.4, pp.623-635, 1986. 8. R. Krishnan, A.S. Bhardawaj, "A Review of Parameter sensitivity and adaptation in Industrial vector controlled Induction motor drive system," IEEE Trans. on Power Electronics, Vol.6, No.4, 1991 pp.219-225, 1991. 9. Hamid.A. Toliyat, Emil Levi, Mona Raina, "A Review of RFO Induction motor parameter Estimation Technique," IEEE Transaction on Energy Conversions, Vol.18, No.2, pp 356-365, 2003. 10. Hamdy Mohamed Soliman, "Studying the Steady State Performance Characteristics of Induction Motor with Field Oriented Control Comparing to Scalar Control," EJERS, European Journal of Engineering Research and Science, Vol. 1, No. 2, pp 18-25, 2016. 11. G. Buja et al., Direct torque control of induction motor drives, IEEE ISIE Conf. Rec., pp. TU2-TU8, 1997. 12. Burak Ozpineci, L.M.Tolbert, Simulink Implementation of Induction Machine Model-A modular approach, IEEE Trans. 2003. 13. [Siva Ganesh Malla," A Review on Direct Torque Control (DTC) of Induction Motor: with Applications of Fuzzy" International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), pp. 132 – 142, 2016 			1-5
2.	Authors:	A. Sanyasi Rao, N. Shilpa		
	Paper Title:	A Novel Fuzzy Filter for Random Impulse Noise Removal in a Color Video		
	<p>Abstract: Now a day's digital image processing applications are widely used in various fields such as medical, military, satellite, remote sensing and even web applications also. In any application denoising of image/video is a challenging task because noise removal will increase the digital quality of an image or video and will improve the perceptual visual quality. In spite of the great success of many denoising algorithms, they tend to smooth the fine scale image textures when removing noise, degrading the image visual quality. To address this problem, a new fuzzy filter for the removal of random impulse noise in color video is presented. By working with different successive filtering steps, a very good tradeoff between detail preservation and noise removal is obtained. The experiments show that the proposed method outperforms other state-of-the-art filters both visually and in terms of objective quality measures such as the mean absolute error (MAE) and the peak-signal-to-noise ratio (PSNR).</p> <p>Keywords: image, medical, military, satellite, fuzzy filter, (MAE), (PSNR), color video.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Buades, A, Coll, B, Morel J.M, "A non-local algorithm for image denoising", IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 20- 26 June 2005, San Diego, CA, USA. 2. Deledalle, V. Duval, and J. Salmon, "Non-local methods with shape adaptive patches (nlm-sap)," J. Math. Imag. Vis., vol. 43, no. 2, pp. 103-120, 2012. 3. Duval, J. Aujol, and Y. Gousseau, "A bias-variance approach for the nonlocal means," SIAM J. Imag. Sci., vol. 			6-8
3.	Authors:	A. Sanyasirao, Ch. Anusha		
	Paper Title:	MIMO Performance Analysis with ALAMOUTI STBC Code and V-Blast Detection Scheme		
	<p>Abstract: An analysis of the performance of Multiple Input Multiple Output (MIMO) antenna systems has been carried out by determining the transmit diversity using Alamouti Space Time Block Coding (STBC) techniques. In this paper our purpose is that, performance analysis of Alamouti STBC and also comparing with SISO performance. It includes definition of SISO system,STBC, after that Alamouti STBC theory and its mathematical expressions. Also we define process of project and lastly we give our results for each of SISO, 2x1 and 2x2 Alamouti STBC. This paper also includes study of VBLAST technique, many algorithms have been proposed to reduce the interference in the</p>			9-10

	<p>received signals caused by other transmitters in the system. Also, they aim achieve closer values to the Shannon capacity limit. D-BLAST (Diagonal Bell Labs Layered Space Time) and V-BLAST (Vertical Bell Labs Layered Space Time) are such schemes used for detection and suppression the interference in MIMO systems.</p> <p>Keywords: MIMO, SISO, STBC, VBLAST.</p> <p>References:</p> <ol style="list-style-type: none"> 1. D. Gesbert, M. Shafi, D. Shiu, P. Smith, and A. Naguib, "From theory to practice: an overview of MIMO space-time coded wireless systems," IEEE Journal on selected areas in Communications, vol. 21, no. 3, pp.281–302, 2003. 2. STBC online Wikipedia 3. Luis Miguel Cortés-Peña "MIMO Space-Time Block Coding (STBC): Simulations and Results" DESIGN PROJECT: PERSONAL AND MOBILE COMMUNICATIONS, GEORGIA TECH (ECE6604), APRIL 2009. 4. "A Simple Diversity Technique for Wireless Communication "Siavash M Alamouti, IEEE Journal on selected areas in Communication, Vol 16, No, 8, October 1998 . 5. G.D.Golden, G.J.Foschini, R.A. Valenzuela, and P.W.Wolniasky, "Detection algorithm and initial laboratory results using the V-BLAST space-time communication architecture," Electron Lett.vol.35, no.1, pp.1415, 1999 					
