

PROFILE

Personal Details

Name : Dr.P.Kumar
Designation : Professor
Date of Joining : 02.01.2003
Nature of Association : Regular
Email : kumar@ksrct.ac.in



Academic Profile

Degree	Institute/University	Specialization	% of Marks / Class obtained	Year & Month of Completion
Ph.D	Anna University Chennai	Wireless Networks	-	Jan 2012
M.Tech	SASTRA	Advanced Communication Systems	8.79(CGPA)	Jan 2003
B.E	Govt. College of Engineering, Salem	ECE	70%	May 1998
HSC	G.B.H.S School, Tiruchengode	-	84%	1993
SSLC	G.H.S School, Kandampalayam	-	83%	1991

Employment details with Experience

S.No	Organization	Designation	Period		Year of Experience
			From	To	
1	K.S.Rangasamy College of Technology	Professor	01.06.2014	Till Date	5.3
2		Associate Professor	01.02.2014	31.05.2014	0.4
3		Assistant Professor	01.06.2008	31.01.2014	5.8
		Senior Lecture	01.06.2006	31.05.2008	2.0
4		Lecturer	01.03.2003	31.05.2006	3.3
Total					16.6

Funds Received

1. Received Rs.50,000 from ICMR, Organized Two Days National Seminar on “Clinical Application of Emerging Sensor Technologies in Diabetes Management” on October 04th & 05th, 2017.
2. Received Rs.40,000 from ICMR, Organized National Conference on “Emerging Trends in Bioelectronics, Information and Communication Technologies” on 12th April, 2017.
3. Received Rs.40,000 from ICMR, Organized Two Days National Seminar on “Smart Health Care Monitoring System using IoT” on September 22nd & 23rd, 2016

List of Publications

1. Sivanandam K, Kumar P, ‘Design and Performance Analysis of Reconfigurable Modified Vedic Multiplier with 3-1-1-2 Compressor’, Elsevier Journal on Microprocessors and Microsystems, 97-106,2019.
2. Kumar P, Priya S.B.M, ‘Principal Component Analysis-Based Block Diagonalization Precoding Algorithm for MU-MIMO System’, In: Muttoo S. (eds) System and Architecture. Advances in Intelligent Systems and Computing, 53-61, 2018.
3. Ramya R, Kumar P, Babykala M, Mugilan D, ‘A Review of Different Classification Techniques Machine Learning Techniques using WEKA for Plant Disease Detection’, International Journal of Engineering and Technology,3818-3822,2018.
4. Kumar P, Prabakar V, ‘The methods to Increase Memory Storage Capacity in NAND Flash Memory: A Review’, International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing,356-362,2018.
5. Sivanandam K, Kumar P, ‘Low-Power High-Performance Multitransform Architecture Using Run-Time Reconfigurable Adder for FPGA and ASIC Implementation’, Book Series:System and Architecture, 63-72,2018.
6. Kumar P, Priya S B M, ‘Design of Low Complex Linear Precoding Scheme for MU-MIMO Systems’, Wireless Personal Communications, 1097-1116,2017.
7. Kumar P, Swaminathan J N, ‘Design of Efficient Power Amplifier Models Using 16-QAM’, Wireless Personal Communications,3003-3012,2017.

