

## BIO - DATA

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- 1. Name** : Dr Satish Rapaka  
**2. Designation** : Associate Professor  
**3. Department** : Electronics and Communication Engineering  
**4. Date of Joining** : 06-06-2005  
**5. Nature of Employment** : Regular  
**6. Date of Birth** : 25<sup>TH</sup> Febraury 1980  
**7. Unique ID** : 1-433735733  
**8. e-mail** : [rsatishus@gmail.com](mailto:rsatishus@gmail.com)  
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**10. Address for Communication :**



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Road No 1  
Satrampadu  
Eluru  
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Andhra Pradesh - 534007

**11. Educational Qualifications :**

Qualification	Institute	University /Board	Specialization	Year of Passing	Division /Class
Ph. D	Andhra University	Andhra University	Digital Image Processing	2019	Awarded
M. E	Andhra University	Andhra University	Electronic Instrumentation	2005	I
B. E	GITAM College of Engineering	Andhra University	ECE	2002	I

**12. Work Experience :**

Teaching: 16 Yrs                      Research: 5 Yrs

Name of the organization	Designation	From	To
SIR. C. R. Reddy College Of Engineering	Assistant Professor	June, 2005	Aug, 2019
SIR. C. R. Reddy College Of Engineering	Associate Professor	Sep, 2019	Till date

**13. Courses Taught**

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S. No	Name of the Subject	UG/PG
1	Pulse and Digital Circuits	UG
2	Data Communications	UG
3	Electronic Devices & Circuits	UG
4	Analog Electronic Circuits	UG
5	Electromagnetic Field Theory & Transmission Lines	UG
6	Antennas & Wave Propagation	UG
7	Wireless Communication Networks	PG
8	Communication Theory	PG

**14. Administrative responsibilities**

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S. No	Description	College / Department Level
1	In-Charge Computer center	Department
2	Time - tables	Both Department & College level
3	Module coordinator	Department
4	NBA Criterion-2 coordinator	Department
5	In-charge workshops/seminars/STTP/etc.	Department
6	IEEE Student Branch Staff Coordinator	Department

**15. Research guidance**

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M. Tech		Ph.D	
Completed	Ongoing	Completed	Ongoing
4	-	-	-

**16. Research Publications in Journals**

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1. **Rapaka Satish., Rajesh Kumar, P., Katta, M. et al.** "A new segmentation method for non-ideal iris images using morphological reconstruction FCM based on improved DSA". *SN Appl. Sci.* 3, 53 (2021). <https://doi.org/10.1007/s42452-020-04110-1> (**WoS, ESCI**)
2. **R. Satish, miranji katta,ramkumar adireddi** and jagadeeshwara rao emandi,a preliminary review on novel coronavirus disease: Covid-19,review paper,2020 bentham science publishers,accepted: May 20, 2020,doi: 10.2174/2666796701999200615155630 coronaviruses, 2020, vol. 1, no. 1,2666-7967/20.

3. **Satish Rapaka**, P. Rajesh Kumar, "An efficient method for segmentation of noisy and non-circular iris images using improved PSO based morphological reconstructed FCM," *IET Biometrics*, Vol.9, no.2, 2020, pp. 78-90, DOI: 10.1049/iet-bmt.2019.0026, (**Indexed in both SCI & SCOPUS**), (**IP: 2.092**)
4. **Satish Rapaka**, P. Rajesh Kumar, "Efficient approach for non-ideal iris segmentation using improved particle swarm optimisation-based multilevel thresholding and geodesic active contours," *IET Image Processing*, Vol.12, no.10, 2018, pp. 1721-1729, DOI: 10.1049/iet-ipr.2016.0917, (**Indexed in both SCI & SCOPUS**), (**IP: 2.004**)
5. **Satish Rapaka**, P. Rajesh Kumar, M. Rajasekhar, and Y. B. N. V. Bhaskar, "An efficient method for segmentation of noisy and non-circular iris images using optimal multilevel thresholding," *J. Adv. Res. Dyn. Control Sys.*, (**SCOPUS**), vol. 11, no. 2 Special Issue, pp. 1010-1022, 2019.
6. **Satish Rapaka**, Rajesh Kumar Pullakura, "Towards segmentation of non-ideal iris images using optimization based multilevel thresholding," *Proc. 3rd Int. Conf. Commun. Electron. Syst. ICCES 2018, IEEEExplore (SCOPUS)*, pp. 46-51, 2018, DOI: 10.1109/CESYS.2018.8723939
7. **R. Satish**, P. R. Kumar, "State-of-the art iris segmentation methods A Survey," *Int. J. Comput. Sci. Eng. (UGC Approved)*, vol. 6, no. 11, pp. 739-748, 2018. DOI: <https://doi.org/10.26438/ijcse/v6i11.739748>.
8. **R. Satish**, P. R. Kumar, and M. Jeevan, "A new approach for non-ideal iris segmentation using FCM clustering based on PSO," *AJEAT (UGC Approved)*, vol. 07, no. 2, pp. 42-45, 2018.
9. A. P. Kumar., **R. Satish**, "A Novel Decomposition Framework For Gray Scale Image Denoising Algorithms," *IJR (UGC Approved)*, vol. 04, no. 14, pp. 149-153, 2017.
10. **R. Satish**, P. Inteti, "IRIS Recognition System Using Geodesic Active Contours for Non-Ideal IRIS Images," *IJERECE*, vol. 2, no. 6, pp. 81-87, 2015.
11. K. N. S. Kumar, **R. Satish**, and D. M. S. Ganga Prasad, "Estimation of Direction of Arrival Algorithms for Adaptive Array Smart Antenna in Wireless Communication," *Int. J. Eng. Trends Technol.*, vol. 14, no. 5, pp. 245-248, 2014.
12. **R. Satish**, D. P. Kumar, "Advanced Ad-Hoc Wireless Communication System Based on Cooperative MIMO Approach," *IJECT*, vol. 7109, pp. 86-89, 2014.
13. S. Sunitha., **Rapaka Satish**, "A new image forgery detection framework based on undecimated dyadic wavelet transform technique," *IJPRES*, vol. III, no. 1, pp. 156-160, 2014.
14. K. R. Chandram., **R. Satish**, "Adaptive Smart Antenna System for Performance Improvement of Wireless Push Systems," *IJSETR*, vol. 02, no. 14, pp. 1598-1603, 2013.

