

## Prof. Satish Ramesh Kolhe

1. Full Name: Prof. Satish Ramesh Kolhe



2. Contact Information: Professor & Head,  
Department of Computer Applications  
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3. Education Qualification:

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

4. Teaching Experience : 21 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): 05

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)	Submitted
7	Ajay U. Surwade (Computer Science)	Development of Framework for Effective Spam Management System	Submitted

8	Kishor P. Wagh (Computer Engineering)	On Use of Semantic and Ontological Information to Improve Link Mining	Submitted
9	K. P. Adhiya (Computer Engineering)	Automatic Learning of User's Interest in Personalizing Web Search Without User's Explicit Feedback.	Submitted
10	Snehalata B. Shirude (Computer Science)	Development of Recommender System Using Intelligent Agents for Efficient Use of Libraries	Submitted

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

Sr. No.	Name of Student	Topic of Research	Date of Registration
1.	Hussain Dawoodi (Computer Science)	Use of Nature Inspired Technique(s) to improve Routing in Wireless Sensor Networks	22-02-2011
2	Manisha S. Deshmukh (Computer Science)	Offline Handwritten British Age Document Recognition System	03-04-2014
3	Megha Borole	Image Forensics: Image Recapture Detection with Source Camera Identification	2014
4	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	09-02-2015
5	Rupali Sahebrao Patil	Sentiment Analysis of Political Tweets in Marathi Language	09-02-2015

6	Saqr Mohammed HamoodAlmansob (Computer Science)	Addressing Challenges in Big Data Intrusion Detection System	2014
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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: Nil.

13. Number of Patents: Nil.

14. Number of research papers published:

Publication Type	#Papers
International Journals	35
National Journals	9
International Conference Proceedings	18
National Conference Proceedings	30
Presented/Abstract	25

## Journals :44

### International Journals: 35

- 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**).
- 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**).
- 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**)
- 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**).
- 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**)

- Sharmila KishorWagh, 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, PP30-37(**Citations 6**).
- 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**).
- 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**).
- 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**).
- 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**).
- 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.
- 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**).
- 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**).
- V.R. Salkute, **S.R. Kolhe**, E-Government Milestones In Rural India : E-agro Aspects, International Journal of Enterprise Computing and Business Systems, Vol. 1Issue 2 July 2012, ISSN (Online):2230--8849–8849 <http://www.ijecbs.com> (**Citations 1**)
- 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**)
- 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.
- **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.
- 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.
- R, Jayadevan; **Kolhe, Satish**; Patil, Pradeep; Pal, Umapada, Automatic Processing of Handwritten BankCheque Images: A Survey, International Journal of Document Analysis and Recognition (Springer) IJDAR, ISSN: 1433-2833, July 2011. (**Citations 16&Impact Factor 1.03**)

- 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**)
- 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.
- 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.
- 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 2.016**).
- **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.
- 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.
- 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.
- 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.
- 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.
- **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**).
- 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.
- 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.
- 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**)
- 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**).
- 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.

- 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**

- 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.
- 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)
- 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.
- 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.
- **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.
- **S. R. Kolhe**, B. V. Pawar, Nonlinear Time Series Prediction Using Neural Networks, *Journal of Computer Science (JCS)*, Vol. 2, No. 5, 2007.
- **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.
- **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.
- **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: 18**

- Manisha S. Deshmukh, Manoj P. Patil, **Satish R. Kolhe**, "Off-line Handwritten Modi Numerals Recognition using Chain Code" , *ACM Third International Symposium on Women in Computing and Informatics (WCI-2015)*, Organized by SCMS School Of Engineering And Technology, Kochi, Kerala, India during August 10-13, 2015 **ACM Digital Library** (ISBN No. 978-1-4503-3361-0).
- S. K. Wagh, **S. R. Kolhe**, Effective Semi-Supervised Intrusion Detection System, *IEEE International Conference on Data Mining and Intelligent Computing (ICDMIC-2014)*, Organized by Indira Gandhi Delhi Technical University for Women, Kashmere Gate, New Delhi, 5-6 September, 2014 (**IEEE Explorer Conference Record #33840**) (**Citations 1**).
- S. B. Shirude, **S. R. Kolhe**, "Development of Recommender System using Intelligent Agent for

efficient use of libraries”, Presented a PhD Work-in-Progress Report, 26th September 2014, at ACM-DL-W India Celebrations of Women in Computing, AICWIC 2014, at Goa University, Goa.