8. Kumar P, Priya S B M, 'Design of linear precoder for correlated multiuser MIMO system with imperfect CSI', Elsevier - AEU - International Journal of Electronics and Communications, Volume 74, April 2017, Pages 55-62. <https://doi.org/10.1016/j.aeue.2017.01.017>
9. Swaminathan J N, Kumar P, "A Novel ML-2D-LUT Based Adaptive Predistorter of High Power Amplifier Using New Improved RLS Algorithm", Wireless Personal Communications, vol. 90, no. 2, pp. 807-816, 2016, ISSN 0929-6212.
10. Nagabushanam M, Kumar P, "Multi-Core Lifting DWT Processing Engines for Image Processing", Asian Journal of Information Technology, vol. 15, no. 2, pp. 263-276, 2016, ISSN 1682-3915.
11. Swaminathan J N, Kumar P, "Design of Efficient Adaptive Predistorter for Nonlinear High Power Amplifier", Wireless Personal Communications, vol. 82, no. 2, pp. 1085-1093, 2015, ISSN 0929-6212.
12. Sivanandam, K., and P. Kumar. "Run time reconfigurable modified Vedic multiplier for high speed multimedia applications." In Computing for Sustainable Global Development (INDIACom), 2015 2nd International Conference on, pp. 2109-2113. IEEE, 2015.
13. Priya S B M, Kumar P, "Review of Linear Precoding Algorithms in MU-MIMO Systems", International Journal of Applied Engineering Research, vol. 10, no. 33, pp. 26635-26642, 2015, ISSN 0973-4562.
14. Anupriya A, Kumar P, "A Closed Loop Adaptive Scheme With Loss Differentiation for IEEE 802.11 Multi-Rate Wireless Networks", International Journal of Inventions in Computer Science and Engineering, vol. 2, no. 4, pp. 172-179, 2015, ISSN. 2348- 3539.
15. Ranjith P, Kumar P, "Modified Peak to Average Power Reduction Method for OFDM Signal Transmission System", International Journal of Inventions In Computer Science And Engineering, vol. 2, no. 4, pp. 128-134, 2015, ISSN. 2348- 3539.
16. Ranjith P, Kumar P, "Hybrid Peak to Average Power Reduction Method for ofdm Signal Transmission System", International Journal of Applied Engineering Research, vol. 10, no. 9, pp. 6964-6968, 2015, ISSN. 0973-4562.
17. Ranjith P, Kumar P, "Modified Peak to Average Power Reduction Method for ofdm Signal Transmission System", Proceedings of International Conference on ICIRMEE 2015, pp. 51-69, 2015, ISSN. 2348-3431.

18. Ranjith P, Kumar P, “Hybrid Peak to Average Power Reduction Method for ofdm Signal Transmission System”, Proceedings of International Conference on Engineering Technology and Science, pp. 512-516, 2015.
19. Anupriya A, Kumar P, “A Closed-Loop Rate Adaptive Scheme for Ieee 802.11 Multi-Rate Wireless Networks”, Proceedings of International Conference on Innovation, Information in Computing Technologies, pp. 120-124, 2015.
20. Deepa S, Kumar P, “Intelligent user interactive model for real time text-graphic generation”, Journal of Theoretical and Applied Information Technology, vol. 64, no. 3, pp. 681-686, 2014, ISSN 1992-8645(P), 1817-3195(O).
21. Deepa S, Kumar P, “User Interactive Hierarchical Text to Graphics Generation Using Fuzzy Rule Sets and Particle Swarm Optimization Techniques”, International Journal of Applied Engineering Research, vol. 9, no. 22, pp. 15937-15948, 2014, ISSN 1087-1090.
22. Gobinath T, Kalaiyarasi T, Kumar P, “Features monitoring system to defend wormhole attacks in wireless sensor networks”, IEEE Proceedings of the International Conference on Emerging Trends in Science Engineering and Technology: Recent Advancements on Science and Engineering Innovation, INCOSSET 2014, pp. 52-56, 2014, ISBN 978-1-4673-5141-6.
23. Prabha M, Kumar P, “DS CDMA multiuser receiver employing multiple access interference cancellation using iterative demodulator architecture”, Proceeding of the IEEE International Conference on Green Computing, Communication and Electrical Engineering, ICGCCEE 2014, pp. 119-124, 2014, DOI 10.1109/ICGCCEE.2014.6922251.
24. Kumar P, Udayakumar M, “Area Efficient Digital Comparator Design Using Pseudo nMOS and Pass Transistor Logic”, Proceedings of IEEE International Conference on Innovations in Engineering and Technology, pp. 785-790, 2014, ISSN 2319 - 8753.
25. Vijayakumar S, Sundararajan J, Kumar P, Nithya K, “Delay and power reduction in new routing fabrics”, American Journal of Applied Sciences, vol. 10, no. 12, pp. 1537-1545, 2013, ISSN 1546-9239.
26. Nagabushanam M, Ramachandran S, Kumar P, “FPGA Implementation of 1D and 2D DWT architecture using modified lifting scheme”, WSEAS Transactions on Signal Processing, vol. 9, no. 4, pp. 227-236, 2013, ISSN 1790-5052.

