RESUME

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Career Objective

To work with a reputed institution as an teacher, that will provide me a good platform to utilize my teaching, research & administration skills and will help me to grow my career.

Academic Profile

- Completed **Ph.D** (New Navigation Solutions for GAGAN based PAs) in ECE, Andhra University College of Engineering, Visakapatnam, January 2017.
- Awarded **M.Tech** in Digital Electronics and Communication Systems from JNTU Kakinada (Chaitanya Engineering College, Visakhapatnam), Oct 2009 Mar 2012 with **76.85%**.
- Completed **Post Diploma in RTOS (Embedded systems)** at Hyderabad (Cranes Software International Pvt. Ltd.,) 2008-2009.
- Awarded **B.Tech** in Electronics & Communication from JNTU Hyderabad (Pydah College of Engineering, Visakhapatnam), 2005-2008 with **70.86** %.
- Completed **Diploma** in Electronics & Communication Engineering at Govt., Polytechnic, Narsipatnam, 2002-2005 with **81.3** %.
- Completed **SSC** at Visakhapatnam (N.T. College), 2001-2002 with **86 %**.

Professional Experience

Total Experience: 8 Years

Pre M.Tech: 01 Year

Post M.Tech: 05 Years (Includes Research Experience of 2 Years)

Post Ph.D 02 Years

- **July 2019 to till date:** Working as Associate Professor in the Department of E.C.E, Gayatri Vidhya Parshad College of Engineering for Women (GVPCEW), Visakhapatnam.
- **June 2017 July 2019:** Worked as Asst. Professor in the Department of E.C.E, Gayatri Vidhya Parshad College of Engineering for Women (GVPCEW), Visakhapatnam.
- **June 2012 May 2017:** Worked as Asst. Professor in the Department of E.C.E, Anil Neerukonda Institute of Technology and Science (ANITS), Visakhapatnam.
- **2010-2011:** Worked as Asst. Professor, Dept. of E.C.E, Vignan Institute of Engineering for Women (VIEW), Visakhapatnam.
- 2009-2010: Worked as Part-time lecturer in the Dept. of E.C.E, Govt. Polytechnic, Anakapalli.

Research Experience

- Worked as Junior Research Fellow (**JRF**) in **UGC MRP project** sanctioned under Ltr. No. 42-126/2013(SR), Dt.: 25-03-2013, in Andhra University during the period June 2013-June 2015.
- Worked as Senior Research Fellow (SRF) in UGC MRP project sanctioned under Ltr. No. 42-126/2013(SR), Dt.: 25-03-2013, in Andhra University during the period June 2015-March 2016.

Major Roles and Achievements

- 1. Best **Researcher Award "Gold Medal-2019"** from ANDHRA UNIVERSITY received from Honorable GOVERNOR-E. S. L. Narasimhan.
- 2. **Reviewer** for the Journal "International Journal of Engineering & Technology (IJET)" since August 2018. (SCOPUS Indexed)
- 3. **Reviewer** for the Journal "Aerospace Science and Technology" (**Elsevier, SCI Indexed**) since April 2018.
- 4. **Reviewer** for the Journal "IEEE Open Access Journal" (Impact Factor 1.270, **SCI Indexed**) since September 2016.
- 5. **Reviewer** for the Journal "Telecommunication Systems" (Springer, SCI Indexed).
- 6. **Reviewer** for the International Conference "Microelectronics, Electromagnetics and Telecommunications"- ICMEET 2019".
- 7. Successfully completed an **NPTEL** course "Global Navigation Systems and Applications" and secured Elite+Silver grade during 2019.
- 8. Successfully completed an **NPTEL** course "Switching Circuits and Logic Design" and secured Elite grade during 2018.
- 9. **Best Paper Award** for the Paper, "DFGPS Receiver Performance Analysis with LS and LQ Estimators", conference on Emerging trends in Signal Processing and Communication Engineering, ESPACE-2015, Tekkali, Visakhapatnam, February 20th -21st 2015.
- 10. **Best Paper Award** for the Paper, "Performance evaluation of standard positioning services GPS receiver with LS and LQ estimators over southern region of Indian Sub-Continent", ICSEMR 2014, Chennai, Tamilnadu, India, Nov 27-29, 2014.(IEEE Digital Xplore,DOI:10.1109/ICSEMR.2014.7043672), https://icsemr.in/Best%20Paper_ICSEMR.pdf.
- 11. **IEEE** Student Counselor for GVPCEW IEEE Student chapter.
- 12. Associate Member of IEEE Professional Society

