

## Academic Profile

Ganesh M. Magar  
MCA (Engg. & Tech.), Ph.D. (Computer Science)  
Associate Prof. & Head, P.G. Dept. of Computer  
Science, S.N.D.T. Women's University, Juhu Road,  
Santacruz (W), Mumbai- 400 049. (MS), India.  
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Jan@2022.

**Work Experience:** 22 Years (Teaching-20 Years + IT Industry 2Years)

**Field of Interest:-**

Geographical Information System (GIS), Web GIS, Mobile GIS, Geo Spatial tech., BIG DATA Analytics, Image Processing and SAR Imaging, Visual Data Mining, Machine Learning & AI

**Contribution towards Academic Development of the Department:**

- Proposal executed for Development of Research Lab- funded by RUSA grants of Rs. 55 Lacs in the academic year 2015-16,2016-17.
- Proposal Executed for Visvesvaraya Ph.D. Scheme for Electronics & IT, GOI, which is sanctioned and extended the financial support upto Rs. 84.41 Lacs (5-Students for 5-years)

**Research Scholars for Ph.D.: Awarded-05 - Pursuing. -01**

**Curriculum Development and Enrichment:**

- Worked on Syllabus Design Committee i.e. Ad-BOS for under graduate courses in IT, i.e. BCA, BSc.-IT, B.Tech.(CS & IT), and Post Graduate Diploma and Degree courses PGDCSA, MCA, M.Sc.-CS, M.Tech.(CS & IT) at SNDT Women's University, Mumbai., Members in BOS -in CS at Amity University Mumbai, Dombivli's Model College, Ruia College Matunga, SIES College Matunga- Mumbai University, BM Shaha College, MatungaMumbai, Sathe College Mumbai.
- Organized 2- Content Analysis workshops for new Syllabus revised -2013 for BCAtachers.

**Academic Visit to foreign Universities:**

Visited to the University of Bath and ALT at the University of Oxford Brooks, UK for meetings regarding British Council's Knowledge Economy Partnerships Program, the Faculty-training project funded by British Council, Sep 28- Oct 4,2014.

**Participation in Academic Programs:**

- Refresher Courses / Short Term Training Programme (STTP)-07
- Workshops-09, Conferences-13, Seminars-04

**Professional Membership and Contribution:**

- The Indian Science Congress Association (ISCA)-Life Member-L16632
- Computer Society of India (CSI)-Life Member-01081692
- Indian Society for Technical Education (ISTE)-LifeMember-LM-76070
- Indian Society of Remote Sensing (ISRS)-LifeMember-L-4155
- International Association of Computer Science and IT (IACSIT)-LifeMember-80347606
- Institute of Electrical and Electronics Engineers (IEEE)-Professional -93710322
  - Significant Contribution Award: "Significant Contribution Award- Mumbai Chapter", CSI Annual Convention2015
  - ISCA- Sectional Member- ISCA during-2015-16.
  - CSI- Member, Management Committee for the term 2016-2017,2017-18.

**Nomination on different Committees of University:**

- Member of Technology Committee, Unfair Means Committee, TLC, Member of Staff Selection Committee, Purchase Committee, Centralize Document Verification for BCA Admissions, LIC, Vigilance Squad etc.

**Additional Responsibilities:** Ad-hoc Dean for Faculty of Science and Technology (Aug-2016 - Sep-2019)

**Coordinated for following programs in the University**

- Coordinator at SNDT Women's University for online EDUSAT Programmes offered by IIRSDeharadun for short term certificate courses in Remote Sensing, GIS & GPS Technology
- DOE AAC Examination Co-Coordinator, Superintendent of Examination at SNDT WU Centre[2012-19].

