

Prof. Satish Ramesh Kolhe

1. Full Name : Prof. Satish Ramesh Kolhe



2. Contact Information: Director,
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3. Education Qualification:

B.E. (Computer Engineering, Amravati University, Amravati), 1991
M.Tech. (Engineering Systems, Dayalbagh Educational Institute, Agra), 1994
Ph.D. (Computer Engineering, North Maharashtra University, Jalgaon), 2007

4. Teaching Experience : 26 Year

5. Area of Research/Expertise: Pattern Recognition, Image Processing
Intelligent Systems
Web Mining
Natural Language Processing

6. Awards/Fellowships/prizes received:

- **Best Paper Award** (2014) at IEEE International Conference on Information Systems and Computer Networks, 1–2 March 2014 at GLA University, Mathura.
- **Best Teacher Award** (2012) among University Faculty, North Maharashtra University Jalgaon.
- **Best Paper Prize** (Second), 97th Indian Science Congress, Tiruantapuram, January 3-7, 2009.

- **Best Paper Presentation Award**, CVR Memorial Seminar-2007 conducted at North Maharashtra University, Jalgaon, Feb. 28, 2007.
- **Best Paper Presentation Award**, CVR Memorial Seminar-2006 conducted at North Maharashtra University, Jalgaon, Feb. 28, 2006.
- **Best Paper Presentation Award**, CVR Memorial Seminar-2005 conducted at North Maharashtra University, Jalgaon, Feb. 28, 2005.

7. Number of Post Doc Students (with name): Nil.

8. Number of Ph.D. Students Completed (with name): 12 (Completed) + 01 (Submitted)

Sr. No.	Name of Student	Topic of Research	Status
1	Aba M. Patil (Electronics Engineering)	Studies on Algorithms for Face Recognition	Completed
2	Jaydevan R. (Computer Engineering)	Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handprinted Information (English, Hindi, Marathi) Present on Indian Bank Cheques.	Completed
3	P. S. Patil (Electronics Engineering)	Iris Recognition System	Completed
4	P. M. Mahajan (Electronics Engineering)	Analysis of Natural and Synthesis Texture Images Using Multichannel and Multi-resolution Approach	Completed
5	Manoj P. Patil (Computer Science)	Using Machine Learning in Automatic Image Annotation for Content Management	Completed
6	Wagh Sharmila K. (Computer Engineering)	Effective Intrusion Detection System Using Machine Learning Technique(s)	Completed

7	Ajay U. Surwade (Computer Science)	Development of Framework for Effective Spam Management System	Completed
8	Kishor P. Wagh (Computer Engineering)	On Use of Semantic and Ontological Information to Improve Link Mining	Completed
9	K. P. Adhiya (Computer Engineering)	Automatic Learning of User's Interest in Personalizing Web Search Without User's Explicit Feedback.	Completed
10	Snehalata B. Shirude (Computer Science)	Development of Recommender System Using Intelligent Agents for Efficient Use of Libraries	Completed
11	Manisha S. Deshmukh (Computer Science)	Offline Handwritten British Age Document Recognition System	Completed
12	Parag A. Tamhankar (Computer Science)	Creation of a Framework for Recognition and Transliteration of Offline Handwritten Marathi Documents Written in Modi Script into Devnagari Script	Completed
13	Umesh B. Pawar (Computer Engineering)	Controller Area Network (Can) For Wire Harness Automotive Application	Submitted

9. Number of Ph.D. students ongoing (with name).

Sr. No.	Name of Student	Topic of Research	Date of Registration
1	Rupali Sahebrao Patil (Computer Science)	Sentiment Analysis of Political Tweets in Marathi Language.	09-02-2015
2	Megha Borole (Computer Engineering)	Image Forensics: Image Recapture Detection with Source Camera Identification	31-08-2015
3	Sudarshan Subhashrao Sonawane (Computer Engineering)	Explorative Sentiment Analysis to understand the opinion of Twitter Trends	21-05-2018
4	Bhagyashri Pramod Bhangale (Computer Science)	Automatic Text Summarization of Marathi e-Newspaper Articles"	21-05-2018
5	Pravin Keshav Patil (Computer Engineering)	Automatic Sarcasm Detection for Marathi Tweets	21-05-2018
6	Priyanshi Jagdeep Borase (Computer Engineering)	Rumor Detection in Big Data generated by Social Media	21-05-2018