Subjects Handled

- Analog Communications : For JNTUK
- Microprocessors and Microcontrollers : For JNTUK
- Electronic Devices and Circuits: For JNTUK
- Switching Theory & Logic Design: For AU/JNTUK
- Digital Communications : For AU/JNTUK
- Telecommunications (last taught in 2012)
- C-Programming Language (last taught in 2010)

Publications

National/International Journals: 20 and Conferences: 30

National & International Journals

- Ganesh Laveti, G.Sasibhushana Rao, Bharati Bidikar, "Modified Kalman Filter for GPS Position Estimation over the Indian Subcontinent", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Vol.87, pp.198-203, 2016. (Scopus Indexed)
- Ganesh Laveti, G.Sasibhushana Rao, D.Eswara Chaitanya, M.N.V.S.S Kumar, "TDOA Measurement Based GDOP Analysis for Radio Source Localization", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Vol.85, pp.740-747, 2016. (Scopus Indexed)
- 3. M.N.V.S.S Kumar, Nagamani Modalavalasa, **L.Ganesh**, K.Satya Prasad, G.Sasibhushana Rao, "A new approach for tracking moving objects in underwater environment", Current Science Journal, ISSN: 0011-3891, Vol.110, No. 7, pp: 1315-1323, April-2016. (SCI Indexed)
- 4. D.Eswara Chaitanya, **L.Ganesh**, G.Sasibhushana Rao, "TDOA Performance Analysis of Hyperbolic Multilateration Using Circular Error Probability", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Vol.85, pp.676-682, 2016. (**Scopus Indexed**)
- Ganesh Laveti, G.Sasibhushana Rao, S.Sudha Rani, Rajkumar Goswami, "A Survey of measurement techniques for Localization and Positioning", International Journal of Power Systems and Microelectronics (TJPRC:IJPSM), Vol.2, Issue 2, pp:51-60, 2016. (National)
- Shaik Fayaz Ahamed, G.Sasibhushana Rao, L.Ganesh, "A Robust GPS signal Acquisition Technique using Discrete Wavelet Transform", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Vol.85, pp.683-690, 2016. (Scopus Indexed)
- 7. Shaik Fayaz Ahamed, G.Sasibhushana Rao, **L.Ganesh**, "Fast Acquisition of GPS Signal using FFT Decomposition", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Vol.87, pp.190-197, 2016. (Scopus Indexed)
- 8. Bharati Bidikar, G.Sasibhushana Rao, **L.Ganesh**, M.N.V.S.S Kumar, "Orthogonal Decomposition Algorithm for Ionospheric Delay Estimation for Precise GPS Applications", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Vol.85, pp.634-640, 2016.

(Scopus Indexed)

- Bharati Bidikar, G.Sasibhushana Rao, L.Ganesh, "Sagnac Effect and SET Error based Pseudorange Modeling for GPS Applications", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Vol.87, pp.172-177, 2016. (Scopus Indexed)
- M.N.V.S.S Kumar, G.Sasibhushana Rao, L.Ganesh, Rajkumar Goswami, "Expectation Maximization Based Image Fusion Algorithm for Detection of Underwater Targets from SONAR Images", Elsevier Procedia Computer Science Journal, ISSN: 1877-0509, Vol.85, pp.782-789, 2016.

