




Faculty Profile

Name	: R. Krishnamoorthy			
Date of Birth	: 26.07.1961			
Highest Qualification	: M.Tech (CSE), Ph.D (CSE)			
Date of Joining	: 16.05.2024			
Designation	: Professor and Principal			
Date of promotion (Present Designation)	:			
Area of Interest	: Digital Image Processing			
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Experience	: Teaching :	41	Industry :	Research : 26
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Association with Professional Bodies

Name (Professional Body)	Institute of Electrical and Electronics Engineering., (IEEE)	Computer Society of India (CSI)	Indian Society for Technical Education	Indian Society for Operation Research
Type of Membership and No.:	Member ID: 41594060	Life Member ID: 16143/1992	Life Member ID: LM 12478/1992	Life Member ID:0894/K/10/ML/2010

Research

Ph. D Guidance					
Supervisor / Guide ship No. :	2140155	University :	Anna University, Trichy	No. of Scholars :	22
Publication*					
International Journals	: 73	National Journals	:	0	
International Conference	: 81	National Conference	:	32	
Project Grants (Research projects guided or undertaken/ Sponsored Projects)					
Received (Amount)	: 65.13 Lakhs	Applied (Amount)	:		
Patent					
Published	: 1	Granted	:	0	

Books

Published :	<ol style="list-style-type: none"> 1. Introduction to Computer Programming, R. Krishnamoorthy, J.J. Publications, India, 1986. 2. Computer Programming in BASIC and FORTRAN, R. Krishnamoorthy, J.J. Publications, India, 1987. 3. Introduction to COBOL Programming, R. Krishnamoorthy, J.J. Publications, India, 1999. 4. Basics of Computer Science, R. Krishnamoorthy, J.J. Publications, India, 1998. 5. Internet and Java Programming, R. Krishnamoorthy and Prabhu, New Age Publishers, India, 2002. 6. Data Structures using C., R. Krishnamoorthy and G.Indirani, Tata-McGraw Hill publishing, New Delhi, India, 2008. 7. Advances in Image Processing, Mining and computing Technology,
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FDPs / STTPs / Workshops / Seminars etc.,

FDP		STTP		Workshop		Seminar		Others	
Attended :	4	Attended :	2	Attended :	1	Attended :	1	Attended :	
Organized :	2	Organized :	0	Organized :	10	Organized :	2	Organized :	

Online courses (NPTEL, MOOC etc.)	Nil
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***List of Publications :**

73. K.Somasundaram, PA. Kalaividya, T.Kalaiselvi, and R. Krishnamoorthy, "Edge detection using Chebyshev's orthogonal polynomials and brain extraction from magnetic resonance images of human head", International journal of Imaging Systems and Technology, John Wiley, 2019.

72. S.R. Bhavani, A. Chilambuchelvan, J. Senthilkumar, D. Manjula, R. Krishnamoorthy and A. Kannan, "A secure cloud based multi-agent intelligent system for mammogram image diagnosis", International Journal of Biomedical Engineering and Technology., Vol. 28, No. 2, pp. 185-202, 2018.

71. R. Krishnamoorthy and G. Devasena, "A Systematic Analysis of Transform Coefficients and Block Decomposition for Texture Enhancement with Orthogonal Polynomials Model", IEEE Transactions on Systems, Man and Cybernetics: Systems", Vol. 47, No. 12, pp. 3245-3255, 2017.

70. R. Krishnamoorthy and S. Thennavan, "Reduction of blocking artifact in JPEG images with orthogonal polynomials", Applied Mathematics, Vol. 11, No. 2, pp. 601-610, 2017.

69. R. Krishnamoorthy and P. Murali, "A Selective Image Encryption Based on Square-Wave Shuffling with Orthogonal Polynomials Transformation Suitable for Mobile Devices", Multimedia Tools and Applications", Vol. 76, No. 1, pp. 1217-1246, Jan. 2017.

68. R. Krishnamoorthy and M. Braveen, "A new optimal feature selection scheme with orthogonal polynomials and Ant colony optimization for Content based video retrieval system", Asian Journal of Information Technology, Vol. 16, pp. 383-391, 2017.

67. R. Krishnamoorthy and G. Annapoorani, "Tradeoff between variable and fixed size normalization in orthogonal polynomials based iris reorganization system", SpringerPlus, Vol. 5, No. 1, pp. 367. 2016.

66. R. Krishnamoorthy and M. Ganesh, "Image Defect Identification with Orthogonal Polynomials Model", Asian Journal of Information Technology, Vol. 15, No. 8, pp. 1389-1395, 2016.

65. R. Krishnamoorthy and M. Ganesh, "A simple computational framework for defect detection system with orthogonal polynomials transcoded coefficients", Journal of Visual Communication and Image Representation, Vol. 41, No. 11, pp. 31-46, 2016.

64. R.Krishnamoorthy and S. Sreedharkumar, "An Improved Agglomerative Clustering Algorithm for Outlier Detection", An International journal of Applied Mathematics & Information Sciences", Vol. 10, No. 3, pp. 1125-1138, 2016. (DOI: dx.doi.org/10.18576/AMIS/100332).