10. Number of M. Phil. Students completed (with name): 02

- Ms. Ranjana S. Zinjore
- Ms. Manisha S. Deshmukh

11. Number of M. Phil. Students on going (with name): Nil.

12. Number of Books Written:

Book Chapters (International): 09

- 1) Tamhankar P. A., Masalkar K.D., **Kolhe S.R.** (2021) "Character Recognition of Offline Handwritten Marathi Documents written in MODI Script using Deep Learning Convolutional Neural Network Model", Communications in Computer and Information Science (CCIS), RTIP2R 2020, CCIS 1380, pp. 478-487, 2021. **Springer**, Singapore, (Scopus, SCImago, DBLP, EI-Compendex, H Index-40), DOI https://doi.org/10.1007/978-981-16-0507-9_40
- 2) Sonawane S.S., **Kolhe S.R.** (2021) A New Method for Defining Scale to Estimate the Aspects Oriented Sentiment Polarity of the Tweets. In: Santosh K.C., Gawali B. (eds) Recent Trends in Image Processing and Pattern Recognition. RTIP2R 2020. Communications in Computer and Information Science, vol 1380. pp 318-333, Print ISBN 978-981-16-0506-2, **Springer**, Singapore. (Scopus, SCImago, DBLP, EI-Compendex, H Index-40) , Online ISBN978-981-16-0507-9, DOI: https://doi.org/10.1007/978-981-16-0507-9_28.
- 3) Manisha S. Deshmukh, **Satish R. Kolhe**“ (2021), A Modified Approach for the Segmentation of Unconstrained Cursive Modi Touching Characters Cluster”, International Conference on Recent Trends in Image Processing and Pattern Recognition, RTIP2R 2020. Communications in Computer and Information Science (CICS), vol 1380. pp 431-444, Print ISBN 978-981-16-0506-2, **Springer**, Singapore. Springer, (Scopus, SCImago, DBLP, EI-Compendex, H Index-40) , Online ISBN 978-981-16-0507-9 (CCIS, Springer) January 03-04, 2020 (Scopus), DOI https://doi.org/10.1007/978-981-16-0507-9_36
- 4) Rupali S. Patil, **Satish R. Kolhe**, Resource Creation for Sentiment Analysis of Under-Resourced Language: Marathi, International Conference on Recent Trends in Image Processing and Pattern Recognition, RTIP2R 2020. Communications in Computer and Information Science (CICS), vol 1380. pp 445-457, Print ISBN 978-981-16-0506-2, **Springer**, Singapore (Scopus, SCImago, DBLP, EI-Compendex, H Index-40), Online ISBN 978-981-16-0507-9, DOI https://doi.org/10.1007/978-981-16-0507-9_38
- 5) Shirude Snehalata B., and **Satish R. Kolhe**, "Improved Hybrid Approach of Filtering Using Classified Library Resources in Recommender System." Intelligent Computing Paradigm: Recent Trends. **Springer**, Singapore, 2020. 1-10, Print ISBN978-981-13-7333-6, Online ISBN978-981-13-7334-3, DOI <https://doi.org/10.1007/978-981-13-7334-3>
- 6) Shirude S. B., **Kolhe S. R.** (2018), "Classification of Library Resources in Recommender System Using Machine Learning Techniques", Published in Communications in Computer and Information Science, CCIS Series Editors: Barbosa, S.D.J., Filipe, J., Kottenko, I., Sivalingam, K.M., Washio, T., Yuan, J., Zhou, L. ISSN: 1865-0929 Volume 836 added in the title Social Transformation – Digital Way, **Springer**, Page Nos. 661-673, Available online at <https://www.springer.com/series/7899>
- 7) Shirude Snehalata B., **Kolhe Satish R** (2018)., Agent Based Architecture for Developing Recommender System in Libraries, Book Chapter Volume-II of "Knowledge Computing and its Applications", published by **SPRINGER NATURE**, Singapore (Scopus) (Book Chapter).
- 8) Sonawane S.S., **Kolhe S.R.** (2018) Term Co-occurrence Based Feature Selection for Sentiment Classification. In: Bhattacharyya P., Sastry H., Marriboyina V., Sharma R. (eds) Smart and Innovative Trends in Next Generation Computing Technologies. NGCT 2017. Communications in Computer and Information Science, vol 827. **Springer**, Singapore. https://doi.org/10.1007/978-981-10-8657-1_31, Print ISBN 978-981-10-8656-4, Online ISBN 978-981-10-8657-1.
- 9) Snehalata B. Shirude and **Satish R. Kolhe**, "Machine Learning Using K-Nearest Neighbor for Library Resources Classification in Agent-Based Library Recommender System." In Advances in Computing

13. Number of Patents: 01 (Published).

Title of the patent	Date of filing	Date of publication	Date of grant	Commercial importance/ applications, if any
Secure Anomaly Based Efficient Real Time Distibited Intrusion Detection System (SABER-DIDS) Application No. 201621016976	17-05-2016	18-07-2016	-	Development of IDS, Firewalls.