 (Scopus Indexed)

- Nagamani M, G.Sasibhushana Rao, K. Satya Prasad, L. Ganesh, M.N.V.S.S Kumar, "A new method of target tracking by EKF using bearing and elevation measurements for underwater environment", Elsevier Journal of Robotics and Autonomous Systems, ISSN: 0921-8890, Vol. 74, Part A, pp.221-228, December 2015.
- 12. **Ganesh Laveti,** M.N.V.S.S Kumar, D.Eswara Chaitanya, Rajkumar Goswami, G.Sasibhushana Rao, "Performance Analysis of Least Squares SVD and QRD Algorithms for GPS Position Estimate", TJPRC: Journal of Power Systems and Microelectronics, Vol.1, Issue 1, pp.13-19, Dec-2015. (National)
- 13. Shaik Fayaz Ahamed, G.Sasibhushana Rao, **L.Ganesh**, "Performance Analysis of Doppler shift and code phase determination algorithms for GPS signal acquisition applications", TJPRC: Journal of Power Systems and Microelectronics, Vol.1, Issue-1, pp.01-08, Dec-2015. (National)
- 14. **Ganesh Laveti,** G.Sasibhushana Rao, K.Jhansi Rani, M.N.V.S.S Kumar, D.Eswara Chaitanya, "GPS Receiver Position Estimate with Least Squares and Linear Quadratic Estimator", IFRSA Journal of Advanced Engineering, Vol.1, Issue.1, pp: 47-51, March-2015. (**International**)
- Bharathi Bidikar, G.Sasibhushana Rao, L.Ganesh, M.N.V.S.S Kumar, "Satellite SET Correction for Precise Medium Earth Orbit Estimation", IFRSA Journal of Advanced Engineering, Vol.1, Issue.1, pp.56-59, March-2015. (International)
- 16. Bharathi Bidikar, G.Sasibhushana Rao, L.Ganesh, M.N.V.S.S.Kumar, "Neutral Atmospheric Delay Effects on GPS C/A Code for Precise Navigation Applications", The IUP Journal of Telecommunications, Vol.7, Issue 1, pp.48-54, Feb 2015. (International)
- Bharathi Bidikar, G.Sasibhushan Rao, Ganesh Laveti, M.N.V.S.S.Kumar, "Satellite Clock Error and Orbital Solution Error Estimation for Precise navigation Applications", Positioning Journal, ISSN: 2150-8526, Vol.5, pp.22-26, Feb-2014. (International)
- 18. **L.Ganesh,** P.Chaya Devi, B.Chandra Mouli, A.Siva Kumar, "Automatic surface Defect identification in tanning industry using Pixel Connectivity based Edge detection algorithm", International Journal for Engineers Research and Technology (IJERT), Vol.2, Issue 11, pp:2177-2182, ISSN: 2278-0181, Nov 2013. (International)
- M.Vijaya Deepthi, M.N.V.S.S.Kumar, L.Ganesh, S. Deva Prasad, "Turbo Coding Based High Performance Technique to Minimise Privacy and Safety Issues in RFID", International Journal for Engineers Research and Applications (IJERA), Vol. 1, Issue 3, pp.879-883, ISSN: 2248-9622, Nov-2012. (International)
- 20. **L.Ganesh,** S.P.Krishna Chaitanya, J.Durga Rao, M.N.V.S.S.Kumar, "Development of Image Fusion Algorithm for Impulse Noise Removal in Digital Images Using the quality Assessment in Spatial Domain", International Journal for Engineers Research and Applications (IJERA) ,Vol. 1, Issue 3, pp.786-792, ISSN: 2248-9622, Nov-2012. (International)

