

# K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE – 637 215.

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING FACULTY PROFILE

01. Name : Dr.S.Karthikeyan

02. Designation : Professor

03. Date of Birth : 20.05.1968

04. Date of Joining : 11.08.2004



05. Qualification & Designation :

	At the time of Joining	At Present
Qualification	M.Tech	Ph.D
Designation	Assistant Professor	Professor

06. Specialization : Image Processing

07. Experience & Promotion Details (Chronological):

SL.NO.	Name of the Organization	Designation	Period	
			From	To
01	K.S.R.College of Engineering	Professor	2.11.2015	Till date
02.	K.S.R.College of Engineering	Associate Professor	01.08.2008	31.10.2015
03.	K.S.R.College of Engineering	Assistant Professor	30.06.2005	31.07.2008
04.	K.S.R.College of Engineering	Lecturer	11.08.2004	29.06.2005
05.	K.S.R.Institute of Technology	Senior Lecturer & HoD	16.04.2001	03.09.2001
		Lecturer	02.07.1990	15.04.2001

08. Publication Details:-

National Level*		International Level*		Google scholar*		
Journal(s)	Conference(s)	Journal(s)	Conference(s)	citations	h-index	i10 index
-	04	09	04	117	5	4

\*Annexure

09. Details of Proposal

Sl.NO	Title of the Proposal	Funding Agency Details	Date & Duration	Status
1	FDP on Communication Theory	Anna University	28.11.12 to 05.12.12	Sanctioned
2	Analysis of non-invasive images using wavelets	ICMR, New Delhi	---	Not recommended
3	MODROB	AICTE	-	-
4	National seminar	INSA	-	-

**10. Details of Winter/Summer Schools Attended**

Sl.NO	Name of the programme	Organized by	Duration
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**11. Details of Workshops/ Seminars (Attended/Handled)**

S.no	Name of Programme	Name of the organizer	Duration
1.	Workshop on Emerging Trends in Wireless Communication	Dr,Mahalingam College of Engg and Tech, Pollachi	29 <sup>th</sup> Jan,2005
2.	Workshop on Wimax,3G-Applications in Wireless Technologies	National Institute of Technology, Trichy	2 <sup>nd</sup> November 2007
3.	National level Workshop on Digital Signal Processing, Pattern Recognition and Applications	National Engg College, Kovilpatti	10 <sup>th</sup> -11 <sup>th</sup> jan 2008
4.	FDP on Semiconductor Devices and Analog Circuits	IIT, Madras	26 <sup>th</sup> -27 <sup>th</sup> April 2008
5.	Workshop of Anna University-Coimbatore on Audit Policy and Conduct of Internal and External Audit	Vivekanandha Institute of Engg and Tech for Women	16 <sup>th</sup> July 2008
6.	National level Workshop on Medical Image Analysis	R.V.S College of Engineering and Tech, Dindigul	14 <sup>th</sup> November 2008
7.	Workshop on Virtual Private Network	KSR College of Engineering	3 <sup>rd</sup> Jan 2009
8.	National seminar on Smart Medical Diagnosis Systems using Image Fusion Technology	K.S.Rangasamy College of Technology	19-20 <sup>th</sup> Feb 2010
9.	AICTE –National Seminar on Current Trends in Signal/Image Processing	Saranathan College of Engineering,Trichy	17 <sup>th</sup> -18 <sup>th</sup> June 2010
10.	Workshop on Research Methods and Innovations	SRS College of Engineering and Tech, Salem	6 <sup>th</sup> August 2011
11.	Workshop on Digital Image Processing using Scilab	IRTT,Erode	17 <sup>th</sup> September 2011
12.	National level seminar on Research Methodology and Techniques in Soft Computing	K.S.R College of Engineering	28 <sup>th</sup> September 2011
13.	ISTE workshop on Writing Effective Conference Papers	IRTT,Erode	18 <sup>th</sup> -19 <sup>th</sup> Feb 2012
14.	National Workshop on Research Issues in Medical Image Processing	Kongu Engineering College, Perundurai	6 <sup>th</sup> -7 <sup>th</sup> July 2012
15.	Panel discussion on Autonomy as a Cool for Quality Enhancement	Government College of Technology, Coimbatore.	26 <sup>th</sup> July,2012
16.	Workshop on Image Classification and Retrieval	VIT University, Vellore	27 <sup>th</sup> -28 <sup>th</sup> July 2012
17.	Anna university-Faculty development training programme – Delivered a lecture on “Modulation Methods”	KSR College of Engineering	28 <sup>th</sup> November 2012