14. Number of research papers published:

Publication Type	#Papers
Book Chapters (International)	9
International Journals	50
National Journals	9
International Conference Proceedings	37
National Conference Proceedings	37
Presented/Abstract	25

Journals : 59

International Journals: 50

- 1) Megha Borole, **Satish Kolhe**, "A Feature-Based Approach for Digital Camera Identification using Photo-Response Non-Uniformity Noise", International Journal of Computational Vision and Robotics, ISSN online 1752-914X, ISSN print 1752-9131, Inderscience Publishers, 2021, **Scopus (Elsevier) (Impact Factor 1.108)**. DOI: 10.1504/IJCVR.2021.10035505
- 2) Tamhankar, Parag A., Krishnat D. Masalkar., **Kolhe S.R.** "A Novel Approach for Character Segmentation of Offline Handwritten Marathi Documents written in MODI Script." in ELSEVIER Procedia Computer Science Volume 171, 2020, Pages 179-187. ISSN:1877-0509 (**Scopus**), **Impact Factor: 1.26**, <https://doi.org/10.1016/j.procs.2020.04.019>.
- 3) Sudarshan S. Sonawane, **Satish R. Kolhe**, "TCSD: Term Co-occurrence Based Sarcasm Detection from Twitter Trends", Procedia Computer Science Journal, Elsevier, vol.167, pp.830-839, 2020, [//doi.org/10.1016/j.procs.2020.03.422](https://doi.org/10.1016/j.procs.2020.03.422), ISSN:1877-0509 (**Impact Factor: 1.48**) (**Scopus, H Index 47**).

- 4) Umesh B. Pawar, Sunil G. Bhirud, **Satish R. Kolhe**, Implementation of Basic and Fuzzy CAN Communication in Context with Automotive Application(s), International Journal of Control and Automation, Elsevier, Vol. 12, No 5, ISSN 2005-4297, pp 665-678, 2019 (**Scopus, Impact Factor 0.28**)
- 5) Manisha S. Deshmukh , Manoj P. Patil , **Satish R. Kolhe** (2018), A Hybrid Text Line Segmentation Approach for the Ancient Handwritten Unconstrained Freestyle Modi Script Documents, The Imaging Science Journal, Taylor & Francis, Print ISSN: 1368-2199 Online ISSN: 1743-131X (**SCI/Scopus/web of Science, Impact Factor 0.451**).
- 6) Megha Borole, **Satish Kolhe**, An Efficient Camera Identification Technique using Krawtchouk Moment Invariants, Journal of Mechanics of Continua and Mathematical Sciences, Vol 14, PP 53-68, 2019. ISSN: 0973-8975(Print), ISSN:2454-7190 (Online), (**ESCI, Web of Science**).
<https://doi.org/10.26782/jmcms.2019.02.00004>.
- 7) Sudarshan S. Sonawane, **Satish R. Kolhe**, Feature Optimization in Sentiment Analysis by Term Co-occurrence Fitness Evolution (TCFE), International Journal of Information Technology and Web Engineering (IJITWE), Vol 14, Issue 3, ISSN: 1554-1045| EISSN: 1554-1053| DOI: 10.4018/IJITWE.2019070102 (**SCI/Scopus/web of Science**).
- 8) Shirude S. B., **Kolhe S. R.**, “Improved Hybrid Approach of Filtering using Classified Library Resources in Recommender System”, Intelligent Computing Paradigms: Recent Trends, Studies in Computational Intelligence Series, PP 1-10, Springer ISSN 1860-949X (**Springer**)
- 9) Shirude Snehalata B., **Kolhe Satish R.**, “A Conceptual Framework of Expert Finding System for Academic Events and Committees”, International Journal of Computer Sciences and Engineering, ISSN: 2347-2693, February 2019. (UGC Listed)
- 10) Umesh Pawar, Sunil Bhirud, **Satish Kolhe**, Controller Area Network for Wire Harness In Automotive Application, International Journal of Management Technology and Engineering, Volume IX, Issue I, 2019. ISSN: 2249-7455, doi: 16.10089/IJMTE. (UGC Listed)
- 11) Manisha S. Deshmukh , Manoj P. Patil , **Satish R. Kolhe**, The Divide-And-Conquer Based Algorithm To Detect And Correct The Skew Angle In The Old Age Historical Handwritten Modi Lipi Documents, International Journal Of Computer Science And Applications, Vol. 14, No. 2, PP. 47 – 63, 2017, ISSN 0972-9038 (**Scopus**).
- 12) Parag A. Tamhankar, Krishnat D. Masalkar, **Satish R. Kolhe**, Segmentation of Overlapping, Skewed, And Touching Lines In Handwritten Modi Script Documents, International Journal Of Computer Science And Applications, Vol. 14, No. 2, PP. 47 – 63, 2017, ISSN 0972-9038 (**Scopus**).
- 13) Manisha S. Deshmukh , Manoj P. Patil , **Satish R. Kolhe**, A Hybrid Text Line Segmentation Approach for the Ancient Handwritten Unconstrained Freestyle Modi Script Documents, The Imaging Science Journal, Taylor & Francis, Print ISSN: 1368-2199 Online ISSN: 1743-131X (**Scopus/web of Science, Impact Factor 0.451**).
- 14) Parag Anil Tamhankar, **Satish Ramesh Kolhe**, Skew detection, skew correction, and shirorekha extraction of line segmented offline handwritten historical marathi documents written in modi script, International Journal Of Latest Trends In Engineering and Technology, Volume 10 Issue 1 -