National & International Conferences

- Ganesh Laveti, D Eswara Chaitanya, P.Chaya Devi, T.Vinodh Kumar, "Positioning Strategies: Implementation and Applications of Major Source Localisation and Positioning Approaches over Indian Subcontinent" International Conference on Micro-electronics Electromagnetics and Telecommunications- ICMEET 2019, Visakhapatnam, Dec 6th & 7th 2019. (Scopus Indexed)
- Ganesh Laveti, Sasibhushana Rao Gottapu, "A Modified Variance Kalman Filter for GPS Applications", Springer Advances in Intelligent Systems and Computing, ISSN: 2194-5357, India-2017. (Scopus Indexed)
- 3. Shaik Fayaz Ahamad, **L.Ganesh,** Rajkumar Goswami, G.Sasibhushana Rao, "Fast Acquisation of GPS Signal using Radix-2 and Radix-4 FFT", IEEE International Advance Computing Conference, SRKR Bhemavaram, pp: 674-678, ISBN 978-1-4673-8286-1, Feb-2016. (**IEEE Digital Xplore**)
- Bharati Bidikar, G.Sasibhushana Rao, L.Ganesh, M.N.V.S.Santosh Kumar, "GPS C/A Code Multipath Error Estimation for Surveying Applications in Urban Canyon", Microelectronics, Electromagnetics and Telecommunications, Springer Lecture Notes in Electrical Engineering, Vol.372, pp:135-142, ISSN 1876-1100, India-2016. (Springer International)
- Lavanya Vadda, G.Sasibhushana Rao, Ganesh Laveti, "Chi-Square Based Mobile Radio Propagation Model Analysis and Validation", Signal, Networks, Computing and Systems, Springer Lecture Notes in Electrical Engineering, Vol.395/01, pp:227-234, ISSN 1876-1100, India-2016. (Scopus Indexed)
- Bharati Bidikar, G. Sasibhushana Rao, L. Ganesh, M.N.V.S Kumar, "A Novel Multipath Mitigation Technique for SPSGPS Receivers in Indian Urban Canyons", Signal, Networks, Computing and Systems, Springer Lecture Notes in Electrical Engineering, Vol.396/02, pp: 233-239, ISSN 1876-1100, India-2016. (Scopus Indexed)
- Ganesh Laveti, G.Sasibhushana Rao, S.Sudha Rani, Rajkumar Goswami, "Investigation of Various position Measurement Techniques for Source Localization and Global Positioning", National conference on Electric Power and Power Electronic Control Systems, pp:113-117, AUCE(A), Visakhapatnam, 2016. (National)
- 8. Bharati Bidikar, Sasibhushana Rao Gottapu, **Ganesh Laveti**, "Ionospheric Time Delay Estimation Algorithm for GPS Applications", Springer Advances in Intelligent Systems and Computing, ISSN: 2194-5357, India-2016. (**Scopus Indexed**)
- 9. Shaik Fayaz Ahamed, **Ganesh Laveti**, Sasibhushana Rao Gottapu, "Acquisition and Tracking Algorithms for GPS Software Receiver", Springer Advances in Intelligent Systems and Computing, ISSN: 2194-5357, India-2016. (Scopus Indexed)

- D.E.Chaitanya, G Sasibhushana Rao, L Ganesh, "A Graphical Analysis of Convergence Issues Affecting TDOA Positioning", International Springer Conference on Soft Computing, Intelligent Systems and Applications, Bangalore, India, April 8-9, 2016. (International)
- Bharati Bidikar, G Sasibhushana Rao, L Ganesh, M.N.V.S.S Kumar, "Tropospheric and Satellite Clock Error effects on GPS C/A Code Range Measurements", International Conference on Advances in Signal Processing and Communications, NECICASPC-2K15, Narsaraopeta, pp:141-144,2015.