- S. B. Shirude, **S. R. Kolhe**, “Identifying subject area/s of user using n-Gram and Jaccard’s similarity in profile agent of library recommender system”, International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2014), 14 November, 2014, Udaipur, Organized by Computer Society of India Udaipur Chapter, Published in **ACM DL – International Conference Proceeding Series (ICPS)** ISBN No. 978-1-4503-3216.
- S. B. Shirude, **S. R. Kolhe**, “Measuring Similarity between User Profile and Library Book”, presented a paper during the ISCON 2014, International Conference on Information Systems and Computer Networks on 1st – 2nd March 2014 at GLA University, Mathura, Technically Sponsored by IEEE UP Section and CSI, Mathura Chapter. (**Best Paper Award**) (**IEEE Explorer**)
- K.P. Wagh, **S. R. Kolhe**, A New Approach for Measuring Semantic Similarity in Ontology and Its Application in Information Retrieval, The 6th Multi-Disciplinary International Workshop on Artificial Intelligence 2012 (MIWAI 2012), Organized by at Ho Chi Minh City, Vietnam on Dec 26, 2012 - Dec 28, 2012 (**Springer’s LNAI**) (**Citations 2**).
- S. Wagh, Gaurav Nilwana, **S. R. Kolhe**, A Comprehensive Analysis and Study in Intrusion Detection System Using KNN Algorithm, The 6th Multi-Disciplinary International Workshop on Artificial Intelligence 2012 (MIWAI 2012), Organized by at Ho Chi Minh City, Vietnam on Dec 26, 2012 - Dec 28, 2012 (**Springer’s LNAI**) (**Citations 2**).
- R Jayadevan, **S R Kolhe**, P M Patil and Umapada Pal., “Database Development and Recognition of Handwritten Devanagari Legal Amount Words”, IEEE 11th International Conference on Document Analysis and Recognition (ICDAR-2011), Beijing, China, September 18-21, 2011. (**Citations 10**) (**IEEE Explorer**)
- K.P.Wagh, **Dr. S.R. Kolhe**, Evaluate Semantic Similarity of Words in WorsNet Dictionary, International Conference on Sunrise Technologies (iCOST-2011), S.S.V.P.S.’B.S. College of Engineering, Dhule, January 13-15, 2011
- K.P.Wagh, **Dr. S.R. Kolhe**, Vector model based Information Retrieval, International Conference on Science, Engineering and Spirituality (ICSES-10), April-1-2, 2010, S.E.S. College of Engineering, Navalnagar.
- Praveen S. Patil, **Satish R. Kolhe**, Milind E. Rane, Pradeep M. Patil, Robust person identification system using iris, ACM Proceedings of the 7th International Conference on Information, communications and Signal Processing, held at Macau, China, Pages: 953-957, 2009, ISBN:978-1-4244-4656-8. (**ACM Digital Library**)(**Citations 1**).
- A. M. Patil, **S. R. Kolhe**, P. M. Patil, Face Recognition by PCA Technique, Learn Marathi Language, Proceedings of IEEE International Conference on Emerging Trends in Engineering and Technology (ICETET-09), Organized by IEEE System, Man and Cybernetics Society, USA & G.H. Rasoni College of Engineering and Technology, Nagpur, December 16-18, 2009. (**Citations 8**)(**IEEE Explorer**)
- Kishor P. Wagh, **Satish R. Kolhe**, Analysis of PageRank for Ranking World Wide Web, Proceedings of Second International Conference on Advances in Computer Vision and Information Technology (ACVIT-2009), Organized by Dr. B.A.M.U., Aurangabad, December 2009, PP. 658-662.
- P. M. Mahajan, **Satish R. Kolhe**, P. M. Patil, Segmentation of Texture Images Using Magnitude Response of Gabor Filters, Proceedings of Second International Conference on Advances in



Computer Vision and Information Technology (ACVIT-2009), Organized by Dr. B.A.M.U., Aurangabad, December 2009, PP. 658-662.

- K. P. Adhiya, **S. R. Kolhe**, Sandeep S. Patil, Tracking and Identification of Suspicious and Abnormal Behaviors Using Supervised Machine Learning Technique, ACM Proceedings of the International Conference on Advances in Computing, Communication and Control (ICAC3'09), Organized by Fr. Conceicao Rodrigues College of Engineering, Mumbai (India), PP. 96-99, January 23-24, 2009. **(Citations 1)(ACM Digital Library)**
- **S. R. Kolhe**, B. V. Pawar, A Connectionist Approach to Learn Marathi Language, Proceedings of IEEE International Conference on Emerging Trends in Engineering and Technology (ICETET-08), Organized by IEEE Computer Society, USA & G.H. Rasoni College of Engineering and Technology, Nagpur, July 16-18, 2008. **(Citations 1)(IEEE Explorer)**
- **S. R. Kolhe**, B.V. Pawar, R. S. Zinzore, "Learning Regular Languages Using Neural Networks" Presented at Platinum Jubilee International Conference of the Linguistic Society of India, Organized at CALTS University of Hyderabad during 6<sup>th</sup> - 8<sup>th</sup> December, 2005.
- **S. R. Kolhe**, K.P.Akole, Alphanumeric Character Recognition Using Back propagation Neural Networks, Fifth International Conference on 'Combinatorics, Statistics, Pattern Recognition and Related Areas' held at University of Mysore, Dec. 28-30, 1998.
- **S. R. Kolhe**, K. P. Akole, Some Mathematical Aspects of Neural Networks, The Fifth International Conference of Tensor Society, Japan held at Calcutta, Dec. 21-25, 1998.