## 17. Research Publications in Conference :

1. **Satish Rapaka**, V.Anil Kumar, S.Sravani, et.al, Automatic Attendance System Using

Facenet, 2nd NATIONAL CONFERENCE ON "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING" 16th - 17th JULY 2021.

2. **R Satish**, B.Niharika, B.Manju,et.al , Social Distance Detection Using Deep Learning, 2nd NATIONAL CONFERENCE ON "RTIFICIAL INTELLIGENCE & MACHINE LEARNING" 16th - 17th JULY 2021.
3. **Satish Rapaka** and A. N. Sivadeep, "Face recognition using CRF model," *Proc. 1<sup>st</sup> Int. Conf. Adv. Commun. Techn. ICACT 2019*, pp. 192-194, 2019.
4. **Satish Rapaka** and Rajesh Kumar Pullakura, "Towards segmentation of non-ideal iris images using optimization based multilevel thresholding," *IEEE Proc. 3rd Int. Conf. Commun. Electron. Syst. ICCES 2018*, pp. 46-51, 2018, DOI: 10.1109/CESYS.2018.8723939
5. **Satish Rapaka** and D. Pallavkumar, "Advanced Ad-hoc wireless communication system based on co-operative MIMO approach," *Proc. NCRRECE 2014*, pp. 86-89, 2014.
6. **Satish Rapaka** and D. Pallavkumar, "Smart cards & biometrics in privacy sensitive secure personal identification system," *Proc. ICECE 2012*, pp. 80-84, 2012.

#### 18. Details of Book Publications :

S. No	Authors	Title	Publisher	ISBN	Year of Publication
1	1. Dr R. Satish 2. Dr T Venkateswara Rao	Proceedings of International Conference on Advanced Communication Technologies-2019 (ICACT-2019)	JAZYM Publications	978-93-87360-32-7	2019

#### 19. Workshops/STTPs/FDPs Organized :

S No	Name of the Event	Event Type	Role	Place	Dates
1	Bio-medical Signal Processing and Applications	FDP	Co-coordinator	Sir CRR College of Engg,Eluru	1 <sup>st</sup> to 14 <sup>th</sup> Nov 2019
2	Advanced Communication Technologies	International Conference	Proceedings Editor	Sir CRR College of Engg,Eluru	26 <sup>th</sup> & 27 <sup>th</sup> April 2019
3	Signal & Image Processing Applications using MATLAB	Workshop	Coordinator	Sir CRR College of Engg,Eluru	27 <sup>th</sup> to 28 <sup>th</sup> Dec 2017
4	MATLAB For Engineering Applications	Workshop	Coordinator	Sir CRR College of Engg,Eluru	19 to 20 <sup>th</sup> Aug 2016
5	Project Orientation Course on Digital Image	Workshop	Coordinator	Sir CRR College of Engg,Eluru	21 to 29 <sup>th</sup> July 2016

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**20. Workshops/STTPs/FDPs ATTENDED :**