**Publications:** Int. Journal Paper-36, International and National Conference Proceedings-28, Books-5.

### **G.M. Magar- Publications:**

#### **List of Publications International and National Journals**

1. Leena Chourey, Ganesh Magar, "Automatic Extraction of Communicative Signals from Online Flowchart". Design Engineering (Toronto), ISSN- 0011-9342, Vol-2021, Issue-08, pp 2255-2268. (SCOPUS Indexed)
2. S. R. Maurya and G. M. Magar, "Morphological Improvements for Photogrammetry- based 3D Reconstruction of Historic Monuments," International Journal of Information Technology and Electrical Engineering, vol. 10, no. 2, pp. 46-53, April. 2021.[ISSN: **2306-708X**].
3. Ujwala Sav, Ganesh Magar, "Insider Threat Risk Detection Model", Utkal Historical Research Journal, Vol.-34(III), 2021.[ISSN: **0976-2132**] (UGC Care listed)
4. Ujwala Sav, Ganesh Magar, "Data Preprocessing for Anomaly Detection", Mattingley Publishing Co., Inc. TEST Engineering and Management, Volume 83 Page Number: 2188 - 2195 March - April 2020 ISSN: 0193-4120. (Scopus)
5. Sulbha Powar and Dr. Ganesh Magar, "Efficient Geo-Textual Hybrid Indexing Techniques for Moving Objects and Queries", International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-6, March 2020. [ISSN: **2277-3878**]
6. Ujwala Sav, Ganesh Magar, "Generating Data for Insider Threat Detection for Cyber Security", Think India multidisciplinary Journal, Vol.22(39) Page No. 65-69, Feb-2020 [ISSN **0971-1260**] [UGC CARE Listed- Open Access].
7. A. Jawale and G. Magar, "Investigating Feature Selection Techniques for Dataset Reduction," Science and Engineering Journal, vol. 24, no. 9, p. 5, 2020. [ISSN **0103-944X**]
8. Ms. Anupama Jawale Dr. Ganesh Magar, "Study of Feature Extraction Techniques for Sensor Data Classification", International Journal of Information Communication Technologies and Human Development (IJICTHD) Vol 13, Issue 1, Article 3, IGI Global [UGC Care Listed in Group I]
9. Anupama Jawale, Ganesh Magar, "Survey of Clustering Methods for Large Scale Dataset", International Journal of Computer Sciences and Engineering (IJCSE), Vol.-7, Issue-5, Page no. 1338-1344, May 2019. [E-ISSN: **2347-2693**] [Open Access]
10. Jawale Anupama, Magar, Ganesh, "Comparison of Image Classification Techniques: Binary and Multiclass using Convolutional Neural Network and Support Vector Machines", INFOCOMP: Journal of Computer Science, Vol. 18 Issue 2, Page No. 28-35, Dec2019.[ISSN-**1982-3363**].
11. Neha AjitKushe, G.M. Magar, "Enhancing the Performance of Nearest Neighbor Avalanche Forecasting Model using Differential Evolution", Disaster Advances. Volume 12, Issue 11, 1-6, November 2019, [E-ISSN: **2278-4543**, Print ISSN:**0974-262X**] [Scopus]
12. Neha AjitKushe, G.M. Magar, "Measuring the Impact of Statistical Techniques for Computation of Weighting Factors in Avalanche Forecasting Model", International Journal of Recent Technology and Engineering (IJRTE) Volume-8 Issue-4, November 2019, 886-891, [E-ISSN- **2277-3878**][Scopus]
13. Neha AjitKushe, G.M. Magar, "Avalanche forecasting model based on Independent Component Analysis", World Research Journal Groups Disaster Advances Vol. 12 (7), pp.64-68, July-2019. [E-ISSN **2278-4543**; PRINT-ISSN **0974-262X**] [OpenAccess]
14. Neha AjitKushe, G.M. Magar, "Impact of Weighting Factor on Cosine Similarity Based Avalanche Forecasting Model", International Journal of Information Technology and Computer Science, Volume 11, Issue 4, pp.54-60, 2019. DOI: 10.5815/ijitcs.2019.04.06, [ISSN: **2074-9007 (Print)**, ISSN: **2074-9015**][OpenAccess]
15. Swati R. Maurya, Dr. Ganesh M. Magar, "Reconstructing 3D Triangulated Surfaces Using Normal Consistency and Local Extremes for Large Geospatial Surfaces", Journal of Analysis and Computation (JAC), Volume XIII, Issue III, March, 2019. [ISSN **0973-2861**] [PeerReviewed]
16. Ujwala Sav, G.M. Magar, "Cyber security policies for user's anomalous behavior at workplace", International Journal of Advance and Innovative Research, Vol 6, Issue 1(XI), 337-342, Jan-March, 2019. [ISSN**2394-7780**].
17. Ujwala Sav, G.M. Magar, "Insider Threat Detection Methods: A Survey", International Journal of Computer Science and Engineering, Vol 7, Issue-4, pp-915-923, April-2019. [ISSN**2347-2693**].
18. Neha AjitKushe, G.M. Magar, "Study and analysis of weather parameters during avalanche for Bahang region, Manali (Himachal Pradesh)", The Journal of Indian Geophysical Union, Volume 22, Issue 4, July 2018, 450- 454, [ISSN: **0257-7968 (Clarivate Analytics)**, ISSN: **0971-9709**][NISCAIR]
19. Neha AjitKushe, G.M. Magar, "Adapting cosine similarity for avalanche forecasting using NN model", International Journal of Research in Electronics and Computer Engineering, Volume 6, Issue 2, April-June 2018, 1006-1010, ISSN: 2393-9028 (PRINT). [ISSN:**2348-2281**]
20. Neha AjitKushe, G.M. Magar, "An Alternative Approach with Nearest Neighbor Classifier for Forecasting Snow Avalanche", International Journal of Computer Engineering and Applications, Volume XII, Issue II, Feb. 18, 79-85. [ISSN **2321-3469**]

