BIO-DATA

Dr.K.SRINIVASA RAO
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Career Objective: Committed to providing quality education in Electronics and Communication Engineering, backed by strong achievements in research, teaching, and administration. Dedicated to guiding students towards their academic and professional goals using my expertise.

Educational Qualifications

S. No	Course	Branch / Specialization	Institute / University	Month & Year
1	**Ph.D**	**E.C.E / Wireless communications**	**J.N.T University Kakinada**	**May, 2016**
2	**AICTE-QIP PG Certification on Machine Learning**		**IIIT - Raichur**	**December, 2024**
2	M.Tech	E.C.E / I&CS	J.N.T University Kakinada	Oct, 2007
3	B.Tech	E.C.E	D M S SVH College of Engineering, Machilipatnam.	April, 2002

Teaching Experience: 20 years

S.No.	College	University	Post held	Duration		Ratified (Y/N)	Date of Ratification	Exp. in yrs.
				From	To			
1	Dhanekula Institute of Engineering and Technology, Vijayawada	J.N.T.U Kakinada	Professor	14th July 2022	Till date	Y	28-12-2024	2.5 Years
2	G.V.P College of Engineering for Women, Visakhapatnam.	J.N.T.U Kakinada	Associate Professor	1st July 2016	13th July 2022	Y	17-09-2016	6 years
3			Assistant Professor	17th June 2010	30th June 2016	Y	12-09-2012	6 years
4	Vignan's Institute of Information Technology, Visakhapatnam	J.N.T.U Kakinada	Associate Professor	1st July 2008	17th June 2010	N	--	3 years 6 months
5			Assistant Professor	6th Dec. 2006	30th June 2008			
6	Vignan Engineering College, Gunturu	J.N.T.U Kakinada	Assistant Professor	27th Nov. 2006	5th Dec. 2006			
7	G.V.P College of Engineering, Visakhapatnam	J.N.T.U Kakinada	Assistant Professor	8th Sept 2003	30th Oct 2006	N	--	3 years 1month

Title of Ph.D thesis : **PERFORMANCE ANALYSIS OF MIMO-OFDM SYSTEMS**

NPTEL Certificates: 1. Python for Data science, got Elite with silver in Mar'2025.

Credentials:

1. **Co-PI for the Consultancy Project**: **"Study and Development of Temporal Sidelobe Level Reduction Methods for Pulse Doppler Radars" has been sanctioned by Electronics & Radar Development Establishment (LRDE), DRDO, Bangalore, the amount Rs 9.5 lakhs with the period of one year duration w.e.f April 2021.**
2. GATE qualified in the year 2003 with percentile 90.73.
3. Worked as HoD for 4 years of ECE Department at GVP College of Engineering for Women, Visakhapatnam.
4. Presently working as Professor of ECE and IQAC coordinator at Dhanekula Institute of Engineering and Technology, Vijayawada.

Patents filed: 03

1. "**Children Safeguard Smart Bicycle using AI Technologies**", Application No. 20224150130, Date: 02-09-2022, office of the Controller General of Patents, Design & Trade Marks, Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India.
2. **"Machine Learning Based Teaching Assistance Apparatus for Teaching Braille Language to the Blind Students"**, certificate of Registration for a UK Design, design number: 6281648, registration date: 11 May 2023, grant date: 21 May 2023.
3. **Frequency Selective Surfaces as Reflectors to Improve Radiation Properties of UWB Antenna**, patent no: 202341058783 A, Indian patent published on 06-10-2023.
4. **Ultra-high rate Reliability fairness grant free Massive URLLC Noma system**, Indian patent, application No.202441095357 A, publication Date : 13/12/2024.

Papers publications

International Journals: 25 (18 papers were indexed in Scopus profile)