- 15) Manisha S. Deshmukh, Manoj P. Patil and **Satish R. Kolhe**, "Page Border Detection and Removal of Highly Degraded and Old Handwritten Modi Documents Using Gray Value Analysis", International Journal of Pattern Recognition and Artificial Intelligence, World Scientific Publishing Company, (Scopus). (Under Review).
- 16) K. P. Wagh, **S. R. Kolhe**, Improving Web Link Mining Using Semantic Similarity Measurement, International Journal of Applied Engineering Research, 9(19), PP. 5063-5077, 2014, ISSN 0973-4562 (**SCOPUS Elsevier Indexed**).
- 17) M. P. Patil, **S. R. Kolhe**, "Automatic Image Annotation Using Decision Trees and Rough Sets", International Journal of Computer Science and Applications (IJCSA), Vol. 11, No. 2, PP. 38–49, 2014, ISSN: 0972-9038 (**SCOPUS Elsevier Indexed**) (**Citations 1**).
- 18) K. P. Adhiya, **S. R. Kolhe**, An efficient and novel approach for web Search personalization using web usage mining, Journal of Theoretical and Applied Information Technology, Vol.73 No.2, ISSN: 1992-8645, 1817-3195, 2015 2015 (**Scopus Elsevier, INSPEC Indexed**)
- 19) Ajay U Surwade, Manoj P Patil, **Satish R Kolhe**, An Empirical Analysis of Spam E-mail Classification using Machine Learning Techniques, International Journal of Applied Engineering Research, 9(18), PP. 5057-5074, 2014, ISSN 0973-4562 (**SCOPUS Elsevier Indexed**).
- 20) S. K. Wagh, **S. R. Kolhe**, "Effective Semi-Supervised Approach Towards Intrusion Detection System Using Machine Learning Techniques", International Journal of Electronic Security and Digital Forensics, ,ISSN: 1751-9128 (Online) 1751-911X (Print), 2015 (**Scopus, Elsevier Indexed, H-Index 5**)
- 21) Sharmila Kishor Wagh, Vinod K Pachghare, **Satish R Kolhe**, Survey on Intrusion Detection System using Machine Learning Techniques, International Journal of Computer Applications, Volume 78, Issue 16, 2013, ISSN 0975 – 8887, PP 30-37 (**Citations 6**).
- 22) P. M. Mahajan , S. R. Kolhe, P. M. Patil, Classification of Texture Images using Multiresolution Transform, International Journal of Advance Research in Computer and Communication Engineering, Volume 2, Issue 8, August 2013, ISSN (Print) : 2319-5940, ISSN (Online) : 2278-1021, PP 3171-3175 (**Citations 2**).
- 23) P. S. Patil, **S. R. Kolhe**, R. V. Patil, P. M. Patil, Performance Evaluation in Iris Recognition and CBIR System based on Phase Congruency, International Journal of Computer Applications (0975 – 888) Volume 47– No.14, June 2012 (**Citations 4**).
- 24) P. S. Patil, **S. R. Kolhe**, R. V. Patil, P. M. Patil, The Comparison of Iris Recognition using Principal Component Analysis, Log Gabor and Gabor Wavelets, International Journal of Computer Applications Volume 43– No.1, pp. 29-33, April 2012, ISSN:0975 – 8887 (**Citations 5**).
- 25) S. B. Shirude, **S. R. Kolhe**, "A library recommender system using cosine similarity measure and ontology beased measure", Advances in Computational research (ICV: 4.47), 2012, ISSN: 0975-3273, E-ISSN: 0975-9085 (**Citations 1**).
- 26) Ajay U. Surwade, S. R.Kolhe, "Performance of Naïve Bayesian filter on dataset Enron, LingSpam and on Personal messages". MIT International Journal of Computer Science & Information Technology, ISSN: 2230-7621, Volume 2, No. 3, January– August, 2012.
- 27) Manoj P. Patil and **Satish R. Kolhe**. "Automatic Shape Annotation Using Rough Sets and Decision Trees". IJEIR Volume 1, Issue 2, pp. 32 – 37, 2012. (ISSN : 2277 – 5668) (**Citations 2**).