21. Swati R Maurya, Ganesh M Magar, "Impact of Gamma Correction on Quality of Geospatial 3D Reconstructions through Photogrammetry", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), Volume 3, Issue-1, pp-1609-1616, Feb 2018. [ISSN: 2456-3307]
22. S.R. Maurya, G.M. Magar, "Assessing the Impact of Color Adjustments on Photogrammetry-Based 3D Surface Reconstruction", International Journal of Computer Sciences and Engineering, Vol.6, Issue.2, Feb 2018. [ISSN: 2347-2693]
23. SulbhaPowar and Dr. Ganesh Magar, "Spatial Keyword Query Processing: R\*-If Tree Implementation", International Journal of Computer Engineering and Applications, Volume XII, Issue II, Feb. 18. [ISSN 2321- 3469]
24. S.R. Maurya, G.M. Magar, "3D Reconstruction of Hills of Sanjay Gandhi National Park Region from Digital Raster Elevation Data", International Journal of Computer Engineering and Applications, Volume 11, Issue 12, pp-243-252, Dec2017. [ISSN2321-3469]
25. Neha Kushe, G.M. Magar, "Nearest neighbour classification model in avalanche prediction- a review", International Research Journal of Earth Sciences, Vol.- 5, Issue 9, October 2017. [E-ISSN: 2321 –2527]
26. Leena Chourey, Ganesh Magar "Review of Technology to Access Infographics for Visually Impaired", International Journal of Engineering Research and Applications (IJERA), Vol. 7 - Issue 9, September - 2017. [ISSN: 2248-9622]
27. SulbhaPowar , Dr. Ganesh Magar , "A Review on Hybrid Geotextual Indexing Techniques", of International Journal of Advanced Research in Computer, Volume 8 Issue 7 July-August 2017 .[ISSN:0976-5697]
28. Rahul R. Sagar, Ganesh M. Magar, Karbhari V. Kale, "Geometric Correction Impact on Geo- spatial Analysis of Urban Heat", International Journal of Applied Engineering Research, August 2017.[ISSN:0973-4562]
29. Ganesh M. Magar, Rahul R. Sagar, "Indicator Based Modeling of Urban Space Regeneration Using Geospatial Technology", Journal of Spatial Information Science, May 2017. [ISSN: 1948-660X]
30. Ganesh M. Magar, Rahul R. Sagar, Karbhari V. Kale, "Environmental Approach: Pollution variations in Urban Area Using geospatial technique", IEEE Geosciences and remote sensing letter, Feb 2017. [ISSN: 1545:598X]
31. Swati R Maurya, Ganesh M Magar, "Segmentation and Visualization of Airborne Sparse Forest LiDAR Data using Region Growing Approach", International Journal of Computer Applications 156(5):16-22, December 2016. [ISSN: 0975 – 8887] [UGCListed, Open Access, Peer Reviewed].
32. Premal B. Nirpal, Ganesh M. Magar, "Significant Data Hiding through Discrete Wavelet Transformation Approach", Int. J. Advanced Networking and Applications Vol-7 Issue: 01 Pages: 2606-2610, Jun 2015. [ISSN: 0975-0290]
33. Magar G.M., Gornale S.S. and Kale K.V., "Multiwavelet transformation for SAR image coding: performance evaluation for lossy compression", Journal of Signal and Image Processing, Vol-2, Issue 1, pp-26-35, 2011. [ISSN: 0976-8882 & E-ISSN: [0976-8890]
34. Ganesh Magar, Vikas Humbe, K.V. Kale, "Wavelet and multiwavelet-based SAR image compression", Journal of science and Technology, Veer Narmad South Gujrat University, Surat, Vol-2, Issue-1, PP-39-51, Jan-Jun 2010. [ISSN:0975-5446]
35. Ganesh Magar, Vikas Humbe, K.V. Kale, "Exploiting multiwavelet for lossy compression in SAR imaging", International Journal of computer application and Business intelligence, Vol-1, No.-4, PP-23-29, Oct- 2010. [ISSN:0975-945X]
36. S. S. Gornale, Vikas Humbe, Ganesh Magar, Ramesh Manza, K.V. Kale, "Application of Multi-Resolution Techniques for Medical Image Compression", International Journal of Imaging Science and Engineering, Vol- 3 No. 4, Oct 2009. [ISSN:1934-9955]