#### **Proceedings of National Conferences:30**

- Husain Dawoodi, **S. R. Kolhe**, "Performance Evaluation of Flooding Based Ant Routing Protocol for Wireless Sensor Network", Proceedings Third National Conference on Advances in Computing (NCAC-2013), Organized by School of Computer Sciences, North Maharashtra University, Jalgaon, 5- 6 March 2013, PP. 224-227. ISBN:978-81-910591-7-5
- S. B. Shirude, **S. R. Kolhe**, "Performing content based filtering for discovering the book/s from digital library automated using Koha", Proceedings Third National Conference on Advances in Computing (NCAC-2013), Organized by School of Computer Sciences, North Maharashtra University, Jalgaon, 5- 6 March 2013, PP. 181-183. ISBN:978-81-910591-7-5
- M. P. Patil, **S. R. Kolhe**, "Color Feature based Automatic Image Annotation and Retrieval Using Support Vector Machine ", Proceedings Third National Conference on Advances in Computing (NCAC-2013), Organized by School of Computer Sciences, North Maharashtra University, Jalgaon, 5- 6 March 2013, PP. 211-215. ISBN:978-81-910591-7-5
- K. P. Wagh, **S. R. Kolhe**, "Improving Web Link Mining Using Semantic Similarity Measurement", Proceedings Third National Conference on Advances in Computing (NCAC-2013), Organized by School of Computer Sciences, North Maharashtra University, Jalgaon, 5- 6 March 2013, PP. 232-241, ISBN:978-81-910591-7-5
- M. S. Deshmukh, M. P. Patil, **S. R. Kolhe**, "Recognition of Modi Script Vowels using KNN ", Proceedings Third National Conference on Advances in Computing (NCAC-2013), Organized by School of Computer Sciences, North Maharashtra University, Jalgaon, 5- 6 March 2013, PP. 206-210, ISBN:978-81-910591-7-5
- A. U. Surwade, **S. R. Kolhe**, "Classification of Ham and Spam Emails using Filter ", Proceedings Third National Conference on Advances in Computing (NCAC-2013), Organized by School of Computer Sciences, North Maharashtra University, Jalgaon, 5- 6 March 2013, PP.322-325, ISBN:978-81-910591-7-5
- Hussain H. Dawoodi, **S. R. Kolhe**, Inspiration from Nature for Routing in Wireless Sensor Networks, Proceedings of State Level Conference on Research Trends in Computer and

Management, Organized by Institute of Management and Career Development, Bhusawal, PP. 172-176, ISBN 978-93-81171-59-2, 8 January, 2012.