S No	Name of the workshop/ STTP	Type of event	Place	Period	
				From	To
1	Programming for Everybody - Python	Non-credit course	Coursera	8 weeks	
2	Introduction to data science	FDP	Guntur Engg. College	18 - 05- 2020	22 - 05- 2020
3	Reconfigurable antenna	Webinar	Narsaraopet Engg. College	26-05-2020	--
4	Introduction to programming with MATLAB	Non-credit course	Coursera	8 weeks	
5	IoT - Industrial perspective	Webinar	BVICAM, New Delhi	11/7/2020	--
6	Bio-Medical Signal Processing & Applications	FDP	Sir C R Reddy College of Engineering, ECE Dept.	1/11/2019	14/11/2019
7	Signal Processing & Image Processing Applications using MATLAB	Workshop	Sir C R Reddy College of Engineering, ECE Dept.	27-12-2017	28-12-2017
8	MATLAB For Engineering Applications	Workshop	Sir C R Reddy College of Engineering, ECE Dept.	19-08-2016	20-08-2016
9	MATLAB & Simulink for Engineering Applications	Workshop	Mathworks India	5-02-2016	-
10	Advances in Signal Processing	Workshop	Andhra university	30-08-2013	31-08-2013
11	Vision 2020 for Communications	Workshop	K L University	1-03-2007	2-03-2007
12	Instructional Design and Delivery	FDP	Ministry of HRD, Chennai	12-6-2006	17-6-2006
13	Electromagnetics	Conference	ANITS, Visakhapatnam	12-10-2007	13-10-2007
14	FPGA Based System Design	Workshop	Sir C R Reddy College of Engg., ECE Dept.	28-09-2007	29-09-2007

**21. Sponsored Projects :**

AQIS Application ID	Permanent Institue ID	AQIS Schemes	A.Y	Status

1-7080858739	1-5443411	RPS- Research Promotion Scheme	2019-20	Applied
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**22. Consultancy Projects** : Nil

**23. No of Patents (Filed/Published)** :

S. No	Title	Application number	Year	Filed/granted
1	An electronics circuit based power consumption monitoring system	201941051669	2019	Filed

**24. Awards / Honors received** : Nil

**25. Professional memberships** :

S. No	Name of the professional body	Membership No	Membership type
1	IEEE	96123655	Yearly
2	ISTE	LM 53243	Life member
3	IEI	M-153776-2	Life member
4	IETE	M 500575	Life member

**26. Membership in BOS / Editorial boards** :

S. No	Name of the University/Journal	Member/Editor /Reviewer	Period
1	IET – Image Processing	Reviewer	2019 to till date
2	Springer Nature Applied Science (SNAP)	Reviewer	2018 to till date
3	Current Signal Transduction Therapy' (Bentham science Publications)	Reviewer	2017 to till date

**27. Details of personal blogs / Educational YouTube Channels/e content (if any):**

Google Scholar: <https://scholar.google.co.in/citations?user=RK-INhMAAAAJ&hl=en>

Research gate: <https://www.researchgate.net/profile/Satish-Rapaka>

Publons: <https://publons.com/researcher/3241350/dr-rapaka-satish/>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57203901734>

Edmodo: [https://new.edmodo.com/groups/24-ece-a-emtl-37517706?utm\\_source=classes\\_page](https://new.edmodo.com/groups/24-ece-a-emtl-37517706?utm_source=classes_page)

YouTube: <https://www.youtube.com/playlist?list=PLBLM-FeWEuv1ar9godgkINlaUb9o7KNIV>

## **28. Details of Innovation Design / Development of Product or model (if any):**

An innovative design titled “An electronics circuit based power consumption monitoring system”, has been patented with CBR41158, Appl. No: 201941051669

## **29. Technology transfer :**

1. Resource person for “SCT Police Constables (Communications) training” held during 27<sup>th</sup> Jan to 7<sup>th</sup> Feb 2018 at District Police Training Center, Govt. of AP, Pedavegi, Eluru
2. Session chair for “A Student Technical Paper Contest-2016” held on 1<sup>st</sup> Feb 2016 at IETE Vijayawada Center
3. ABET USA Standards, PEO’s PO’s, Application Oriented Teaching etc.,
4. Bloom Taxonomy Based Question Building
5. Preparation of Course Handouts, Lesson Plans, Lab Manuals

## **30. Special achievements (if any) :**

Published 3 SCI journals in IET-Image Processing, IET – Biometrics & Springer Nature journals, respectively.

## **31. Personal Details :**

- a) Father’s Name : Sri. R. Julious Fuzi Babu
- b) Mother’s Name : Smt. R. Kamala
- c) Gender : Male
- d) Marital Status : Married
- e) Nationality : Indian

Signature