Publications of Dr. Krishna RajBooks Published during Last Five Years

Sr.	Author	Title of Book	Name of	Year of	ISBN No.
No.			Publisher	Publications	
1.	Krishna Raj , Vibhav	Digital Logic	Acme Learning	2011	978-93-80408-52-1
	Kumar Sachan	Design	New Delhi		
2.	Krishna Raj , Vibhav	Digital	Acme Learning	New Delhi	2010
	Kumar Sachan	Electronics			
3.	Krishna Raj	Signal and	Dhanpat Rai &	New Delhi	Ist Edition –2002,
		system	Co.		2 nd Edition-2003.

Research Papers Published in International Journals

S.No.	Author(s)	Title of Journal	Title of paper	Name of	Year of
211 (01	11001101(5)		Time of puper	Publisher	Publicati
					on
1.	Vishal Awasthi,	International Journal of	Design of an Efficient	World	2014
	Krishna Raj	Computer, Information,	Retimed CIC	Academy of	
		Systems and Control	Compensation Filter	Science,	
		Engineering, Vol:8, No.5,		Engineering	
		pp.745-752.		and	
				Technology	
2.	Vishal Awasthi,	International Journal of	Design of Efficient		2014
	Krishna Raj	Electronics, Electrical and	Digital Filter Using		
		Computational System	Cutset Retiming		
		(IJEECS), Academic	Technique		
		Science, Volume2 (1), pp.25-			
		33.			
3.	Vishal Awasthi,	World Academy of Science,		World	2013
	Krishna Raj	Engineering and		Academy of	
		Technology: International	Decimator Using Signed	Science,	
		Journal of Computer,	Digit Arithmetic	Engineering	
		Information, Systems and		and	
		Control Engineering, Vol:8,		Technology	
		No.5, pp.745-752.			2012
4.	Rajkumar	International Journal of			2013
	Tomar1	Scientific & Engineering	_		
	, Praveen Kumar	Research, Volume 4, Issue 8,			
	Singh2	AUGUST 2013	Applications for Efficient		
	, Krishna Raj3	ISSN 2229-5518 PP 236-	Designing		
5.	Vishal Awasthi,	VSRD International Journal	A Survey on the		2011
3.	Krishna Raj	of Electrical, Electronics &	<u> </u>		2011
	Krisiilia Kaj	, ·			
		Communication Engineering (VSRD IJEECE), pp. 1-	Addets		
		_ · · · _ · // II			
		5,Vol. 1(7)			

6.	Vishal Awasthi, Krishna Raj	International Journal of Electronics Engineering, 3 (2), 2011, pp. 323–329 ISSN : 0973-7383	Compensated CIC Filter	2	2011
7.	Vishal Awasthi, Krishna Raj	International Journal <i>VSRD-TNTJ</i> , <i>Vol.</i> 2 (2), 2011,pp. 73-88, ISSN No.0976-7967	A Survey on the Algorithms of Kalman Filter and Its Variants in State Estimation	2	2011
8.	Vishal Awasthi, Krishna Raj	International Journal of Electronics Engineering, 3(1), pp. 67-71	A Comparison of Kalman Filter and Extended Kalman Filter in State Estimation	2	2011
9.	Vishal Awasthi, Krishna Raj	International Journal of Engineering Science and Technology (IJEST) ISSN: 0975-5462, vol. 3, n0.10, pp.7623-7632, 2011	of Hybrid Signed Digit Arithmetic in Efficient		2011
10.	Vibhav Kumar Sachan, Krishna Raj	International Journal of Active and Passive Electronics Devices, USA, Jan' 2010.			an' 2010.
11.	Vibhav Kumar Sachan, Krishna Raj;	International Journal of Radio Engineering, Czech Republic	5	2	2010
12.	Krishna Raj, Suman Lata	International Journal of Electronics Engineering (IJEE) 2(1) ISSN 0973-7283 Pp 173-175	Fast Processing using Signed digit Number system	2	2010
13.	Vibhav Kumar Sachan, Krishna Raj	International Journal of Active and Passive Electronics Devices, USA, Sep' 2009.	Performance Analysis of orthogonal space- Time Block Codes for Wireless Communication systems,		Sep' 2009.
14.	Krishna Raj, Brijesh Kumar, Poornima Singh	International Journal of Computer Science and Network security, ISSN 1738-7906, pp. 107-115.	"FPGA implementation and mask level CMOS layout design of Redundant Binary Signed Digit Comparator."	2	2009