 (National)
- 12. D.Eswara Chaitanya, G Sasibhushana Rao, **L Ganesh**, M.N.V.S.S Kumar, G.Rajeswara Rao "A Study of Measurement Errors in Hyperbolic Multilateration", International Conference on Advances in Signal Processing and Communications, NECICASPC-2K15, Narsaraopeta, pp:141-144,2015. (National)
- 13. D.Eswara Chaitanya, G.Sasibhushana Rao, **Ganesh Laveti**, K.Jhansi Rani, "Performance of Fixed and Variable Step Method in Determining Unknown Source Position Using TDOA Techniques", IEEE International Conference EESCO-2015, Visakhapatnam, Andhra Pradesh, pp: 621-624, 24th 25th Jan 2015. (**IEEE Digital Xplore:** 10.1109/EESCO.2015.7253778).
- 14. P.Chaya Devi, K.Anusha, M.Kalpana, **L.Ganesh**, "Design of Low Interference High Directive Planar Antenna with Schelkunoff Polynomial Method", IEEE International Conference EESCO-2015, Visakhapatnam, Andhra Pradesh, PP: 708-710, 24th 25th Jan 2015. (**IEEE Digital Xplore:** 10.1109/EESCO.2015.7253822).
- 15. Ganesh Laveti, G.Sasibhushana Rao, M.N.V.S.S.Kumar, Rajkumar Goswami, D.Eswara Chaitanya, "A Novel TOA Measurement Based Global Evolutionary Search Estimator for Defence Applications", IEEE International Conference EESCO-2015, Visakhapatnam, Andhra Pradesh, pp. 1835-1838, 24th 25th Jan 2015. (IEEE Digital Xplore: 10.1109/EESCO.2015. 7253756).
- Bharathi Bidikar, G.Sasibhushsna Rao, S.Gotham, P.R.SriSatya, L.Ganesh, "SET Estimation Algorithm for Precise Navigation and Surveying Applications", IEEE International Conference EESCO-2015, Visakhapatnam, Andhra Pradesh, 24th–25th Jan 2015. (IEEE Digital Xplore: 10.1109/EESCO.2015. 7253666).
- 17. **Ganesh Laveti**, G.Sasibhushana Rao, K.Jhansi Rani, M.N.V.S.S Kumar, D.Eswara Chaitanya, "DFGPS Receiver Performance analysis with LS and LQ Estimators", IEEE Technically Cosponsored conference on Emerging trends in Signal Processing and Communication Engineering, ESPACE-2015, Tekkali,pp:21, February-2015. (IEEE Co-Sponsored National)
- Bharathi Bidikar, G.Sasibhushana Rao, L.Ganesh, M.N.V.S.S Kumar, "Satellite Signal Emission Time Correction for Precise Medium Earth Orbit Estimation", IEEE Technically Co-sponsored conference on Emerging trends in Signal Processing and Communication Engineering, ESPACE-2015, Tekkali,pp:24, February-2015. (IEEE Co-Sponsored National)

- Bharati Bidikar, M N V S Santosh Kumar, L Ganesh, G Sasibhushana Rao, "Signal Propagation Time Delay Estimation using Eigenvector Algorithm", National Conference on Power Systems, Andhra University, Visakhapatnam, pp:43-45, NCPS-2015. (National)
- 20. Shaik Fayaz Ahamed, G Sasibhushana Rao, L Ganesh, "Precise Estimation of Doppler Shift and Code Phase of a GPS Signal using Cooley-Tukey FFT Algorithm", National Conference on Power Systems, Andhra University, Visakhapatnam, pp:43-45, NCPS-2015. (National)
- 21. **Ganesh Laveti**, M.N.V.S.S Kumar, D.Eswara Chaitanya, Rajkumar Goswami, G.Sasibhushana Rao, "Investigation of Suitable Position Determination Algorithm for GPS Application", National Conference on Power Systems, Andhra University, Visakhapatnam, pp:43-45, NCPS-2015.

(National)

- 22. **Ganesh Laveti**, M.N.V.S.S.Kumar, G.Sasibhushana Rao, "Performance analysis of Least Squares and Linear Quadratic Estimator over Southern region of Indian sub continent", IEEE National Conference on Electrical and Electronics Engineering (NCEEE-14), pp. 101, Bangalore, Karnataka, 5th June 2014. (**IEEE Co-Sponsored National**)
- 23. **Ganesh laveti**, G.Sasibhushana Rao, P.Devi Sowjanya, "GPS Receiver clock offset estimation with batch processing and Kalman filter", NCRRECE-2014, pp. 27, Sir C R Reddy college of Engineering, Eluru, 24th -25th January 2014. (National)
- 24. G.Sasibhushana Rao, Sreelakshmi K, Bharathi Bidikar, **Ganesh Laveti**, "RCS determination of UAV with FACETS", NCRRECE-2014, pp. 26, Sir C R Reddy college of Engineering, Eluru, 24th -25th January 2014. (National)
- 25. Ganesh Laveti, G.Sasibhushana Rao, K.Jhansi Rani, "Error Analysis of GPS receiver Position with Linear Quadratic Estimator", International conference on Advances in Signal Processing and Communications-2K14 (NECICASPC-2K14), pp:130-132, Narsaraopet Engineering College, Guntur, Andhra Pradesh, 4th & 5th July 2014. (National)
- 26. **Ganesh Laveti**, G.Sasibhushana Rao, K.Jhansi Rani, A.Nalinee, A.Mahesh Babu, "GPS receiver SPS accuracy assessment using LS and LQ estimators for precise navigation", IEEE INDICON, Pune, India, 11th -13th Dec 2014. (**IEEE Digital Xplore:** 10.1109/INDICON. 2014.7030411). (**Scopus Indexed**)
- 27. Bharathi Bidikar, G.Sasibhushana Rao, Rajkumar Goswami, **L.Ganesh**, M.Santosh, "A Novel SET Estimation Algorithm for Precise Geosynchronous Orbital Solutions", IEEE INDICON, Pune, India, 11th -13th Dec 2014. (**IEEE Digital Xplore:** 10.1109/INDICON. 2014.7030413). (**Scopus Indexed**)
- 28. Ganesh Laveti, G.Sasibhushana Rao, A.Nalinee, A. Mahesh Babu, M.N.V.S.Santosh, "Performance evaluation of standard positioning services GPS receiver with LS and LQ