63. R. Krishnamoorthy and J. Kalpana, "Color Image Retrieval technique with local features based on Orthogonal Polynomials model and SIFT", *Multimedia Tools and Applications*, Vol. 75, No. 1, pp. 49-69, 2016.
62. R. Krishnamoorthy and M. Braveen, "Dominant Color and Texture Feature Extraction with Orthogonal Polynomials Model for Content Based Video Retrieval System", *International Journal of Applied Engineering Research*, Vol. 10. No. 92, pp. 43-50, Oct. 2015.
61. R. Krishnamoorthy, S. Thennavan and R. Regina Mercy Angela, "Reduction of Ringing Artifacts in frequency domain with modified Overshot Ripple filter and exponential filter", *Advances in Natural and Applied Sciences*, Vol.9, No.9, pp. 29-36, 2015.
60. Selvaraj Rani Bhavani, Jagatheesan Senthilkumar, Arul Gnanaprakasam Chilambuchelvan, Dhanabalachandran Manjula, Ramasamy Krishnamoorthy and Arputharaj Kannan, "CIMidx: Prototype for a Cloud-Based System to Support Intelligent Medical Image Diagnosis with Efficiency", *JMIR Medical Informatics*, Vol.3, No. 1, doi: 10.2196/mediform.3709, 2015.
59. R. Krishnamoorthy, J. Senthilkumar, D. Manjula and A. Kannan, "A Novel Feature Selection and Discretization Algorithm to Support Medical Image Diagnosis With Efficiency", *International Journal of Soft Computing*, Vol. 10, No. 1, pp. 65-75, 2015.
58. R. Krishnamoorthy and R. Punidha, "Low bit-rate multi stage vector quantization based on energy clustered training set," *Multimedia Tools and Applications*, Springer, Vol. 70, No. 3, pp. 2293-2308, 2014. [I. F: 1.014].
57. R. Krishnamoorthy and N.S.Pradeep, "Design of transmission policies for decode and forward relying in OFDM systems", *Optimization*, Vol. 3, No. 6, 2014.
56. R. Krishnamoorthy and J. Kalpana, "Fast Retrieval of Color Objects with Multidimensional Orthogonal Polynomials", *Multidimensional Systems and Signal Processing*, Springer, Vol. 25, No. 4, pp. 637-657, 2014. [I.F: 0.857].
55. Fenandaz J, G. Annapoorani, and R. Krishnamoorthy, "A simple boundary extraction technique for irregular pupil localization", *International Journal of Information Technology and computer Science*, Vol. 2, No.1, pp. 370, 2013.
54. R. Krishnamoorthy and D. Indra Devi, "A New Snake Model for Pupil Localization using Orthogonal Polynomials Transform", *International Journal of Computer Theory and Engineering*, Vol.5, No.1, pp.36-40, 2013.
53. R. Krishnamoorthy and S. Sathiya Devi, "A Simple Computation Model for Texture based Image Retrieval with Orthogonal Polynomials", *International Journal of Innovation, Management and Technology*, Vol.4, No. 3, pp. 370 – 375, 2013. DOI: 10.7763/IJIMT.2013.V4.424, ISSN: 2010-0248, 2013.
52. R. Krishnamoorthy and S. Sathiya Devi, "Image Retrieval using Edge Based Shape Similarity with Multiresolution Enhanced Orthogonal Polynomials Model", *Digital Signal Processing*, Vol. 23, No. 2, pp.555-568, 2013. [I.F: 1.918]
51. R. Krishnamoorthy and K. R. Suneetha, "User Interest Estimation Using Behavior Monitoring Measure", *International Journal of Soft Computing*, *Medwell Journals*, Vol. 8, No. 6, pp.381-385, ISSN: 18169503, 2013. [H Index: 4]

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49. R. Krishnamoorthy and K. R. Suneetha "An Algorithm for Ranking of Retrieved Web Search Documents Using Personalized User Information and Semantic Smoothing Model", Jokull Journal, Vol. 70, No. 3, pp. 2293-2308, 2013.
48. R. Krishnamoorthy and R. Punidha, "An edge preserving requantization model for colour image coding with orthogonal polynomials," Digital Signal Processing – Elsevier, Vol. 23, No. 4, pp.1163-1170, 2013. [I.F: 1.918]
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45. J. Kalpana and R. Krishnamoorthy "Generalized Adaptive Bayesian Relevance Feedback in the Orthogonal Polynomials Domain", Signal Processing. Vol.92, No.12, pp.3062-3067, 2012. [I.F: 1.851].
44. R. Krishnamoorthy and K. Rajavijayalakshmi, "A New Adaptive Medical Image Coding with Orthogonal Polynomials," International Journal of Computer Applications, Vol. 46, No. 1, pp. 5-12, 2012.
43. R. Krishnamoorthy and S. Sathiya Devi, "A Simple Computational Model for Image Retrieval with Weighted Multi Features Based on Orthogonal Polynomials and Genetic Algorithm", Neuro Computing, Vol. 116, pp.165-181, 2013. [I. F: 1.634]
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31. R. Krishnamoorthy and T. Karthikeyan, "Texture Preserving Image Coding with Orthogonal Polynomials", ICTACT Journal on Image and Video Processing, No. 1, pp. 32-36, 2010.
30. G. Annapoorani, R. Krishnamoorthy, P. Gifty Jeya and S. Petchiammal, "Accurate and Fast Segmentation", International Journal of Engineering Science and Technology, Vol. 2, no. 6, pp. 1492-1499, 2010.
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27. R. Krishnamoorthy and S. A. Sahaaya Arul Mary, "Time-Aware and Weighted Fault Severity based Metrics for Test Case Prioritization", International Journal of Software Engineering and Knowledge Engineering, Vol. 21, No. 1, DOI: 10.1142/ S0218 194011005116, 2011. [H Index: 22]
26. R. Krishnamoorthy, N. Amudhavalli and M.K. Sivakolundu," An Adaptive Mammographic Image Enhancement in Orthogonal polynomials domain", International Journal of Computer and Information Engineering, Vol. 4, No. 2, pp.120-128, 2010.
25. R. Krishnamoorthy, N. Amudhavalli and M.K. Sivakolundu, "Identification of Micro calcifications with orthogonal polynomials model", International Journal of Engineering Science and Technology, Vol. 2, No.5, pp.1204-1210, 2010.
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23. R. Krishnamoorthy and S. Pannirselvam, "A New Scheme for Color based Image Retrieval with Full Range Auto-Regressive (FRAR) Model", International Journal of Advance in Communication (ISSN No: 0975-6094), Vol. 2, No. 1, pp. 37 - 41, 2010.

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20. R. Krishnamoorthy and S. A. Saahaya Arul Mary, "Factor Oriented Requirement Coverage Based System Test Case Prioritization of New and Regression Test Cases", International Journal of Information Software Technology, Vol. 51, No. 4, pp. 799-808, 2009. [I.F: 1.522]
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16. R. Krishnamoorthy and N. Kannan, "A New Integer Image Coding Technique Based on Orthogonal Polynomials", Image and Vision Computing, Vol. 27, No. 8, pp. 999 - 1006, 2009. [I. F 1.959]
15. R. Krishnamoorthy and S. Pannirselvam, "A New Texture Image Retrieval Scheme with Full Range Auto Regressive (FRAR) Model", International Journal of Soft Computing, Vol. 4, No. 5, pp. 229 - 235, 2009. [H Index: 4]
14. R. Krishnamoorthy and P. D. Sheba Kezia Malarchelvi, "Selective Combinational Encryption of Gray Scale Images Using Orthogonal Polynomials based Transformation", International Journal of Computer Science and Network Security, Vol. 8, No. 5, pp. 195-204, 2008.
13. R. Krishnamoorthy and K. Seetharaman, "Image Compression based on a family of stochastic models, Signal Processing, Vol. 87, pp. 408-416, 2007.
12. R. Krishnamoorthy and K. Selvakumar, "Bit Error Rate Analysis in MIMO Systems using STBC and new Reduced Complexity Sphere Decoder," ACCST Research Journal, SIWAN, Vol. 5, No. 4, 2007.
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9. R. Krishnamoorthy, "Transform Coding of Monochrome Images with Statistical Design of Experiments Approach to Separate Noise", Pattern Recognition Letters, Vol. 28, No. 7, pp. 771-777, 2007. [I.F: 1.266]

8. R. Krishnamoorthy and R. Bhavani, "Face Recognition system based on orthogonal polynomials", Journal of Applied Sciences, Vol. 7, No. 1, pp. 109-114, 2006.
7. R. Krishnamoorthy and K. Selvakumar, "Coding Gain Analysis of Orthogonal Polynomials Based Space-Time Block Code," Journal of Theoretical and Applied Information Technology, Vol. 3, No. 1, pp. 12-17, 2006. [H index 5]
6. R. Krishnamoorthy and K. Selvakumar, "Maximum Diversity and Full Rank Space-Time Block Code Based on Orthogonal Polynomials", Journal of Applied Sciences, No. 614-JAS-2006. [H index 16]
5. R. Krishnamoorthy and K. Selvakumar, "Channel Estimation for Orthogonal Polynomial Based Space-Time Block Coded CDMA 2000 in Multipath Fading Channels", Asian Journal of Information Technology, Vol. 5, pp. 906-911, 2006. [H index 3]
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3. R. Krishnamoorthy and K. Seetharaman, "Image Compression Using 2-D Autoregressive Model", Ultra Scientist of Physical Sciences - An International Journal of Physical Sciences, Vol. 17, No. 3, pp. 343-350, 2005. [H index 13]
2. K. Venkatachalapathy, R. Krishnamoorthy and K. Viswanathan, "A New Adaptive Search Strategy for Fast Block Based Motion Estimation Algorithm", Journal on Visual Communication and Image Representation, Vol. 15, No. 2, pp. 203-213, 2004. [I.F: 1.195]
1. R. Krishnamoorthy and P. Bhattacharyya, "Color Edge Extraction Using Orthogonal Polynomials Based Zero Crossings Scheme", International Journal of Information Sciences, Vol. 112, pp. 51-65, 1998. [I.F: 3.643]