- 28) Patil M.P. and **Kolhe S.R.**, "Automatic Image Categorization and Annotation using K-NN for Corel Dataset", *Advances in Computational Research*, Volume 4, Issue 1, pp.-108-112., 2012. (ISSN: 0975-3273 & E-ISSN: 0975-9085) (**Citations 1**).
- 29) V.R. Salkute, **S.R. Kolhe**, E-Government Milestones In Rural India : E-agro Aspects, *International Journal of Enterprise Computing and Business Systems*, Vol. 1 Issue 2 July 2012, ISSN (Online):2230--8849--8849 <http://www.ijecbs.com> (**Citations 1**)
- 30) Kishor P. Wagh, **Satish R. Kolhe**, Information Retrieval Based on Semantic Similarity Using Information Content, *International Journal of Computer Science Issues*, Vol. 8, Issue 4, No. 2, ISSN (Online): 1694-0814, PP. 364-370, July 2011. (**Citations 9, Impact Factor 0.242**)
- 31) P. M. Mahajan, **S. R. Kolhe**, P. M. Patil, Defect Detection in Texture using Statistical Approach and Principal Component Analysis, *International Journal of Advanced Research in Computer Science (IJARCS)*, Volume 2 No. 2, ISSN No. 0976-5697, PP. 454-458, 2011.
- 32) **S. R. Kolhe**, V.R. Salkute and B.V. Pawar, Use of Wireless Sensor Networks in Farm Irrigation, *Advances in Wireless and Mobile Communications (AWMC)*, Volume 4 Number 1, ISSN 0973-6972, PP. 19-23, 2011.
- 33) Patil P. S., **Satish R. Kolhe**, Pradeep M. Patil and Milind E Rane, Robust Person Identification System Using Iris, *International J. of Engg. Research & Indu. Appls. (IJERIA)*, ISSN 0974-1518, Vol.3, No. IV, pp. 165-177, 2010.
- 34) R, Jayadevan; **Kolhe, Satish**; Patil, Pradeep; Pal, Umapada, Automatic Processing of Handwritten Bank Cheque Images: A Survey, *International Journal of Document Analysis and Recognition (Springer) IJDAR*, ISSN: 1433-2833, July 2011. (**Citations 16 & Impact Factor 1.03**)
- 35) V.R. Salkute, **S.R. Kolhe**, Are Indians ready to adopt online supply chain management?, *Int. J. Electronic Marketing and Retailing*, Vol. 4, No. 1, PP. 100-116, 2011, ISSN Print: 1741-1025 (**Citations 1**)
- 36) Aba M. Patil and **Satish R. Kolhe**, Pradeep M. Patil and Milind E Rane, "Modified Fisher Face Approach for Robust Biometric Recognition System", *ICGST International Journal on Graphics, Vision and Image Processing (GVIP)*, Volume (10), Issue (IV), ISSN: Print 1687-398X, PP 9-15, 2010.
- 37) P. M. Mahajan, **S. R. Kolhe**, P. M. Patil, Segmentation of Textured Images using Orientation as a Feature Vector for Defect Detection in Wood and Textile Industries, *International Journal of Computational Intelligence and Information Security*, Vol. 1, No. 5, ISSN: 1837-7823, PP 46-53, 2010.
- 38) R, Jayadevan; **Kolhe, Satish**; Patil, Pradeep; Pal, Umapada, Offline Recognition of Devnagari Script: A Suvey, *IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews (IEEE-SMC)*, ISSN: 1094-6977, November 2010 (**Citations 61 & Impact Factor 2.171**).
- 39) **S. R. Kolhe**, B. V. Pawar, Learning Subset of Natural (Marathi) Language Grammar Using Neural Networks, *International Journal of Computer Engineering and Computer Applications (IJCECA)*, ISSN: 0974-4983, Vol. 2, Issue 3, PP 24-31, 2010.
- 40) K. P. Adhiya, **S. R. Kolhe**, Study of User Behavior by Data Preprocessing and Analyzing Web Logs, *International Journal of Computer Engineering*, ISSN: 0975-6116, Vol.2 No.2, PP 175-182, July-Dec 2010.
- 41) P. M. Mahajan, **Dr. S. R. Kolhe**, Dr. P. M. Patil, Defects Detection In Fabric Using Gabor Filters *International Journal of Emerging Technologies and Applications In Engineering, Technology and Sciences*, ISSN: 0974-3588, Vol. 3, Issue 2, PP. 165-167, 2010.