18.	AICTE-SDP on Recent Advances in Pattern Recognition-Artificial Intelligence Models and Analysis in Biometrics	K.S.Rangasamy College of Tech	25 <sup>th</sup> -26 <sup>th</sup> April 2013
19.	Workshop on Wavelet Transform and Its Applications	Dr,Mahalingam College of Engg and Tech, Pollachi	25 <sup>th</sup> August 2012
20.	National level workshop on Familiarizing Basics of MATLAB and its Toolboxes	Dr.Nallini Institute of Engineering and Technology, Palani	30 <sup>th</sup> August 2013
21.	Workshop on the Aspects of Soft Computing Techniques	K.S.R College of Engineering	28 <sup>th</sup> April 2014
22.	Workshop on System Design using Tanner Tool	Karpagam College of Engineering, Coimbatore	20 <sup>th</sup> Feb,2015
23.	National level workshop on Bloom Taxonomy and its Assessment	KSR College of Engineering	20 <sup>th</sup> March 2015
24.	FDP on Advanced Digital Image Processing	Anna University Regional Center, Coimbatore	17 <sup>th</sup> -18 <sup>th</sup> April 2015
25.	FDP on Embedded systems with ARM-7 microcontroller	Nandha Engineering College,Erode	27 <sup>th</sup> -28 <sup>th</sup> May 2015
26.	Short term course on Image Analysis and Computer Vision	Coimbatore Institute of Technology,Coimbatore	23 <sup>rd</sup> -29 <sup>th</sup> November 2015
27.	Safety analysis of nuclear power plant using Computational and fuzzy techniques	K.S.R College of Engineering	3 <sup>rd</sup> & 4 <sup>th</sup> May 2016
28.	ISTE sponsored workshop on network simulator-2	K.S.R College of Engineering	2/2/17 to 4/2/17
29.	SERB sponsored national seminar on young electronic engineers to be an entrepreneur	Nandha Engineering College,Erode	18/1/18 to 19/1/18
30.	CSIR sponsored awareness programme on E waste handling and recycling techniques	Nandha Engineering College,Erode	06/09/18
31.	ISRO sponsored national seminar on Recent development in smart farming based on IOT and robotics	Nandha Engineering College,Erode	5/4/19
32.	STTP through ICT mode on NBA accreditation	NITTTR,Kolkata (Host by KSR College of Engineering)	22/4/19 to 26/4/19

#### **Details of Winter/Summer Schools handled**

Sl.No	Name of the organizer	Topic handled	Date
1.	CMS College of Engineering, Namakkal	Digital Image Processing	10.3.10
2	Angel College of Engineering and Technolohy Tirupur	Digital Image Processing	20.10.11

#### **12. Details of Winter/Summer Schools/Workshops/Seminars organized:**

Sl.No	Name of the programme	Sponsored by	Acted as	Duration	Convenor
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1.	FDP on Communication Theory	Anna University	Coordinator	28.11.12 to 5.12.12	Prof.S.Karthikeyan
2	Symposium Bloom2k8	K.S.R College of Engineering	Co- Coordinator	8.9.08	HoD
	Bloom2k9			28.1.09	
	Bloom2k10			6.2.10	
3.	National Conference			17.3.10	
4.	International Conference [ICAEECT'16]		Coordinator	22.2.16	

### 13. Details of the Subjects Handled (in KSRCE):

Sl.No	Academic Year	Semesters	Name of the Subjects	Class	% of Pass
1	2019-2020	ODD	12EC3641 Digital Image Processing	IV B	
			Project Work	II ME CS	
2	2018-2019	EVEN	16EC411 Analog communication system	IIA	59.09
			CU18212Modern digital communication system	I ME-CS	100
		ODD	Electronic Devices and Circuits	II A	86.76
			Electronic Devices and Circuits	II B	81.8
3	2017-2018	EVEN	16EC411 Analog communication system	IIA	81.25
			12EC3641Digital Image Processing	III A	80.95
		ODD	12EC3501 Analog communication system	IIIC	91.4
			16EC361 Electronic Devices and Circuits	II B	98
4	2016-2017	EVEN	Electronic Circuits	II A	85.7
			Digital Image Processing	III B	93.8
		ODD	12EC3641Electronic Devices and Circuits	II ECE A	77.4
			Antenna Radiation System	I ME CS	100
5	2015-2016	EVEN	12EC 3641 Digital Image Processing	III ECE C	98
			CU124208 Soft Computing Techniques	I ME CS	100
		ODD	12EC3641Electronic Devices and Circuits	II ECE B	85

