Dr. S. Srinivasa Rao
Associate Professor

Education Qualifications: Doctor of Philosophy
Specialization: Signal Processing

ADDRESS:
- C – Block -Room No 306

JNTUH ID: 78150402-141248

EMAIL:
   ssrinivasarao_ece@mgit.ac.in

DATE OF JOINING:
   17-10-2001

EXPERIENCE – 20 Years
- Teaching -20

SUMMARY:
- Publications - 15
- Conferences - 04
- Patents – 1

EVENTS:
- Organized - 02
- Attended - 60

LET'S MEETON SOCIAL:
- https://www.facebook.com/mgithyderabad
- https://www.instagram.com/mgithyderabad
- https://www.linkedin.com/company/mgithyderabad
- https://twitter.com/MGIThyderabad

Membership of Professional Bodies:
1. **Fellow** of Institute of Electronics & Telecommunication Engineers, India.
2. **Life Member** of Indian Society for Technical Education, India.

Responsibilities Held At Institution Level
1. Member, Co-Curricular and Extra-Curricular Activities from 10-10-2020 to till date.
2. Member, Internal Complaints committee from 10-10-2020 to till date.

Responsibilities Held At Department Level
1. In-charge, Time Tables from 2018 to till date.
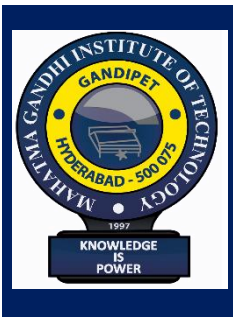2. Co-coordinator, Autonomous Syllabus from 2020 to till date.

Courses Handled at Under Graduate /Post Graduate Level:
1. **UG:** Digital System Design, Computer Organization, Microprocessor and Microcontrollers, Embedded System Design, Internet of Things.
2. **PG:** Introduction to Embedded System Design, Embedded and Real time Operating Systems.

Publications:

International Journals:
1. Sirasani Srinivasa Rao, K. Loheswaran, V. Subba Ramaiah, P. Malathi, M. Prabu, V. R. Niveditha, "Powerful basic frequency extraction from monophonic signs utilizing versatile sub-band separating", International Journal of Speech Technology, July 2021 (Online: https://doi.org/10.1007/s10772-021-09874-4).
2. Sirasani Srinivasa Rao, Nama Ajay Nagendra, Ibrahim Patel, K. Saikumar, "X'Finding Events of ECG Signal Using Wavelet Transform Decomposition Methods for Sustainable Application" Journal of Green Engineering (JGE), Volume -11, Issue-2, Feb 2021, Page Nos. 1321-1337.
3. S Srinivasa Rao, V. Subba Ramaiah, A.Ratna Raju, N.Lakshman Pratap, & K.Saikumar, "A Real Time Energy Efficiency Wireless Sensors Networks Coverage and Localization for Sustainable Applications", Journal of Green Engineering (JGE), Volume -10, Issue-12, December 2020, Page Nos. 13724-13733.

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4. S Srinivasa Rao, Mr.G.Ravi Kumar, Dumpa Prasad, "Survey on Analog Filter Design using oscillators", Annals of the Romanian Society for the cell Biology, 8 May 2021, Vol. 25, Issue 6, 2021, Pages. 1687-1693.

5. Sirasani Srinivasa Rao, V. S. N. Kumar Devaraju, "An Advanced Satellite Image Based Land Cover Interpretation Using Airborne Information", Turkish Journal of Computer and Mathematics Education, Vol.12 No.11 (2021), Pp-4615-4622.

6. Sirasani Srinivasa Rao, V. S. N. Kumar Devaraju, V. SubbaRamaiah, K. Raghu, K.Saikumar, "A Real and accurate vegetable seeds classification using image analysis and fuzzy technique", Turkish Journal of Physiotherapy and Rehabilitation, 32(2), ISSN 2651-4451| e-ISSN 2651-446X.