4.	<table border="1"> <tr> <td>Authors:</td> <td>Gideon E. Norvor, Michael Asante, Francis Xavier Kofi Akotoye</td> </tr> <tr> <td>Paper Title:</td> <td>Routing Behavior of IS-IS and OSPFv3 with Database Query, Remote Login, and FTP in IPv6 Networks</td> </tr> </table>	Authors:	Gideon E. Norvor, Michael Asante, Francis Xavier Kofi Akotoye	Paper Title:	Routing Behavior of IS-IS and OSPFv3 with Database Query, Remote Login, and FTP in IPv6 Networks	
Authors:	Gideon E. Norvor, Michael Asante, Francis Xavier Kofi Akotoye					
Paper Title:	Routing Behavior of IS-IS and OSPFv3 with Database Query, Remote Login, and FTP in IPv6 Networks					
	<p>Abstract: IPv6 is the next-generation Internet Protocol developed to solve the problems of IPv4. IPv6 is an innovate step from IPv4. However, both protocols differ in header structure. The difference in header structure between the two protocols means that routing network traffic in IPv6 will no longer be supported by the conventional routing protocols used in IPv4. New routing protocols that are supported by IPv6 must be used. In this paper, performance of two routing protocols supported by IPv6 has been evaluated and compared for some applications such as database query, remote login, and ftp using Riverbed Modeler Academic Edition 17.5. These protocols are OSPFv3 and IS-IS. Performance evaluation is based on database query response time, remote login response time, ftp download/upload response times and traffic received as the main parameters. The main objective of this paper is to compare both protocols and to evaluate their performance in order to determine which of them will be the more suitable one for routing these applications in IPv6. In order to achieve the objective of this paper, two scenarios were used: OSPFv3 scenario and IS-IS scenario. Both scenarios were simulated against the chosen parameters. Overall, simulation results have shown that IS-IS is the more suitable protocol for the selected applications.</p> <p>Keywords: Remote login, Database query, ftp, OSPFv3, IS-IS, and IPv6.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Ali, A. N. A. (2012). Comparison study between IPv4 and IPv6. International Journal of Computer Science Issues, 9(3), doi: ijcsi-9-3-1-3-341-317. 2. Farhangi, S., Rostami A., Golmohammadi, S.(2012). Performance comparison of mixed protocols based on EIGRP, IS-IS and OSPF for real-time applications. Middle-East Journal of Scientific Research, 2(11),1502-1508, doi 10.5829/idosi.mejsr.2012. 12.11.144. 3. Genkov, D. (2011, June). An approach for finding proper packet size in IPv6 networks. In Proceedings of the 12th International Conference on Computer Systems and Technologies, 442-447. ACM. 4. Hopps, C. (2008). Routing IPv6 with IS-IS. RFC5308.[https://www.rfceditor.org/rfc/rfc5308.txt], (accessed 2016 February 18). 5. Kannagi, P., Rajasekar, M. (2013). Performance comparison of routing protocols (OSPF & EIGRP). International Journal of Advanced Research, 1 (3), 13-22 6. Kaur, J., Singh, P. (2014). Simulation based performance analysis of IPv6 based IS-IS, OSPFv3 and OSPFv3_IS-IS protocols. International Journal of Software and Hardware Research Engineering, 2 (8), 25-28. 7. Lammler, T. (2007). CCNA: Cisco Certified Network Associate, Study Guide, 6th edition. Indiana, Indianapolis, Wiley Publishing, Inc. 8. Lemma, E. S. & Angelo, W. (2009). Performance comparison of EIGRP/IS-IS and OSPF/IS-IS [www.diva-portal.org], (accessed 2015 October 6). 9. Pandey, N., Kumar, D., Palwal, H. (2015). Simulation based comparative study on EIGRP/IS-IS and OSPF/IS-IS. International Journal of Engineering Research and General Science, 3 (2), 204-214. 10. Thorenoor, S. G. (2010). Communication service provider's choice between OSPF and IS-IS dynamic routing protocol and implementation criteria using OPNET. In second International Conference on Computer and Network Technology (ICCNT), Bangkok, 38 (42), 23-25. 	11-19				