			Computer Networks	III ECE A	100
6	2014-2015	ODD	Electronic Devices and Circuits	II ECE B	96.49
			Satellite Communication	I ME CS	100
		EVEN	12EC 3641 Digital Image Processing	III ECE A	92.3
7	2013-2014	ODD	Electronic Devices and Circuits	II ECE A	89.39
			Satellite Communication	I ME CS	100
		EVEN	Satellite Communication	IV ECE A	100
			Soft Computing Techniques	I ME AE	94.44
8	2012-2013	ODD	Electronic Circuits - I	II ECE B	55.85
			Satellite Communication	I [ME/CS]	100
		EVEN	Digital Image Processing	III ECE B	75
			Soft Computing Techniques	I [ME/CS, EST]	100
9	2011-2012	ODD	EC2205 Electronic Circuits - I	II ECE B	98.57
			Digital Image Processing	I ME CS	66.66
10	2011-2012	EVEN	Digital Image Processing	III ECE B	92.6
			Satellite Communication	I ME CS	100
11	2010-2011	ODD	EC2205 Electronic Circuits - I	II ECE A & B	A:93.85 B:95.38
		EVEN	Medical electronics	III ECE A	91.54
			Digital Image Processing	III ECE B	98.59
12	2009-2010	ODD	080290011 Electronic Circuits - I	II ECE A	90.27
			EC-1009 Digital Image Processing	III ECE B	90.62
		EVEN	07EC605 Digital Image Processing	III ECE	90.32
			EC-1451 Mobile Communication	IV ECE B	98.4
13	2008-2009	ODD	070290010 Electronic Circuits - I	II ECE	A:94.57 B:95.38
		EVEN	EC-1451 Mobile Communication	IV ECE B	100

14	2007-2008	ODD	EC1203 Electronic Circuits - I	II /ECE	A:90.77 B:83.33
		EVEN	EC-1451 Mobile Communication	IV ECE B	97.5
15	2006 - 2007	ODD	EC1203 Electronic Circuits - I	II ECE	A:84.62 B:82.09
		EVEN	EC048 Satellite Communication	IV /ECE	100
16	2005-2006	ODD	EC351 Analog, Digital, Data Communication	III /CSE	82.14
			EC335 Transmission lines and wave guides	III /ECE	84.7
		EVEN	EC1291 Analog, Digital Communication	III /CSE	75.8
			CS1304 Microprocessor and Microcontroller	III /IT	96.9
17	2004- 2005	ODD	EC335 Transmission lines and wave guides	III /ECE	91.53
		EVEN	IF 252 Telecommunication system	IV /IT	95.4

#### 14. Additional Responsibilities:-

SL.NO	Details of Work	Work allotted by	Duration
1	NBA coordinator	Head of the Department	2018 to till date
2	IETE coordinator	Principal	2012 to 2015
3	Department ISO coordinator	Head of the Department	2011 to till date
4	Academic coordinator	Principal	2008 to 2015
5	Alumni coordinator	Principal	2005 to 2009
6	ECE association coordinator	Head of the Department	2006 to 2011

#### 15. Consultancy Activity

Duration in years	Organization	Project Title	Total Amount Received
2015-16	Caliber Embedded Technologies India (P) Ltd. Coimbatore	Security system for home	Rs1,06,000

#### 16. Self-Appraisal

- 3 Major Strengths:
1. Team Player
  2. Easily adoptable to situations
  3. Hard worker

3 Major Weaknesses:

1. . Much Expectation from the students
2. Strictness.