#### **List of Publications: International and National Conference Proceedings**

1. Leena C., Ganesh M., "Exploiting communicative signals to describe Flow diagram," International Conference on Artificial Intelligence & Machine Learning (ICAIML), September 4-5, 2020, STANI Memorial College of Engineering & Technology, Jaipur, India
2. Leena Chourey, Ganesh Magar "Generating Graph from 2D flowchart using Region-Based Segmentation", IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2020), MANIT Bhopal, India 22-23 February 2020.
3. Ujwala Madhav Sav, Ganesh Magar, "Data Processing for Anomaly Detection", International Conference on Pervasive Computing-2020 (ICPC-2020), organized by Dep. Of Electronics and Telecommunication, Computer Engineering and Information Technology, Sinhgad College of Engineering, Pune, Savitribai Phule Pune University, During 13-14th February 2020.
4. Ujwala Madhav Sav, Ganesh Magar, "Analysis of Insider Threats Detection Based on Users Anomalous



- Behavior Using Machine Learning and Deep Learning”, CyProbe – A National Conference on Advanced Research in Computer Science and Information Technology, at PTVA's Mulund College of Commerce, Mumbai, 18th January 2020[Best PaperAward].
5. Anupama Jawale, Ganesh Magar, “A Survey of Geo-Tagged Image Metadata Retrieval and Visualization Techniques Using R”, CyProbe – A National Conference on Advanced Research in Computer Science and Information Technology, PTVA's Mulund College of Commerce, Mumbai, 18th January2020.
  6. S. R. Maurya and G. M. Magar,” Evaluating Visual Performance of Multi-object Scene Reconstruction using Triangulation from Airborne Geo-spatial Point Clouds” 4th International Conference on Communication and Electronics Systems (ICCES 2019) Conference 17- 18th July 2019, PPG Institute of Technology, Coimbatore, India.
  7. Neha AjitKushe, G.M. Magar, “Snow Avalanche Warning System for Bahang Region in Himachal Pradesh”, IEEE - International Conference on Recent Trends in Computational Engineering and Technologies (ICTRCET'18), Bangalore, India, May 17-18,2018.
  8. SulbhaPowar, G.M. Magar, “Efficient Geo-Textual Query Processing Using Grid-Inverted File Hybrid Index and Conceptual Partitioning”, IEEE - International Conference on Recent Trends in Computational Engineering and Technologies (ICTRCET'18), May 17-18, 2018, Bangalore,India.
  9. S.R. Maurya, G.M. Magar, "Performance of Greedy Triangulation Algorithm on Reconstruction of Coastal Dune Surface", IEEE's sponsored, 3rd International Conference For Convergence In Technology (I2CT) ,Pune – 7-8 April 2018.
  10. Neha AjitKushe, G.M. Magar, " Comparative Analysis of Euclidean Distance and Cosine Similarity forNearest Neighbour Implementation of Avalanche Forecasting Model “, IEEE- 2018 International Conference on Informatics Computing in Engineering Systems (ICICES), Madras Section, at S.A. Engineering College PoonamalleeAvadi Main Road, Thiruverkadu, Chennai, India, 21-22 Mar2018