1. K.Srinivasa Rao, et.al," Design of compact true wireless stereo (TWS) antenna in earphones for wearable communication applications", IOP Publications (SCI), Engineering Research Express, Volume 7, Number 1, ISSN: 2631-8695 20-01-2025, https://doi.org/10.1088/2631-8695/ada873.
2. K.Srinivasa Rao, et.al, "A robust segmentation of retinal fluids from OCT images using MCFAR-net", Neurocomputing (SCI-IF:5.5), Vol: 599, ISSN: 1872-8286, June 2024, https://doi.org/10.1016/j.neucom.2024.128059
3. K.Srinivasa Rao, et.al, "**Rate 5/6 TCM Code having 64 State with 64 QAM for fading Channel**", International Journal of Electrical and Electronics Research (IJEER), (Scopus) ISSN: 2347-470X April 2024, Vol. 12, Issue-2, https://doi.org/10.37391/IJEER.120207
4. K.Srinivasa Rao, et.al, "**Development of CPW Fed Slot Antenna with CSRR for Biomedical Applications",** Journal of Circuits, Systems and Computers (SCI), 1793-6454, https://doi.org/10.1142/S0218126624502402
5. K.Srinivasa Rao, et. al., "**Design of Arduino UNO based smart irrigation system for real time applications",** International Journal of Reconfigurable and Embedded Systems (**Scopus**), Vol. 13, No. 1, March 2024, pp. 105~110, 2089-4864, DOI: http://doi.org/10.11591/ijres.v13.i1.pp105-110.
6. K.Srinivasa Rao, et.al, "**Real-Time Implementation of LWT Based Novel IR and VI Fusion Algorithm Using Raspberry Pi Platform**"**,** Telecommunications and Radio Engineering (Scopus), 1943-6009, February 2024, https://doi.org/10.1615/TelecomRadEng.2024050870.

7. K.Srinivasa Rao, et. al., “Secure Healthcare Model Using Multi-Step Deep Q Learning Network in Internet of Things”, MDPI-Electronics (SCI-Q2), Volume-13, Issue-3, 5 February 2024, 2079-9292, DOI: 10.3390/electronics13030669
8. K.Srinivasa Rao, et. al., “Joint Motion Affinity Maps (JMAM) and Their Impact on Deep Learning Models for 3D Sign Language Recognition”, IEEE Access (SCI-Q1), Volume: 12, 16- January 2024, PP: 11258 – 11275, 2169-3536, DOI: 10.1109/ACCESS.2024.3354775
9. K.Srinivasa Rao, et. al., “Shell-Net: A Robust Deep Neural Network for the Joint Segmentation of Retinal Fragments”, International Journal of Imaging Systems and Technology (SCI), ISSN: 1098-1098, Vol. no. 33, Page no. 1-23, Sep’2023. https://onlinelibrary.wiley.com/share/author/8P2QC3BKDTVG9Q865TR6?target=10.1002/ima.22962
10. K.Srinivasa Rao, et. al., “Functional Analysis in the Body Environment for a Circularly Polarized Hybrid Reconfigurable Textile Antenna”, Physica Scripta (SCI), ISSN: 1402-4896, Vol. No. 98, no. 10, Page no. 1-25, Sep’ 2023. https://doi.org/10.1088/1402-4896/acf807
11. K.Srinivasa Rao, et. al., “Early Fire Detection technique for human being using Deep learning Algorithm”, Indonesian Journal of Electrical Engineering and Computer Science, (Scopus), ISSN: 2502-4752, Vol. 31, No. 3, Page no. 1648-1655, Sep’ 2023, DOI: 10.11591/ijeecs.v31.i3.pp1648-1655.
12. K.Srinivasa Rao, et. al., “Temporal GAN Ensemble with Bagging for Robust Information Security in IoT Sensor Networks”, IJTACT Journal on soft computing, 2229-6956, Vol.14, Issue:3, Page no. 3024-3028, Sep’ 2023, UGC Care journal, DOI: 10.21917/ijct.2023.0450.
13. K.Srinivasa Rao, et. al., “Implementation of Turbo Trellis Coding Modulation Scheme for Fading Channel”, International Journal of Electrical and Electronics Research (Scopus), e-ISSN: 2347-470X, Vol.11, Issue 3, 30 July 2023, Page no: 669-674, DOI: https://doi.org/10.37391/ijeer.110305.
14. K.Srinivasa Rao, et. al., “Intelligent System for Prediction of Potentially Hazardous Nearest Earth Objects Using Machine Learning”, International Journal of Intelligent Systems and Applications in Engineering (Scopus), ISSN: 2147-6799, Vol. 12, No. 1s, Page no. 71-80, Sep’ 2023, https://ijisae.org/index.php/IJISAE/article/view/3396
15. K.Srinivasa Rao, et. al.,” A Hybrid Retina Net Classifier for Thermal Imaging”, Applied Science- MDPI (SCIE), ISSN: 2076-3417, Vol. 13, Issue. 14, July 2023, Page No. 1-13, https://doi.org/10.3390/app13148525.
16. K.Srinivasa Rao, et. al., “Design of Turbo Trellis Coding Modulation Scheme of Rate 4/9 for Rician Fading Channel”, International Journal on Recent and Innovation Trends in Computing and Communication (Scopus), ISSN: 2321-8169, Vol: 11, Issue: 6, Page No. 198-203, June 2023, DOI: https://doi.org/10.17762/ijritcc.v11i6.7382.
17. K.Srinivasa Rao, et. al., “Multiuser Detection using NOMA Technique in FD-MC-CDMA System in Fading Channels”, International Journal of Innovative Technology and Exploring Engineering (IJITEE) (Scopus), ISSN: 2278-3075, Volume-9, Issue-2, Page no.3247-3251, December 2019, DOI: 10.35940/ijitee. B7774.129219.
18. K.Srinivasa Rao, et. al., “IoT based Smart Fridge Application”, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, pp: 367-376, Vol. 10 Issue 12, December-2021, IJERTV10IS120160.
19. K.Srinivasa Rao, et. al., “Multiuser Detection and Channel Estimation for CDMA System under Flat Fading Channels”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-4, February 2020, 2884, SCOPUS Indexed, DOI: 0.35940/ijitee. D1614.029420.

20. K.Srinivasa Rao, et. al., "Performance Analysis of MIMO-OFDM Using NCT Companding Transform", International Journal of Electronics Engineering Research (IJEER), 0975-6450, Volume 9, Number 3 (2017), pp. 409-427. Index Copernicus, DOI: 10.35940/ijitee.B7774.129219.
21. K.Srinivasa Rao, Dr.B.Prabhakara Rao "Non-Linear Companding Transform Aided MIMO-OFDM Systems," IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) e-ISSN: 2278-2834, p- ISSN: 2278-8735(IF: 1.56).Volume 9, Issue 5, Ver. II (Sep - Oct. 2014), PP 22-30.
22. K.Srinivasa Rao, Dr.B.Prabhakara Rao "Performance Evaluation of Non Linear Companding Transform MIMO-OFDM," international Journal of Computer Applications (IF: 0.791), (0975 – 8887) Volume 95– No. 11, June 2014.
23. K.Srinivasa Rao, Dr.B.Prabhakara Rao "PAPR Analysis by Adaptive Active Constellation Extension for STBC MIMO-OFDM Systems." International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE, ISSN 2278 – 3091 – (IF: 0.378), Vol.2, No.5, Pages: 59-63 (2013)
24. K.Srinivasa Rao, Dr.B.Prabhakara Rao "PAPR Reduction of STBC MIMO-OFDM Systems Using Adaptive Active Constellation Extension", i-manager's Journal on Wireless Communication Networks, page no: 1-7, Vol. 1. No. 3. October – December 2012. ISSN: 2319-4839(Print), ISSN: 2320-2351(Online).
25. K.Srinivasa Rao, Dr.B.Prabhakara Rao, Dr.M.V.S Sairam "Peak-to-Average power reduction in MIMO-OFDM Systems using Sub-Optimal Algorithm" in International Journal of Distributed and Parallel systems (IJDPS), page nos: 261-274, Vol. 3, No.3, May 2012. ISSN: 0976-9757 (Online), 2229-3957 (Print). Indexing: Google Scholar.

International Conferences: 04

1] **K.Srinivasa Rao**, Prof.K.Raja Rajeswarim, N.Roopa Vathi " Low Sidelobes Patterns for Pulse Doppler Radar Detection Using Artificial Neural Networks", IEEE connect 2022, 08th – 10th July 2022.

[2] **K.Srinivasa Rao**, Prof.K.Raja Rajeswarim , N.Roopa Vathi "Opportunistic Subcarrier Allocation scheme for FFR-aided LTE networks", 49th Mid Term Symposium (MTS-2018) on Recent Trends in Wireless Communications during 8-9th April, 2018 at AUCE(A), Visakhapatnam. This paper was submitted to Springer Journal, status is under review.

[3] **K.Srinivasa Rao**, Dr.B.Prabhakara Rao "Novel Scheme for reduction of PAPR of MIMO-OFDM based on Non-linear companding transforms", ICCNASP-2013, International conference on Communications, Networking and Signal processing held during 19-21 September, 2013 at VIT, Vellore.

[4] Katyayani Kaligathi, **K.Srinivasa Rao**, Seetala Santha Kumari, and G. Prabhakara Rao "Performance Analysis of DSSS System Using Adaptive Filters in Interference Prone Environment", S.C. Satapathy et al. (Eds.): Proceedings of the InConINDIA 2012, AISC 132, pp. 309–317. Springer link.com © Springer-Verlag Berlin Heidelberg 2012.

Awards: K.Srinivasa Rao, "Best Academician Award", IJIEMR-ELSEVIER SSRN RESEARCH AWARDS 2022 held on 10th September, 2022, Vijayawada.

Research Id's:

ORCID Id:

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1. **https://orcid.org/0000-0002-0102-8246**

Scopus Id:

2. **https://www.scopus.com/authid/detail.uri?authorId=58552247700**
3. **Scopus Author ID: 58552247700**

Web of Science Id: AIE-2428-2022

4. **https://www.webofscience.com/wos/author/record/AIE-2428-2022**

   Web of Science ResearcherIDAIE-2428-2022

5. **Google Scholar Id:**

   https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AJsN-F53YCkz3QU_SVgIsOva_osSirCcdLM4qwCou9nzaKYFFSAyHXVzOk4-tPtHx4OiCLX2pvIlC4zHAnLWBxMMbCW7CbZLGQ&user=ZcyjC54AAAAJ

6. Vidwan-ID : 185838
   https://vidwan.inflibnet.ac.in//profile/185838

Online Certification Courses Completed:

1. Analog Communications, Nov 2019, NPTEL, IIT Kharagpur.
2. Modern Digital Communication Techniques May 2019, NPTEL, IIT Kharagpur.
3. Evolution of air interface towards 5G, IIT Kharagapur, 8 weeks course, Feb to April 2020.
4. Programming for Everybody (Getting Started with Python) Coursera. 06/14/2020
5. Support Vector Machines with scikit-learn Coursera, 06/14/2020
6. Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, Coursera 07/31/2020.
7. AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 27-04-2020 to 01-05-2020 at University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra.
8. 5-Day Workshop on Fight Covid-19 using “IoT”. Enovate Skill, a unit of Enovation Lab LLP, Chandigarh from 6thto 10thJuly, 2020.
9. 6 weeks on “Crash course on python”, Coursera from 01-08-20
10. 6 weeks FDP on “Introduction to Machine Learning”, Coursera from 01-09-20.
11. 4 weeks Online course on “MATLAB onramp course” MATLAB from 01-11-2020.

Work Shops Attended	:	15
Projects guided	:	B.Tech- 25, M.Tech- 03
Areas of interest	:	Analog and Digital Communications, Wireless Communications, & IoT, AI, ML.
Administrative experience	:	Head of the Department from 2018 to 2022.
Membership associated	:	FIETE

Subjects Handled:

Analog communications, Digital Communications, Probability Theory & Stochastic Process, Signals & Systems, Digital Signal Processing, Electronic Devices and Circuits, Digital Logic Design, Optical Communications, STLD.

Labs Handled:

Digital Communication lab, Analog Communication Lab, Digital Signal Processing Lab, IC/PDC Lab, Electronic Circuit Analysis Lab, Electronic Devices and Circuits Lab, DSD/DICA Lab.

Workshops Conducted : 04

1. The 5-Day Workshop on Fight Covid-19 using "IoT" via online mode organized by the Department of Electronics and Communication Engineering, GVPCEW in association with Enovate Skill, a unit of Enovation Lab LLP, Chandigarh from 6thto 10thJuly, 2020.

1. Three-day workshop on "ADVANCED DIGITAL SIGNAL PROCESSING AND APPLICATIONS" (ADSPA -11), 2nd –4th July 2011, Department of E.C.E, GVPCEW.
2. Two-day national level workshop on COGNITIVE RADIO TECHNOLOGIES (CRT-15), Department of E.C.E, GVPCEW, 25th –26th September, 2015.
3. Three-day faculty development program on "Advanced Signal Processing and Communication Systems" department of E.C.E, GVPCEW, 22nd to 24th Nov' 2017.

Personal Profile

Name	:	Dr.K.Srinivasa Rao
Father's name	:	K.Srirama murty
Date of birth	:	05-05-1980
Marital status	:	Married
Religion/Nationality	:	Hindu/Indian

Permanent Address:	**Present Address:**
Door No. 1-51-8/3, Flat No:101, Ground Floor, Sai Maruthi Residency, Sector-01, M.V.P Colony, Visakhapatnam-530 017.	Flat No:14, Block No:5, Anil Castles Apartment, Gollapudi, Vijayawada-521 225.

I hereby declare that the information furnished by me is correct and proved to be true to the best of my knowledge and belief.

Date: 28-01-2025 (Dr.K.SRINIVASA RAO)