- 42) A. M. Patil, **S. R. Kolhe**, P. M. Patil, Face Recognition by Hotelling Transform, International Journal of Computer Applications in Engineering Technology and Sciences, ISSN: 0974-3596, Vol. 2: Issue 2, PP. 436-439, 2010.
- 43) M. P. Patil, **S. R. Kolhe**, Automatic Annotation Of 2D Shapes Using Hierarchical Classifier, International Journal of Emerging Technologies And Applications In Engineering, Technology and Sciences, ISSN: 0974-3588, Volume 3: Issue 2, PP. 403-408, 2010.
- 44) **Satish R. Kolhe**, Ranjana S. Zinzore, Clustering Iris Data Using Supervized and Unsupervised Learning, International Journal of Computer Science and Applications, Issue 2010, ISSN: 0974-0767, PP. 135-139, 2010 (**Citations 2**).
- 45) Kishor P. Wagh, **Satish R. Kolhe**, Semantic Similarity based on Information Content, International Journal of Computer Science and Applications, Issue 2010, ISSN: 0974-0767, PP. 82-85, 2010.
- 46) M. P. Patil, **S. R. Kolhe**, Automatic Tagging of 2D Shapes Using Feed-forward Neural Networks, International Journal of Computer Science and Applications, Issue 2010, ISSN: 0974-0767, PP. 135-139, 2010.
- 47) Patil A. M. **Kolhe S. R.** and Patil P. M., 2D Face Recognition Techniques: A Survey, International Journal of Machine Intelligence, Vol. 2, Issue 1, ISSN: 0975-2927, PP. 74-83, 2010. (**Citations 23**)
- 48) Jayadevan R, **Satish R Kolhe**, Pradeep M Patil , Dynamic Time Warping Based Static Hand Printed Signature Verification, Journal of Pattern Recognition Research (JPRR), Vol 4, No. 1, ISSN: 1558-884X, PP. 52-65, 2009 (**Citation Index 4.1, Citations 28**).
- 49) Kishor P Wagh, **Satish R. Kolhe**, Analysis of PageRank for Ranking World Wide Web, International Journal of Computational Research and Applications, Vol. 3, No. 2, ISSN: 0973-6794, PP. 184-189, 2009.
- 50) Mahajan P. M., **Kolhe S. R.**, Patil P. M., A Review of Automatic Fabric Defect Detection Techniques, Advances in Computational Research, Vol. 1, Issue 2, ISSN: 0975-3273, PP. 18-29, 2009. (**Citations 34**)

National Journals: 09

- 1) Kishor P. Wagh, **Satish R. Kolhe**, Evaluate Semantic Similarity of Words Using Semantic Distance, VNSGU Journal of Science and Technology Vol: 3, Issue 2, March 2012, ISSN: 0975-5446.
- 2) PATIL Manoj P, **KOLHE Satish R.** "Automatic Corel Image Categorization and Annotation using MLP and K-NN ", VNSGU Journal of Science and Technology, Volume (3) : Issue (2) pp.44-52, March 2012. (ISSN 0975-5446)
- 3) Manoj P. Patil, **Satish R.Kolhe**, "MPEG7 Shape Dataset Tagging using Feedforward Neural Networks", *VNSGU Journal of Science and Technology*, Volume (2) : Issue (1) pp.52-56, January– June 2010.
- 4) AJay U. Surwade, **Satish R.Kolhe**, "Challenge-Response System with White-listing and Black-listing to block Spam Emails", *VNSGU Journal of Science and Technology*, Volume (2) : Issue (1) pp.52-56, January– June 2010.
- 5) **S. R. Kolhe**, B. V. Pawar, Connectionist Models: From Forecasting to Grammar Learning, BRI's Journal of Advances in Science and Technology (JAST), Vol. 10, No. I & II, 2007.
- 6) **S. R. Kolhe**, B. V. Pawar, Nonlinear Time Series Prediction Using Neural Networks, Journal of

Computer Science (JCS), Vol. 2, No. 5, 2007.

- 7) **S. R. Kolhe**, B. V. Pawar, A Connectionist Approach for Learning Regular Grammars, Journal of Computer Society of India (JCSI), Vol. 2, No. 5, 2007.
- 8) **S. R. Kolhe**, B.V. Pawar, "Recurrent Neural Networks: A Tutorial", Published in "Vivek: A Journal of AI", C-DAC (NCST), Mumbai, ISSN 0970-1618, Vol. 14, 2001.
- 9) **S. R. Kolhe**, B.V. Pawar, "Alphanumeric Character Recognition Using Modified Back Propagation Neural Network", Library progress (International) ISSN. 0970 –1050, Vol. – 20 No. 1, 2000, P.P. 47-54.

Proceedings of International Conferences: 20

- 1) Megha Borole, **Satish Kolhe**, Statistical Feature Based Digital Camera Identification, 2nd IEEE International Conference on Advances in Computing, Communication Control and Networking– ICACCCN (ICAC3N-20), December 18-19, 2020. ISBN : 978-1-7281-8338-1.
- 2) Umesh Pawar, Sunil Bhirud, **Satish Kolhe**, Light scattering study on protocols and simulators used in automotive application(s), International Conference on Computing in Engineering and Technology (ICCET-2019), Organized by Deogiri Institute of Engineering and Management Studies, Aurangabad (MS), India, January 10 & 11, 2019, AISC Series of Springer (Indexed in ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and **SpringerLink**)
- 3) Umesh Pawar, Sunil Bhirud, **Satish Kolhe**, Controller Area Network For Wire Harness In Automotive Application, International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management 2019 (ICGTSTHCM 2019), Organized by organized by SSBT's College of Engineering and Technology, Bambhori, Jalgaon, India, January 18 – 20, 2019.
- 4) Shirude S. B., **Kolhe S. R.** (2018), "Classification of Library Resources in Recommender System Using Machine Learning Techniques", Published in Communications in Computer and Information Science, CCIS Series Editors: Barbosa, S.D.J., Filipe, J., Kotenko, I., Sivalingam, K.M., Washio, T., Yuan, J., Zhou, L. ISSN: 1865-0929 Volume 836 added in the title Social Transformation – Digital Way, **Springer**, Page Nos. 661-673, Available online at <https://www.springer.com/series/7899>
- 5) Umesh Pawar, Sunil Bhirud, **Satish Kolhe**, Light scattering study on protocols and simulators used in automotive application(s), International Conference on Computing in Engineering and Technology (ICCET-2019), Organized by Deogiri Institute of Engineering and Management Studies, Aurangabad (MS), India, January 10 & 11, 2019, AISC Series of **Springer (Indexed in ISI Proceedings, DBLP, SCOPUS, SpringerLink)**
- 6) S. Deshmukh, Manisha and R. **Kolhe, Satish**, "A Hybrid Character Segmentation Approach for Cursive Unconstrained Handwritten Historical Modi Script Documents" International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019), 26-28 February 2019. (**SSRN Elsevier Digital Library (Scopus)**), Available at SSRN <http://dx.doi.org/10.2139/ssrn.3356213> or SSRN: <https://ssrn.com/abstract=3356213>

- 7) Pawar, Umesh and G. Bhirud, Sunil, **R. Kolhe, Satish**, "Analyzing the Effect of Temperature and Humidity on AC Compressor Speed Using Fuzzy Control over CAN Communication" International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019), 26-28 February 2019. (SSRN Elsevier Digital Library) (Scopus), Available at SSRN: <https://ssrn.com/abstract=3356534> or <http://dx.doi.org/10.2139/ssrn.3356534>
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15. Research project completed (with name of funding agency, amount sanctioned and year of completion).

Name of Investigator	Title of Project	Duration	Amount Sanctioned	Funding Agency
Dr. Satish R. Kolhe (PI) Manish R. Joshi (Co-PI)	Learning Grammar Using Neural Networks	2001-2004	3,00,000/-	A.I.C.T.E., New Delhi
Dr. Satish R. Kolhe (PI)	Development of High Speed Data Acquisition System	1998-2000	12,000/-	U.G.C., New Delhi
Dr. Satish R. Kolhe (PI) Ajay U. Surwade (Co-PI)	Development of Framework for Spam Detection	2011-2014	2,26,000/-	U.G.C., New Delhi
Dr. Satish R. Kolhe (Deputy Co-ordinator)	SAP DRS-I	2011-2016	51, 50, 000/-	UGC
Hussain Dawoodi (PI) Dr. Satish R. Kolhe (Co-PI)	Impovement of perf in routing for WSN Using ACO	2013-2015	65,000/-	VCRMS, B.C.U.D., NMU, Jalgaon

16. Research project submitted (with name of funding agency, amount proposed and date of submission of project):

Name of Investigator (with PI ,Co-PI)	Title of Project	Duration	Amount Sanctioned	Funding Agency
Dr. Satish R. Kolhe Dr. M. R. Joshi	Development of Modi Document Translation System	32 year	19, 00, 000/-	राज्य मराठी विकास संस्था मुंबई

17. Memberships:

Sr. No.	Name of Institution/Society	Grade of Membership
1	Computer Society of India (CSI)	Life Member (Sr. Member)
2	Institute of Electronics and Telecommunication Engineers (IETE)	Fellow Life Member (FIETE)
3	Indian Science Congress Association (ISCA)	Life Member
4	Linguistic Society of India (LSI)	Life Member
5	Special Interest Group in Artificial Intelligence (SIGAI)	Life Member

18. Administrative Work experience:

- Working as a Director, School of Computer Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon since 2019.
- Working as a I/C Head, UGC Computer Center, School of Computer Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon since 2019.
- Worked as a Head, Department of Computer Applications, School of Computer Sciences, North Maharashtra University, Jalgaon since 2012-2019.
- Worked as a Chairman of MCA/M.Sc. (Computer Science)/M.Sc. (Information Technology) College and University Examinations from 2004 to 2009.
- Worked as a Coordinator of Academic Committee of School of Computer Sciences, North Maharashtra University, Jalgaon since 2009-2019.