  11. SulbhaPowar, G.M. Magar, "Framework for Disaster Management System Using Geo-Textual Indexing techniques and Web Services “, IEEE- 2018 International Conference on Informatics Computing in Engineering Systems (ICICES), Madras Section, at S.A. Engineering College PoonamalleeAvadi Main Road, Thiruverkadu, Chennai, India, 21-22 Mar2018
  12. Rahul R. Sagar, Ganesh M. Magar, Karbhari V. Kale, Suresh C. Mehrotra, “Urban Heat Analysis for urban regeneration using geospatial technology”, International Conference on Recent Trends in Image Processing and Pattern Recognition 2017, Dr. B.A.M. University Aurangabd(MS), 16-17 Feb2017.
  13. Rahul Sagar, G.M. Magar, “Analysis of Employment Density for Sustainable Urban Regeneration Using Geo- Spatial, “2nd International Conference on Cognitive Knowledge Engineering (ICKE-2016), Dr. B.A.M. University Aurangabd(MS),Dec 21-23,2016.
  14. P. Nirpal, G.M. Magar, Vikas T. Humbe, “Agriculture resource management using remote sensing and GIS in Maharashtra Region”, 103rd Indian Science Congress Association Conference, University of Mysore, Mysore, Jan 3 -7,2016.
  15. G.M. Magar, Vikas T. Humbe, Premal Nirpal “Web Based Services for Ubiquitous GIS Computing” 101thIndian Science Congress Association Conference, University of Jammu, Jammu, Feb 3 -7,2014.
  16. Shriram D. Raut, Ganesh M. Magar, Vikas T. Humbe, “Palm vein recognition system based on LU Decomposition”, IEEE's International Conference on Convergence of Technology – 2014. (I2CT-2014), Pune, Apr 6-8 , 2014. **[ISBN: 978-1-4799-3759-2/14.]**
  17. Ganesh Magar, Shivanand S. Gornale, K.V. Kale, “Multi-resolution Analysis (MRA) System for De-noising of Synthetic Aperture Radar (SAR) Image”, International conference on “Computer, Communication, Control and Information Technology (C3IT-2009)”, Academy of Technology, Hooghly, West Bengal, Vol- 1, pp-357-363, Feb 6-7, 2009. **[ISBN – 023-063-759-0]**
  18. Ganesh Magar, VikasHumbe, Ramesh Manza, K.V. Kale,“Comparative analysis of Multi-resolution Analysis (MRA) techniques for Multiplicative speckle noise reduction of Synthetic Aperture Radar (SAR) Image”, Proceeding of international conference on “Managing Next Generation Software Applications - 2008”, Karunya University , Karunya Nagar, Coimbatore – 641 114, Volume-1, pp-1317-1322, Dec 5-6,2008. **[ ISBN- 978-81-907870-0-0]**
  19. Shivanand S. Gornale, Vikas Humbe, Ganesh Magar, K.V. Kale “Synthetic Aperture Radar (SAR) Image Compression through wavelet (W), Wavelet Packet.” Proceeding of IEEE International Conference on Signal and Image Processing (ICSIP)-2006, Volume-1, pp-103-106, organized by KLE Society's B.V. Bhoomarddi College of Engineering and Technology Vidyanagar, Hubli-580 031, Karnatka, India, Dec 7 - 9, 2006. **[ISBN- 10:0230-63003-0,ISBN-13:978-0230-63003-1]**
  20. Vikas Humbe, Shivanand S. Gornale, Ganesh Magar, K.V. Kale “Fingerprint Image De-noising through Decimated and Un-Decimated Wavelet Transforms (WT)”, Proceeding of international conference on “Future Computer and Communication (ICFCC 2009)”, Kuala Lumpur, Malaysia, pp-500-504, Apr 3-5, 2009. **[ISBN: 978-0-7695-3591-3]**