- estimators over southern region of Indian Sub Continent", IEEE International Conference, ICSEMR 2014, Chennai, Tamilnadu, India, Nov 27-29, 2014. (**IEEE Digital Xplore:** 10.1109/ICSEMR.2014.7043672).
- Ganesh Laveti, P.Chaya Devi, M.Vijaya Deepthi, "QA Based Video Fusion at Frame Level for Removal of Impulse Noise in Remote Sensing images" at IEEE Sponsored Conference ACNCN, PP: 1005/09, AUCE, Andhra University, Visakhapatnam, 17th-18th March 2012. (National)
- 30. **Ganesh Laveti,** P.Chaya Devi, M.Vijaya Deepthi, "Finger Pattern Recognition Using CBIR System with Artificial Neural Networks" at IEEE Sponsored Conference ACNCN, PP: 1034/38 AUCE, Andhra University, Visakhapatnam, 17th-18th March 2012. (National)

Workshops

- 1. One week Workshop on "Switching Circuits and Logic Design", NPTEL-2018.
- 2. "Custom Analog & Digital IC Design", organized by dept. of ECE, GVPCEW, Visakhapatnam in association with CoreEL Technologies, Bangalore, during 27th and 29th Sep 2018.
- 3. "Artificial Intelligence and its Impact", organized by IEEE Vizag Bay Sub Section in association with Computer Society of IEEE Hyderabad Section on 18th Aug 2018.
- 4. "Cryptology and Cyber Security", organized by dept. of ECE & CSE, GVPCEW, Visakhapatnam in association with Cryptology Research Society of India, Kolkata, during 22nd and 24th March 2018.
- 5. "Signal Processing and Communication Systems", organized by dept. of ECE GVPCEW, Visakhapatnam, India, during 15th and 17th Nov 2017.
- 6. "Matlab & Its applications in communications and signal processing", organized by dept. of ECE, AUCE (A), Visakhapatnam in association with academy of design and architecture, Hyderabad, during 12th and 13th Nov 2011.
- 7. "Wisdom, Enrichment and Rectification of Significance Irregularities", organized by BABA institute of technology and sciences, Visakhapatnam in association with society for mathematical services and standards (SOMASS) and Institute for attitude and life management (APEX) during 30th Nov 2013.
- 8. Hands on training on "Genetic Algorithm & Optimization Techniques using MATLAB & SCILAB Tools", conducted by Scientific Computing Solutions (SCS-India) at Dhi Leadership center, Bangalore during 28th and 29th Dec 2014.
- 9. Hands on training on "Biomedical Signal and Image Processing and Analysis", conducted by Scientific Computing Solutions (SCS-India) at corporate learning facility, Visakhapatnam during 14th and 15th Feb 2015.

10. Hands on training on "Artificial Neural Networks (ANN), fuzzy Logic, Genetic Algorithm and Wavelets in Signal and Image Processing Applications", conducted by Scientific Computing Solutions (SCS-India) at corporate learning facility, Visakhapatnam during 05th and 06th Feb 2016.

Declaration

I hereby declare that the above mentioned information is correct and I bear the responsibility for the correctness of the particulars.

(Ganesh Laveti)

Place: Visakhapatnam

Date: