

# 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

- Awarded **Ph.D** 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.
- 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.
- Completed **Diploma** in Electronics & Communication Engineering at Govt., Polytechnic, Narsipatnam, 2002-2005.
- Completed **SSC** at Visakhapatnam (N.T.College), 2001-2002.

## Professional Experience (Total: 7 Years/ includes Post M.Tech: 05 Years)

- **June 2017 - till date:** Working 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.

## Area of research

- Global Positioning Systems
- Digital Image Processing
- Optimization and Artificial Neural Networks
- Communication Systems

## Publications

**National/ International Journals: 20 and Conferences: 29**

### **National & International Journals**

1. **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)**
2. **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)**
5. **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)**
6. 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. 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. **(SCI Indexed)**
9. 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)**
10. 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)**

11. 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)**
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)**
15. 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)**
17. Bharathi Bidikar, G.Sasibhushana 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)**
19. 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

1. **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)**
2. **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)**
3. **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, 5<sup>th</sup> June 2014. **(IEEE Co-Sponsored National)**
4. **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)**
5. 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)**
6. **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)**
7. **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)**
8. 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)**
9. **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).**

10. 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)**
11. 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)**
12. 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).**
13. 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).**
14. **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).**
15. Bharathi Bidikar, G.Sasibhushana 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–25<sup>th</sup> Jan 2015. **(IEEE Digital Xplore: 10.1109/EESCO.2015.7253666).**
16. **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 Co-sponsored conference on Emerging trends in Signal Processing and Communication Engineering, ESPACE-2015, Tekkali,pp:21, February-2015. **(IEEE Co-Sponsored National)**
17. 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)**
18. 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)**

19. 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)**
20. **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)**
21. Shaik Fayaz Ahamad, **L.Ganesh**, Rajkumar Goswami, G.Sasibhushana Rao, “Fast Acquisition 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)**
22. 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)**
23. 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)**
24. 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)**
25. **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)**
26. 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)**
27. 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)**

28. **Ganesh Laveti**, Sasibhushana Rao Gottapu, “A Modified Variance Kalman Filter for GPS Applications”, Springer Advances in Intelligent Systems and Computing, ISSN: 2194-5357, India-2016. **(Scopus Indexed)**
29. 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)**

### **Achievements**

1. Reviewer for the Journal “IEEE Open Access Journal” (Impact Factor 1.270) since September 2016.
2. 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), [http://icsemr.in/Best%20Paper\\_ICSEMR.pdf](http://icsemr.in/Best%20Paper_ICSEMR.pdf).
3. 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, Visakhapatna, February 20<sup>th</sup> -21<sup>st</sup> 2015.

### **Workshops attended**

1. “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 12<sup>th</sup> and 13<sup>th</sup> Nov 2011.
2. “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 30<sup>th</sup> Nov 2013.
3. 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 28<sup>th</sup> and 29<sup>th</sup> Dec 2014.
4. Hands on training on “Biomedical Signal and Image Processing and Analysis”, conducted by Scientific Computing Solutions (SCS-India) at corporate learning facility, Visakhapatnam during 14<sup>th</sup> and 15<sup>th</sup> Feb 2015.
5. 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 05<sup>th</sup> and 06<sup>th</sup> 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)**