7. S Srinivasa Rao, V. Subba Ramaiah, V.S.N.Kumar Devaraju, "Speaker Diarization based on Black-Hole Entropy Fuzzy Clustering using Cepstral Features", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-9 Issue-4, April 2020. *DOI: 10.35940/ijeat.D7832.049420.*

8. S.Srinivasa Rao, V.Subba Ramaiah, K.Raghu, "Energy Efficient Routing in IoT Based on Chronological Atom Search Optimization", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9, Issue-4, February 2020. *DOI: 10.35940 /ijite .D1546.029420.*

9. S. Srinivasa Rao and K.Raghu "Energy Constraint Node Cache Based Routing Protocol for Wireless Sensor Networks" International Journal for Innovative Research in Science & Technology, Volume 4, Issue 9, February 2018 ISSN (online): 2349-6010.

10. S. Srinivasa Rao and Dr. P. Siddiah "Design of Binary Phase Sequences using Modified Particle Swarm Optimization for Spread Spectrum and Radar Applications" ARPN Journal of Engineering and Applied Sciences, VOL. 13, NO. 2, JANUARY 2018, pp. 559-568, ISSN 1819-6608.

11. S. Srinivasa Rao and K. Raghu "Performance Analysis of Optimal Path using DSR and NFPQR Protocols" International Journal of Science Technology & Engineering, Volume 4, Issue 5, November 2017 ISSN (online): 2349-784X.

12. S. Srinivasa Rao and Dr. P. Siddiah "Design and Implementation of Four-Phase Sequences on FPGA using Modified Particle Swarm Optimization for Radar Applications**,** International Journal of Applied Engineering Research, Volume 12, Number 11 (2017), pp. 2907-2915, ISSN 0973-4562.

13. S. Srinivas Rao & N. Aranya Tejan "Cooperative beam forming using multiple relay path based multiple destination analysis on cognitive radio networks", International Research Journal of Engineering and Technology (IRJET), Volume – 02, Issue – 07, October 2015.

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- https://www.linkedin.com/company/mgithyderabad
- https://twitter.com/MGIThyderabad

14. S. Srinivasa Rao and Dr. P. Siddiah and Ramya "Generation of Sequences with Good Correlation Properties Using Modified Bat Algorithm" in the IJRECE, VOL. 2 ISSUE 4, Oct-Dec 2014, pp. 71-74, ISSN 2348-2281.

15. S. Srinivasa Rao and Dr. S.P. Singh, "Binary Sequences Design Using MGA" International Journal of Computational Intelligence Research, ISSN 0973-1873 Volume 6, Number 4 (2010), pp. 531–540.

Conferences:

International:

1. S. Srinivasa Rao and G. Madhavi, "Pest Detection for Rice Using Artificial Intelligence", International Research Journal on Advanced Science Hub, Volume 03, Issue 05S, May 2021.

2. S. Srinivasa Rao and Dr.P.Siddiah, "Generation of Sequences with Good Correlation properties using PSO", ICIECE-2013, Gurunanak Institute of Technology, Hyderabad, 9th & 10th August, 2013.

3. S. Srinivasa Rao, Dr. P. Siddiah and K.Raghu "Generation of sequences with good correlation properties using MPSO", International Conference on Navigational Systems & Signal Processing Applications (NSSP-2013), University College of Engineering& Technology, Acharya Nagarjuna University, Guntur, India,13-14 December 2013.

National:

1. S.P singh, K. Subba Rao., and SS Rao, "Orthogonal Sixteen-phase Sequence Sets Design for Radar", presented in national Conference NCASP-09, December 2009, AU, Visakapatnam.
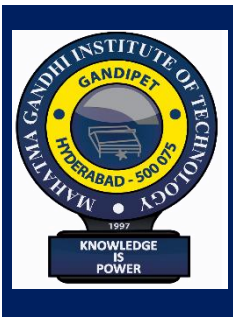
Patents:

1. Patent on "Face Deterction and Recognition using SVM and HOG Technologies", Application No.202141051519 A. The Patent Office Journal No. 50/2021 Dated 10/12/2021.

No. of Books/Chapter Published with details:

1. Published one chapter on, "Estimation of Secured Wireless Sensor Networks and its Significant Observation for Improving Energy Efficiency using Cross-Learning Algorithm", in the book titled Innovations and Applications of AI, IoT, and Cognitive Technologies(Chapter 31), June 2021, ISBN13: 9781799868705.