Research Papers Published in National Journals

Sr.	Authors	Title of paper	Name of Publisher	Year	of
No.				Publication	n

Krishna Raj	LE Lab Experiments, Vol-6,	FIR	Filter	Design	
	No4, December-2006.	Technique	es"		
Krishna Raj	LE Lab Experiments, Vol-6,	Analysis	of clipper	circuit	
	No3, September-2006.	using PSP	ICE simulat	ion"	

Research Papers Published/ Presented in International Conferences

S.N o.	Author(s)	Title of paper	Name of Organizer (Institution)	Name of University	Conference Date and Year
1.	Vishal Awasthi, Krishna Raj	Development of Optimum Addition Algorithm Using Modified Parallel Hybrid Signed Digit (MPHSD) Technique	3 rd IEEE International Advance Computing Conference (IACC-2013), at AKGEC Gaziabad (U.P.), February 22- 23,2013	UPTU	February 22-23,2013
2.	Krishna Raj, Praveen Kumar Singh, Rajkumar Tomar	A review of low cost multiplier using CORDIC subsystem	International Conference ICPCES-2012, MNNIT Allahabad	MNNIT Allahabad	978-1- 4673-1049- 9/12/\$31.00 ©2012 IEEE
3.	Vidyadhar Gupta, Krishna Raj	An Efficient Modified Lifting Based 2-D Discrete Wavelet Transform Architecture	1 st International Conference on "Recent Advances in Information Technology (RAIT- 2012), March 15-17, 2012		March 15- 17, 2012
4.	Ashish Chaturvedi, Krishna Raj, Amrish Kumar	A Comparative Analysis of LMS and NLMS Algorithm for Adaptive Filteration of compressed ECG Signal	International Conference ICPCES-2012, MNNIT Allahabad	MNNIT Allahabad	ICPCES- 2012,
5.	Ashish Chaturvedi, Krishna Raj, Madhuri Mishra	Power-Spectrum Analysis of 50 Hz cancellation of ECG signal using Adaptive filtering	International Conference ICES-2012, SASTRA UNIVERSITY in Tamil Naidu	SASTRA UNIVERSITY in Tamil Naidu	ICES-2012
6.	Krishna Raj, Vedvrat	DWT Architectures for Image Applications	International conference ICMARS- 2010, Jodhpur	Jodhpur	2010
7.	Krishna Raj, Vedvrat	A study of VLSI Architectures for 2-D Discrete Wavelet Transform	IEEE International conference on Power, Control and Embedded Systems (ICPCES),Nov.29-Dec1, 2010		Nov.29- Dec1, 2010

8.	Krishna Raj, V.Yadav	A tutorial on universal look-ahead algorithm for pipelining IIR filter	IEEE International conference on Power, Control and Embedded Systems (ICPCES),Nov.29-Dec1, 2010		Nov.29- Dec1, 2010
9.	Krishna Raj	Signed Digit Number System for Fast Processing	IEEE International conference on Innovative Technologies (ICIT-09) at PDM College of Engineering. Bahadurgarh and IEEE-IMS/EMBS (Delhi)	PDM College of Engineering. Bahadurgarh and IEEE- IMS/EMBS (Delhi)	June 18-19, 2009
10.	Krishna Raj	"Low Power VLSI Circuit Design of First Stage of RBSD Parallel Adder",	International conference on Information & Communication Technology (IICT-07), July 26-28, 2007, at DIT Dehradoon.	DIT Dehradoon.	July 26-28, 2007
11.	T.R.Lenka, K. Raj	A Novel Approach for an Efficient Multiplier using Redundant Binary Signed Digit Number System	11 th IEEE International Symosium on VLSI design at Kolkota, Aug 8- 11, 2007	Kolkota,	Aug 8-11, 2007
12.	T.R.Lenka, K. Raj	Performance Comparison of 4 Bit parallel RBSD adder with 4 bit QSD adder	International conference on Embedded Systems, Mobile Communication and Computing, August 3-5, 2007		August 3-5, 2007
13.	Amit Mishra, zahiruddin, Krishna Raj	Implementation Of A Digital Neuron With Nonlinear Activation Function Using Piecewise Linear Approximation Technique	IEEE ICM-December 2007, 978-4244-1847-307/52500@2007 IEEE PP.73-76	IEEE ICM- December 2007, 978- 4244-1847- 307/52500@2 007 IEEE PP.73-76	December 2007,
14.	Krishna Raj	"Detection and correction of limit cycle oscillations in second order recursive digital filter",	The Ist IEEE International conference on computers, communications and signal processing (CCSP 2005), University Teknology, Kuala Lumpur, Malaysia.	University Teknology, Kuala Lumpur, Malaysia.	November 14-16,2005.

15.	Krishna Raj	Modeling the effect of	First international	Guru Nanak	Jan, 22-
		the introduction of fault	conference on industrial	Dev	25,2001.
		tolerance on the	and applied mathematics	University,	
		performances of VLSI	in Indian Subcontinents at	Amritsar	
		system"	Guru Nanak Dev	India,	
			University, Amritsar		
			India,		
16.	Krishna Raj,	"Arithmetic and logic	International conference	ICCs- 99,	1999
	B.P. singh	implementation of	of "Cognitive system"	R&D/IRIs,	
		RBSD number	ICCs- 99, R&D/IRIs,	NIIT Ltd.,	
		system", Number	NIIT Ltd., New Delhi,	New Delhi,	
		system"	India.	India.	

Research Papers Published/ Presented in National Conferences

S.No.	Author(s)	Title of paper	Name of Organizer (Institution) Name and Place of Conference	Year of Publication
1.	Krishna Raj,	Power Saving in FIR Filter	NCECS-2013, IPEC Ghaziabad	2013
	Praveen	using CORDIC Subsystem as a Multiplier		
	Kumar Singh,	as a manipher		
	Rajkumar Tomar			
2.		Arithmetic of CORDIC	NCECS 2012 IDEC Charished	2013
۷.	Krishna Raj, Rajkumar	and its scaling free	NCECS-2013, IPEC Ghaziabad	2013
	Tomar,	Generalized Micro-rotation		
	Praveen	selection operation		
	Kumar Singh			
3.	Ashish	An Overview of Adaptive	Advances In Materials & Material	August 24-25, 2012
	Chaturvedi,	Filtering as Noise	Selection In Design (AMMSD	,
	Krishna Raj	Cancellation of ECG	2012), HBTI Kanpur	
4.	Madhuri	Signal VLSI Algorithms for	Recent Trends In Communication	Sep 01-02, 2012
4.	Mishra,	Implementation of High	Systems And Devices(NCRTCD	Sep 01-02, 2012
	Krishna Raj	Speed Digital Filters	2012), MEERUT	
5.	Vishal	An Application of Kalman	Signal Processing And Real Time	March 26-27, 2011
	Awasthi,	Filter in state Estimation of	Operating System (SPRTOS-11),	
6.	Krishna Raj Vedvrat,	a Dynamic System A tutorial on Image	HBTI Kanpur Signal Processing And Real Time	March 26-27, 2011
υ.	Krishna Raj	Compression Technique	Operating System (SPRTOS-11),	iviaicii 20-21, 2011
		Compression realingue	HBTI Kanpur	
7.	V. Yadav,	Different Look- Ahead	Signal Processing And Real Time	March 26-27, 2011
	Krishna Raj	Algorithm for Pipelined	Operating System (SPRTOS-11),	
		Implementation of Recursive Digital Filter	HBTI Kanpur	
	L	Recuisive Digital Filter		