signature

## Annexure

### Faculty Name: S. KARTHIKEYAN JOURNALS

S.no	Name of the Author	Title of the paper	Name of the publisher	Year of publications
1.	Karthikeyan, S &Rengarajan, N	A thorough investigation on automated diagnosis of glaucoma	International Journal of Advanced Research in Computer Science, vol. 3, no. 4, pp. 294-302.	2012
2.	Karthikeyan, S &Rengarajan, N	Analysis of gray levels for retinal image classification	Australian Journal of Basic and Applied Sciences, vol. 7, no. 13, pp.	2013
3.	Karthikeyan, S &Rengarajan, N	Performance analysis of gray level co-occurrence texture features for glaucoma diagnosis	American Journal of Applied Sciences, vol. 11, no. 2, pp.248-257.	2013
4.	Karthikeyan, S &Rengarajan, N	Hybrid feature analysis for assessment of glaucoma using RNFL	International Review on Computers and Software, vol. 9, no. 1, pp. 227-240.	Scop Sci 2014
5.	Karthikeyan, S	Clustering based optic disc and optic cup segmentation for glaucoma detection	International journal of innovative research in computer and communication engineering, vol 3, no. 4.	2014
6.	Karthikeyan, S &Rengarajan, N	An automated detection of glaucoma using histogram features	International Journal of Ophthalmology, vol.8, no.1, pp.194-200. <b>[Impact factor : 0.12]</b>	Scop Sci 2015
7.	Karthikeyan, S &Rengarajan, N	ANFIS based glaucoma detection using texture and fractal features	Journal of Imaging Science and Technology, vol. 58, no.6. pp.060402-1 – 060402-10 <b>[Impact factor : 0.12]</b>	Scop Sci 2015
8.	Karthikeyan, S R. K. Negesh	Multi Input modified DC-DC Sepic Converter based Grid Connected System Using Fuzzy MPPT Algorithm	International Journal of Modern Trends in Engineering and Research (IJMTER) Vol06, Issue 01	January– 2019
9.	Dr.S.Karthikeyan Dr.N.Rengarajan & Dr.S.Kavitha	A Survey on Dynamic Source Routing In Mobile Ad Hoc Network	Asian Journal of Applied Science and Technology Vol3, Issue 2, Pages 122-131	June 2019

### CONFERENCES

S.no	Name of the staff	Title of the paper	Name of the organizer	Date
1.	Karthikeyan, S	Signature verification using neural networks	International Conference on future technologies in engineering and humanities, Sri guru institute of technology, Coimbatore	22.2.2019
2.	Karthikeyan, S	Estimation of nutritional contents in food images using neural networks	ICACCASE Al-Ameen Engineering College, Erode	10-11 April 2015
3.	Karthikeyan, S &Rengarajan, N	Assessment of glaucoma based on optic disc and cup segmentation by	International Conference on Trends in Technology for	8 <sup>th</sup> -9 <sup>th</sup> April 2014

		super pixel classification	Convergence, AVS Engineering College, Salem	
4.	S.Karthikeyan	Glaucoma detection based on wavelet transform using fundus images	National conference on Computing Communication Technology and Science,Muthayammal College of Engineering, Rasipuram	5-6 <sup>th</sup> April 2013
5.	S.Karthikeyan	Automatic detection of diabetic retinopathy on the optic disc using feature parameters	National conference on Advances in Computing, Control, Communication, Automation and Structural Engineering. Al-Ameen Engineering College, Erode	10 <sup>th</sup> March 2012
6.	S.Karthikeyan	Identification of diabetic retinopathy by detecting new retinal vessel using fundus image	International Conference on Advanced Computing Technologies, JKKN College of Engg and Tech, Komarapalayam.	9 <sup>th</sup> March 2012
7.	S.Karthikeyan	Image segmentation in different color spaces by fusion of histogram based K-means	National Conference on Advanced Communication and Computing, Paavai College of Engineering,Namakkal	2 <sup>nd</sup> April 2009.
8.	S.Karthikeyan	Real time DSP implementation of NLMS algorithm for adaptively cancelling server fan noise	National Conference on Emerging Intelligent Information Technologies,Karpagam College of Engineering, Coimbatore	12 <sup>th</sup> -13 <sup>th</sup> August 2005



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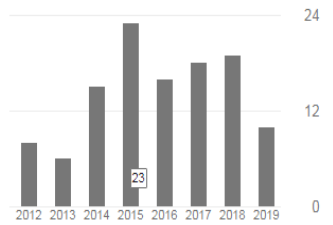
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Professor / ECE, K.S.R.College of Engineering  
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<input type="checkbox"/>	<a href="#">Early detection of glaucoma in retinal images using cup to disc ratio</a>			58	2010
	S Kavitha, S Karthikeyan, K Duraiswamy 2010 Second International conference on Computing, Communication and ...				
<input type="checkbox"/>	<a href="#">Neuroretinal rim quantification in fundus images to detect glaucoma</a>			21	2010
	S Kavitha, S Karthikeyan, K Duraiswamy IJCSNS International Journal of Computer Science and Network Security 10 (6 ...				
<input type="checkbox"/>	<a href="#">Performance analysis of gray level cooccurrence matrix texture features for glaucoma diagnosis</a>			15	2014