21. Shivanand S. Gornale, Ganesh Magar, Vikas Humbe, Ramesh Manza, K.V. Kale, "MRI Image compression through Homogeneous wavelet filters banks: A multiwavelet Approach", Proceeding of International Conference on Advances in Computer Vision and Information Technology (ACVIT-07), pp-1065-1075, Organized by Dept. of CS & IT, , Dr. B.A.M. University Aurangabad (MS), Nov 28-30, 2007. [ISBN-978-81-8966-74-7]
22. Ganesh Magar, Shivanand S. Gornale, Vikas Humbe, Ramesh Manza, K.V. Kale, "Speckle noise reduction of Synthetic Aperture Radar (SAR) Image using multiresolution technique", Proceeding of International Conference on Advances in Computer Vision and Information Technology (ACVIT-07), pp-1400- 1405, Organized by Dept. of CS & IT, Dr. B.A.M. University Aurangabad (MS), Nov 28-30, 2007. [ISBN-978-81- 8966-74-7]
23. Ganesh Magar, Shivanand S. Gornale, Ramesh Manza, K.V. Kale, "Application of Multi-resolution Technique for SAR Image Compression", Proceeding of UGC Sponsored National Conference on Recent Trends in Information Technology (RTIT-2009)", PP. 107-117, Mandya, Karnataka, Sep 4-5, 2009. [ISBN:978-93- 80026-82-4]
24. Ganesh Magar, K.V. Kale, "Application of Multiwavelet Techniques in SAR Imaging: A case study of speckle noise reduction", Proceeding of National Conference on Recent Trends in Computer Application (NCRTCA- 2010), Department of Management Science, Dr. B.A.M. University Aurangabad (MS), PP-155-158, Feb 17 – 18, 2010. [ISBN-978-81-906858-4-9].
25. Ganesh Magar, K.V. Kale, "Lossy Compression of SAR Images in Multiwavelet Domain", Proceedings of 98th Indian Science Congress, Section IV, Engineering Sciences, pp 123-124, SRM University, Kattankulathur, Tamilnadu, Chennai, Jan 3- 7, 2011.
26. Ganesh Magar, Shivanand S. Gornale, Vikas Humbe, Ramesh Manza, K.V. Kale, "Comparative study of Multi- resolution Analysis (MRA) techniques for Multiplicative speckle noise reduction of Synthetic Aperture Radar (SAR) Image", Proceeding of IEEE international conference on "Emerging Trends in Computing - 2009", Kamaraj College of Engineering & Technology, Virudhunagar, Tamil Nadu, Vol-1, pp-219-224, Jan 8 -10, 2009.
27. Ganesh Magar, Shivanand S. Gornale, Vikas Humbe, Ramesh Manza, K.V. Kale, "Multi-resolution Analysis (MRA) filtering approach for reduction of Multiplicative speckle noise of Synthetic Aperture Radar (SAR) Image", Proceeding of IEEE Sponsored international conference on "Advance computing & communication Technologies for High Performance Applications" organized by Federal Institute of Science and Technology [FISAT] Anagamaly, cochin, kerla, India., Volume-1, pp-234-238, Sep 24 - 26, 2008.
28. Ganesh Magar, Shivanand S. Gornale, Ramesh Manza, K.V. Kale, "Denoising Synthetic Aperture Radar (SAR) Image: A Multiresolution Analysis (MRA) Approach", Proceeding of IEEE International Conference INDICON 2007, organized by Indian Council and 16th Annual Symposium of IEEE Bangalore Section, Bangalore, Karnataka, India, Sep 6-8, 2007.

#### **List of Publications: Books**

1. G. M. Magar, S. R. Maurya, "Learn to Master C", Star EduSolutions India 2018. [ISBN978-81-93404-57-7]
2. R. K. Maurya, S. R. Maurya, G. M. Magar, "Learn to Master C++", Star EduSolutions India, 2018. [ISBN 978-81-93404-58-4]
3. M.T.Savaliya, R.K.Maurya, G.M.Magar, "Programming through Python", Star EduSolutions India, 2018. [ ISBN: 978-93-86765-42-0]
4. R.K.Maurya, G.M.Magar, S.R.Maurya, "Graph Theory and Its Applications", John Wiley India, 2016. [ ISBN: 978-81-26560-62-2]
5. R. K. Maurya, G. M. Magar, "System Programming", Wiley-Dreamtech, 2015. [ISBN:978-93-51198-16-1]