8.	Krishna Raj, Ekta Agrawal	Performance Evaluation of Systolic and Semi-systolic Multiplier	Processing, Communication and VLSI Designing-2010 (NCSCV-2010), at S.D.M. College of Engineering and Technology, Dharwad, Karnatka pp. 182-185	2011
9.	Krishna Raj, Suman Bhatt	"Noise Reduction using wiener filtering for speech signal' in		2011
10.	Vivek Kumar, Krishna Raj	Optimal Receiver Filter Design	Signal Processing And Real Time Operating System (SPRTOS-11), HBTI Kanpur	March 26-27, 2011
11.	Vidyadhar Gupta, Krishna Raj	Comparative Study of Lifting Based Discrete Wavelet Transform Architectures	Signal Processing And Real Time Operating System (SPRTOS-11), HBTI Kanpur	March 26-27, 2011
	Krishna Raj, Suman Bhatt	Magnitude & Phase Estimation in Spectral Subtraction,	Proceeding of the IEEE National conference Advanced Communication Technologies and Application(NCACA2009), Geetanjali Institute of Technical Studies Dabok, Udaipur	
13.	Krishna Raj	Redundant Signed Digit Number System for Fast Addition	Proceeding of IE All India Seminar on Energy Management in Indian Perspective, IE Lucknow	
14.	Krishna Raj , Abhinav Tiwari	Low Cost Digital Filter Design using Microcontroller	Proceeding of IE All India Seminar on Energy Management in Indian Perspective, IE Lucknow	October 17-19, 2009
	Krishna Raj, Vibhav Mishra and Vedvrat	Color Image Enhancement by Histogram Equalization Using MATLAB, Proceeding of 2 nd	National conference Wireless and Optical Communication (WOC- 2008), Panjab Engineering College Chandigarh, India, session IV pp.29-33.	2008
	T.R. Lenka, Krishna Raj, Sanjay Agrawal	"FPGA implementation of 2 Bit Redundant Binary Signed Digit Multiplier & A Comparison With Conventional Binary Multiplier"	National conference on ADTECH-GLOS 2007 at GLAITM Mathura, 25-26, Feb. 2007.	2007
17.	Krishna Raj, Vishal Goyal, T.R. Lenka	"VLSI implementation of 4Bit Redundant Binary Signed Digit parallel adder and its application"	National conference on RAECT-06 at GNDEC, Ludhiana, PB, Nov.9-10,2006. Pp 101-106	2006
18.	Krishna Raj, Vishal Goyal, T.R. Lenka	"VLSI implementation of RBSD adder and its application"	National conference on EMITECHMAN at GLA I TM Mathura, 18-19, Feb. 2006.PP 358- 363	2006

	T		<u>, </u>	
19.	T.R. Lenka, Amit Mishra, Vishal Goyal, Krishna Raj,	"FPGA implementation of 2 Bit RBSD Multiplier by using 4 Bit Parallel RBSD Adder"	conference on Advances in Electrical Engineering (AEE 06) at M.I.T.S. Gwalior, November 29-30, 2006PP. 620-625.	2006
20.	Krishna Raj	"Design of carry free redundant binary signed adder"	National conference at MNNIT Allahabad	2006
21.	Krishna Raj	Design of fast VLSI redundant binary signed multiplier",	National seminar on intelligent systems (IS-2000) CSI gwalior chapter, IETE Gwalior subcentre,	Feb. 5-6, 2000.
22.	Krishna Raj	"Design of redundancy binary universal multiplier"	National seminar on intelligent systems (IS-2000) CSI gwalior chapter, IETE Gwalior subcentre,	Feb. 5-6, 2000.
23.	Krishna Raj	Design of FIR filter"	National seminar on intelligent systems (IS-2000) CSI gwalior chapter, IETE Gwalior subcentre,	Feb. 5-6, 2000.
24.	Krishna Raj	"Design of high speed generalized cellular arithmetic arrays."	National seminar on intelligent systems (IS-2000) CSI gwalior chapter, IETE Gwalior subcentre,	Feb. 5-6, 2000.
25.	Krishna Raj	"Power spectrum estimation by papametric methods",	Fourth annual conference of Indian society of Information theory and applications., Bundelkhand University, Jhansi.	Jan. 14-16,2000.
26.	Krishna Raj	"Design of standard and recoded multiplier",	Fourth annual conference of Indian society of Information theory and applications., Bundelkhand University, Jhansi.	Jan. 14-16,2000
27.	Krishna Raj	"Emerging trends in satellite communication"	National seminar on "Role of information technology in 21st century challenges and strategies" Engineering collage, Jabalpur,	11-12 Feb. 1999.
28.	Krishna Raj	"Electronics approach to control the exhaust emission of automobiles"	National seminar of environmental aspects of engineering practices (ENAEP-98),	17-18 April 1998.
29.	Krishna Raj	"RBSD number system for high speed processor"	8th Annual conference of VPI,IET Lucknow, Dec. 15-17,1998.	Dec. 15-17,1998
30.	Krishna Raj	"Discrete circuit modeling of switching devices."	The sixth annual conference of VPI at B.I.E.T. Jhansi, 28-28 Dec. 1996.	28-28 Dec. 1996.