27. Swaminathan J N, Kumar P, Vinoth M, "Performance analysis of LMS filter in linearization of different memoryless non linear power amplifier models", Communications in Computer and Information Science, vol. 361, no. 3, pp. 459-464, 2013, ISSN 1865-0929.
28. Vinothkumar B, Kumar P, "A novel preprocessing method and PCLDA algorithm for face recognition under difficult lighting conditions", 2013 International Conference on Emerging Trends in VLSI, Embedded System, Nano Electronics and Telecommunication System, ICEVENT 2013, pp. 45-51, 2013, ISBN 9781467353014.
29. Swaminathan J N, Kumar P, "Design and linearization of solid state power amplifier using Pre-distortion Technique", 2013 International Conference on Computer Communication and Informatics, ICCCI 2013, pp. 139-147, 2013, ISBN 9781467329064.
30. Priya S B M, Kumar P, "Investigation on interference mitigation in multicell MU-MIMO", Proceedings of the 2013 International Conference on Green Computing, Communication and Conservation of Energy, ICGCE 2013, pp. 244-249, 2013, ISBN 9781467361248.
31. Nagabushanam M, Ramachandran S, Kumar P, "FPGA Implementation of 1D and 2D DWT architecture using modified lifting scheme", WSEAS Transactions on Signal Processing, vol. 9, no. 4, pp. 227-236, 2013, ISSN/ISBN. 2224-3488.
32. Kumar P, Chandra K, "Optimization of RSA Processors using Multiplier", International Journal of Computer Trends and Technology, vol. 4, no. 5, pp. 1089-1094, 2013, ISSN. 2231-2803.
33. Swaminathan J N, Kumar P, Vinoth M, "Performance analysis of LMS filter in linearization of different memoryless non linear power amplifier models", Journal of Advances in Computing, Communication, and Control, vol. 361, no. 1, pp. 25-45, 2013, ISSN. 1841-9836.
34. Vinothkumar B, Kumar P, "A novel preprocessing method and PCLDA algorithm for face recognition under difficult lighting conditions", International Conference on Emerging Trends in VLSI, Embedded System, Nano Electronics and Telecommunication System, vol. 1, no. 1, pp. 65-74, 2013, ISBN. 978-1-4673-5300-7.
35. Swaminathan J N, Kumar P, "Design and linearization of solid state power amplifier using Pre-distortion Technique", 2013 International Conference on Computer Communication and Informatics, ICCCI 2013, pp. 42010, 2013, ISBN. 978-1-4673-2906-4.

36. Kumar, P. and Krishnan, A. "Throughput analysis of the IEEE 802.11 distributed coordination function considering erroneous channel and capture effects", *International Journal of Automation and Computing*, Springer, Vol. 8, No. 2, pp. 236-243, 2011.
37. Kumar, P. and Krishnan, A. "Saturation throughput analysis of IEEE 802.11 b wireless local area networks under high interference considering capture effects", *International Journal of Computer Science and Information Security*, Vol. 7, No. 1, pp. 32-39, 2010.
38. Kumar, P. and Denny Varghese. "Self-Reconfigurable wireless mesh networks", *CiiT International Journal of Wireless Communication*, Vol. 4, No. 2, pp. 60-65, 2012.
39. Boopathy, T. and Kumar, P. "A novel energy recovery and clock gating scheme for low power clock network", *CiiT International Journal of Programmable device circuits and systems*, DOI: PDCS042011006, 2011.
40. Chandra, K. and Kumar, P. "Optimization of RSA Processors using Multiplier", *International Journal of Computer Trends and Technology*, Vol. 4, No. 5, pp. 1089-1094, 2013.
41. Swaminathan, J. N, Kumar, P. and Vinoth, M. "Performance Analysis of LMS Filter for SSPA Linearization in Different Modulation Conditions", in *Proc. International conference on Emerging trends in Electrical, Communication and information technologies (ICECIT'12)*, Published by Elsevier, pp. 49-52, 2012.
42. Kumar, P. and Denny Varghese. "Analysis of self reconfigurable wireless mesh networks", in *Proc. International Conference on Information, communication and Embedded Systems*, pp. 119-126, 2012.
43. Kumar, P. and Sathya Vignesh, R. "VLSI implementation of Barrel distortion correction in wide-angle camera images based on least squares estimation", in *Proc. International Conference on Recent trends in computational methods, communication and controls*, pp. 1-7, 2012.
44. Kumar, P. and Poongodi, K. "Throughput Analysis of IEEE 802.11", in *Proc. International Conference on Computational intelligence and its applications*, pp. 123-128, 2012.
45. Kumar, P. and Denny Varghese. "Analysis of auto reconfigurable wireless mesh networks", in *Proc. IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT'12)*, 2012.

46. Kumar, P. and Madhan kumar, K. "Characterization of skin lesions", in Proc. IEEE International Conference on Pattern Recognition, Informatics and Medical Engineering, pp. 302-306, 2012.
47. Kumar, P. and Madhan kumar, K. "Classification of skin lesions", in Proc. International Conference on Information, communication and Embedded Systems, pp. 359-364, 2012.
48. Kumar, P. and Krishnan, A. "Throughput Analysis of the IEEE 802.11 Distributed Coordination Function Considering Capture Effects", in Proc. IEEE International Conference on Emerging trends in Engineering and Technology, pp. 836-841, 2010.
49. Kumar, P., A. Krishnan, K. Poongodi, and TD Senthil Kumar. "Performance analysis of the IEEE 802.11 distributed coordination function in high interference wireless local area networks considering capture effects", in Proc. IEEE International Conference on Advance Computing Conference, pp. 911-916, 2009.
50. Kumar, P., Senthilkumar, T. D. and Krishnan, A. "Nonsaturation throughput analysis IEEE 802.11 distributed coordination function", in Proc. IEEE International Conference on Control, Communication and Automation, IIT Kanpur, Kanpur, India, Vol. 1, pp. 154-158, 2008.
51. Kumar, P., Senthilkumar, T. D. and Krishnan, A. "New approach for throughput analysis of IEEE 802.11 in ad hoc networks", in Proc. IEEE International Conference on Control, Communication and Automation, IIT Kanpur, Kanpur, India, Vol. 1, pp. 148-153, 2008.
52. Boopathy, T. and Kumar, P. "A novel energy recovery and clock gating scheme for low power clock network", in Proc. National conference on Cutting edge technologies in power conversion and industrial drives (PCID'11), pp. 6-10, 2011.
53. Usha, N. and Kumar, P. "Designing a low power delay buffer using Gals algorithm", in Proc. National conference on System design and information processing, 2011.
54. Balaji, V. and Kumar, P. "Improving the transition fault coverage of functional broadside tests by observation point insertion", in Proc. National conference on Electrical and Instrumentation Systems (NCEIS'10), 2010.
55. Kahajavali, B. and Kumar, P. "Low power configuration technique for multiplication acceleration through Twin precision" in Proc. National conference on Emerging trends in communication and information technology (CTCIT'10), 2010.

56. Prabhukumar, S. and Kumar, P. “Iterative channel estimation and multiuser detection in multipath DS-CSMA channels”, in Proc. National conference on Recent advances in Communication (NCRAC’08), 2008.
57. Nithya, K. and Kumar, P. “Test power reduction using first level supply gating”, in Proc. Second National conference in Recent trends in electrical, electronics, Instrumentation and communication engineering, pp. 30-35, 2007.
58. Saraswathi, S. and Kumar, P. “Development of fast Ethernet switch”, in Proc. National conference on Emerging trends in networks and high performance communication systems, 2006.
59. Kumar, P. and Senthilkumar, T. D. “Channel coding using convolutional codes”, in Proc. National conference on Modern aspects in wireless communication (MASWIC’04), 2004.

List of Workshops / Seminar / STTP/FDPs Organized

Sl. No.	Title	Venue	Duration	Sponsoring Authority
1	National Conference on “Emerging Trends in Communication and Information Technology (ETCIT-19)”	K.S.Rangasamy College of Technology	26.02.2019	KSRCT Management
2	National Conference on “Emerging Trends in Communication and Information Technology (ETCIT-18)”	K.S.Rangasamy College of Technology	27.03.2016	KSRCT Management
3	Two Days National Seminar on “Clinical Application of Emerging Sensor Technologies in Diabetes Management”	K.S.Rangasamy College of Technology	04.10.2017 & 05.10.2017	ICMR
4	National Conference on “Emerging Trends in Bioelectronics, Information and Communication Technologies”	K.S.Rangasamy College of Technology	12.04.2017	ICMR

5	National Seminar on “Smart Health Care Monitoring System using IoT”	K.S.Rangasamy College of Technology	22.09.2016 & 23.09.2016	ICMR
6	National Conference on “Emerging Trends in Communication and Information Technology (ETCIT-16)”	K.S.Rangasamy College of Technology	01 day- 22.04.2016	KSRCT Management

Details of Membership In Professional Societies

S. No.	Name of Professional Body	Grade of Membership	Membership No.
1	ISTE	Life Member	LM 42834
2	IETE	Life Member	M-208179

(P.KUMAR)