Events Organized:

FDPs/STTPs:

1. "Recent Advances in Embedded Systems" at MGIT from 7th – 11th August 2020.
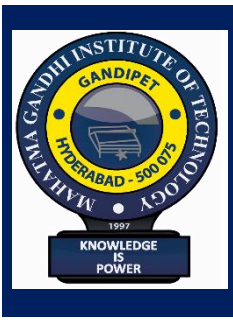
Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. Zonal Level Workshop on Robotics "NRC INDIA 2013-14" in Coordination with ARK Technologies in Feb 2014 at ECE Dept., MGIT.

Events Attended:

FDPs/STTPs:

1. FDP on "Natural Language Processing", organized by Electronics & ICT Academies at IIT Kanpur, IIT Roorkee, MNIT Jaipur, PDPM IIITDM Jabalpur and NIT Patna supported by Ministry of Electronics and Information Technology, from 7 –18 February 2022.
2. National Level Online Faculty Development Program(FDP) on "Societal Applications of AI, Blockchain, and IoT" organized by the Department of Computer Science & Engineering of Shri Vishnu Engineering College for Women(A) from 1-5, September 2021.
3. FDP on "Digital VLSI Design and Verification" organized by Department of ECE, Bangalore Institute of Technology in association with Entuple Technologies and IEEEBIT CAS from 23- 27 August 2021
4. AICTE Training and Learning (ATAL) Academy Online FDP on "A Blend of Internet of Things, Cyber Security & Blockchain and Applications" from 23-27 August 2021, organized by National Institute of Technology, Silchar.
5. AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things: Product Design, Development and Implementation" from 02-06 August 2021, organized by Shri Sant Gajanan Maharaj College of Engineering, Shegaon.
6. AICTE Training and Learning (ATAL) Academy Online FDP on "Deep learning for computer vision" from 26-30 July 2021, organized by KIET GROUP OF Institutions.
7. AICTE Training and Learning (ATAL) Academy Online FDP on "IoT Applications with Blockchain Techniques" from 17-21 July 2021 at National Institute of Technology.
8. AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things" organized by National Institute of Technology, Warangal, from 22nd- 26th June 2020.
9. AICTE Training and Learning (ATAL) Academy Online FDP on "Robotics" organized by College of Technology And Engineering , UDAIPUR, from 11th-15th June 2020.
10. Online FDP on "Deep Learning and its Applications" organized by EICT IIT Roorkee in association with Diginique TechLabs, from 11th- 20th May 2020.

11. Two Week Faculty Development Programme on "Research Trends in Digital Image and Video Processing" Organized by ECE Dept. from 4-16 Dec 2017 at MGIT, Hyderabad.
12. One Week National Level Faculty Development Programme on "Research Trends in Digital Image and Video Processing" Organized by ECE Dept. from 22-27 Dec 2016 at MGIT, Hyderabad.
13. One Week ISTE Faculty Development Programme on "Teaching, Learning and Research in Engineering and Technology" Organized by ISTE Chapter-MGIT from 30 July-03 Aug 2012 at MGIT, Hyderabad.
14. One Week National Level Workshop on "Digital Learning Technologies" from 4-5 Mar 2011 at JNTU, Hyderabad.
15. One Week Faculty Development Programme on "Full Custom IC Design and FPGA Design Flow" Organized in Association with ISTE Chapter-VNRVJIT from 23-25 Feb 2012 at VNRVJIT, Hyderabad.

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. "Internet of Things using NODE MCU" by PANTECH SOLUTIONS on 23rd June 2020.
2. "Custom IP Design and Validation Using Vivado" by CoreEL Technologies and Xilinx on 22nd May 2020.
3. "Machine Learning and Cyber Security: Continuing Convergence" by IEEE CIS/GRSS Jt Chapter Societies on 28th April 2020.
4. "Analog IC Design Using Mentor EDA Tools" by CoreEL Technologies and Mentor Graphics on 10th April 2020.

Online Certifications:

1. Course on "Programming for Everybody (Getting Started with Python)" - COURSERA Platform.
2. Course on "The Raspberry Pi Platform and Python Programming for the Raspberry Pi" - COURSERA Platform.
3. Course on "Introduction to Data Science" - COURSERA Platform.
4. Course on "Advanced Computer Architecture" - NPTEL Platform.