19. Working experience with national bodies/national exposures:

- Working as a Member of Board of Studies (BOS) in subject Computer Science and Information Technology, K.B.C.N.M.U, Jalgaon since 2016.
- Working as a Invited Member of Board of Studies (BOS) in subject Computer Science and Information Technology, S. P. Pune University, Pune since 2018.
- Worked as a Invited Member of Board of Studies (BOS) in subject Computer Science and Information Technology, Shivaji University, Kolhapur.

20. Working experience with international bodies/international exposures:

- Worked as a Program Committee Member of International Conference on the 6th Multi-Disciplinary International Workshop on Artificial Intelligence, MIWAI'12 held at Vietnam.
- Worked as a Program Committee Member of International Conference on the 6th Multi-Disciplinary International Workshop on Artificial Intelligence, MIWAI'13 held at Thailand.
- Worked as a Program Committee Member of IEEE International Conference on Second International Conference on Emerging Trend in Engineering & Technology (ICETET 2009) held at Nagpur.
- Worked as a Program Committee Member of IEEE International Conference on International Conference on Emerging Trends in Engineering and Technology (ICETET-2010) held at Nagpur India

21. Leadership experience: Working as a Director, School of Computer Sciences, K. B. C. North Maharashtra University, Jalgaon.

22. Serving on Editorial Boards: Guest Editor IJCSA 2017, Special Issue of International Journal of Computer Science and Applications, ISSN 0972-9038 (**Scopus**)

23. Contribution to university/School/Department:

Contribution to School:

- Initiated strengthening of Alumni Association by signing MOUs for various student support activities like "RISE" Scholarship (since 2019-20), Prabhat Tripathi Award/Scholarship (2021-22), Placement Linkages etc.
- Initiated/Motivated Faculty to enroll for Spoken Tutorial Courses in the School.
- Worked as a Deputy Co-ordinator of SAP DRS-I Project, UGC, New Delhi of School of Computer Sciences 2011-2016.
- Co-ordinator of academic Committee since 2009 to till date.
- Co-ordinator of the team responsible for syllabi design of MCA, M.Sc. (CS) & M.Sc. (IT) of the courses run by the School of Computer Sciences.
- Preparation of Academic Calendar of the School.
- Co-ordinator of NET/SET Couching in subject Computer Science and Applications conducted in December 2011-2012.
- Preparation of Quarterly Reports, Annual Reports, AQAR Reports, Academic Audit Reports of the School.
- Involved in organization of Softskill Development Program which was conducted by P. A. Varadpande and his team, Raisonni Institute of Human Excellence, Nagpur during, 2011, 2012 for final year M.Sc. (CS), M.Sc.(IT) and M.C.A. students.
- Involved in organization of a State Level software Competition cum Exhibition "SoftEx-2011" on 8 October, 2011 which gave a platform to explore the ideas and start innovations in software development for the undergraduate and postgraduate students. This year around 200 students from various colleges and institutes have participated in the event.
- Active participation in the major events SoftEx conducted by the School of Computer Sciences, N.M.U.,

Jalgaon.

- Active participation in all activities of the School like Computer Literacy Dindi, Science Day Programs etc.
- Worked as an Organizing Secretary of National Conference on Advances in Computing in 2011(NCAC-2011), Organizing Secretary of National Conference on Advances in Computing in 2012 (NCAC-2012), Organizing Committee Member, NCAC-2013, Convener, NWAC-2014, NCAC-2017.

Contribution to University

- Working as member of the API Verification Committee of K.B.C. North Maharashtra University, Jalgaon since 2016.
- Worked as a Member of “विद्यापीठ विद्यार्थी कल्याण सल्लागार समिती” of KBCNMU, Jalgaon.
- Working as a member of API Verification Committee of the North Maharashtra University, Jalgaon.
- Senate Member, North Maharashtra University, Jalgaon 2016-17.
- Member of BUTR, North Maharashtra University, Jalgaon
- Member of IQAC, North Maharashtra University, Jalgaon 2011-15.
- Involved in syllabi design of MCA, M.Sc. (CS) & M.Sc. (IT) and other Computer related courses run by the affiliated colleges.
- PET Syllabi Design, Examination related duties.
- PhD Course work Syllabus Design & Examination related duties.
- Deputy Coordinator (Avishkar-2016), Co-ordinator of Automation Committee (IT Support Team) constituted for Avishkar-2012, University Level Avishkar-2013, Co-ordinator of Avishkar-2013 (Campus Level) Food Committee, Member, IT Support Team for Avishkar-2013 State Level.
- Worked/working on various Local Enquiry/Interviews and other committees appointed by the Hon'ble Vice Chancellor from time to time.