- Ajay U. Surwade, **S. R. Kolhe**, Spam Classification Using Naïve Bayesian Filter, Proceedings of State Level Conference on Research Trends in Computer and Management, Organized by Institute of Management and Career Development, Bhusawal, PP. 177-181, ISBN 978-93-81171-59-2, 8 January, 2012.
- Manoj P. Patil, **S. R. Kolhe**, Automatic Shape Annotation Using k-Nearest Neighbour (k-NN) Technique, Proceedings of State Level Conference on Research Trends in Computer and Management, Organized by Institute of Management and Career Development, Bhusawal, PP. 182-185, ISBN 978-93-81171-59-2, 8 January, 2012.
- Manisha ShankarraoDeshmukh, **Dr. Satish R. Kolhe**, Image Association using Linear Associative Memories, Proceedings of National Conference on Advances in Computing (NCAC-2011), Organized by Department of Computer Science, North Maharashtra University, Jalgaon, PP. 149-152, ISBN 978-81-910591-2-0, 24-25 February, 2011.
- A. M. Patil, **Dr. Satish R. Kolhe**, Dr. Pradeep M. Patil, PCA in Wavelet Domain for Face Recognition, Proceedings of National Conference on Advances in Computing (NCAC-2011), Organized by Department of Computer Science, North Maharashtra University, Jalgaon, PP. 153-154, ISBN 978-81-910591-2-0, 24-25 February, 2011.
- Punamchand M. Mahajan, **Dr. Satish R. Kolhe**, Dr. Pradeep M. Patil, Fabric Defect Detection using Gabor Wavelet Transform, Proceedings of National Conference on Advances in Computing (NCAC-2011), Organized by Department of Computer Science, North Maharashtra University, Jalgaon, PP. 155-157, ISBN 978-81-910591-2-0, 24-25 February, 2011.
- S. B. Shirude, **Dr. S. R. Kolhe**, Filtering Journal Articles in Implementation of Recommender System based on Similarity Analysis of Semantic Concepts, Proceedings of National Conference on Advances in Computing (NCAC-2011), Organized by Department of Computer Science, North Maharashtra University, Jalgaon, PP. 149-152, ISBN 978-81-910591-2-0, 24-25 February, 2011.
- Kishor P. Wagh **Satish R. Kolhe**, Use of Information Content for Evaluate Semantic Similarity of Concepts in WordNet Dictionary , Proceedings of National Conference on Advances in Computing (NCAC-2011), Organized by Department of Computer Science, North Maharashtra University, Jalgaon, PP. 149-152, ISBN 978-81-910591-2-0, 24-25 February, 2011.
- K. P.Adhiya, **Dr. Satish R. Kolhe**,Vrishali P. Sonavane, User Behavior Study by Data Cleaning and Analyzing Log File, Proceedings of National Conference on Advances in Computing (NCAC-2011), Organized by Department of Computer Science, North Maharashtra University, Jalgaon, PP. 149-152, ISBN 978-81-910591-2-0, 24-25 February, 2011.
- A. U.Surwade, **Dr.S.R.Kolhe**, Combination of origin based filters with Content based filter to block Spam email, Proceedings of National Conference on Advances in Computing (NCAC-2011), Organized by Department of Computer Science, North Maharashtra University, Jalgaon, PP. 149-152, ISBN 978-81-910591-2-0, 24-25 February, 2011.
- M. P.Patil, **S. R.Kolhe**, M. R.Joshi, “Tagging 2D Shapes using Neural Networks and Rough Sets”, Proceedings of “National Conference on Emerging Trends in Soft Computing”, Organized by Department of Computer Science, NowrosjeeWadia College, Pune,February 1-2, 2011.
- **Dr. Satish R. Kolhe**, Dr. B. V. Pawar, Learning Complex Context Free Languages Using Recurrent Neural Networks, National Conference on “Emerging Trends in Engineering, Technology, and Management”, MILESTONE<sub>2</sub>K<sub>10</sub>, Organized by SSBT’s College of Engineering and Technology, Bambhori, Jalgaon, 29 March, 2010.

- Patil M. P., **Kolhe S. R.**, Tagging MPEG7 Shape Dataset Using Connectionist Approach, National Conference on “Emerging Trends in Engineering, Technology, and Management”, MILESTONE<sub>2</sub>K<sub>10</sub>, Organized by SSBT’s College of Engineering and Technology, Bambhori, Jalgaon, 29 March, 2010.
- Kishor P. Wagh, **Dr. Satish R. Kolhe**, Shankar Mundhe, Term Frequency based Text Mining, National Conference on “Emerging Trends in Engineering, Technology, and Management”, MILESTONE<sub>2</sub>K<sub>10</sub>, Organized by SSBT’s College of Engineering and Technology, Bambhori, Jalgaon, 29 March, 2010.
- K. P. Adhiya, **Dr. Satish R. Kolhe**, User Profile Representation for Personalized Web Search, National Conference on “Emerging Trends in Engineering, Technology, and Management”, MILESTONE<sub>2</sub>K<sub>10</sub>, Organized by SSBT’s College of Engineering and Technology, Bambhori, Jalgaon, 29 March, 2010.
- M.P.Patil, S.R.Kolhe “MPEG 7 Shape Dataset Tagging Using Feedforward Neural Networks” at “National Conference on Emerging Technologies in Electronics, Mechanical and Computer Engineering”, Organized by Indore Institute of Science & Technology, Indore(M.P.) April 17-18 , 2010.
- **S. R. Kolhe**, B. V. Pawar, Learning Subset of Natural Language (Marathi) Using Connectionist Approach for Extraction of Complex Grammar, 2<sup>nd</sup> National Conference on Computing , Communication, Electronica & Management (NCCCEM-09), Organized by KCE College of Engineering and Information Technology, Jalgaon, PP. 1-6, 20-21 March, 2009.
- A.U. Surwade, **S. R. Kolhe**,A Proposal to Implement an Effective Spam Management System, National Conference on Architecturing Future IT Systems (NCAFIS’08), Organized by Devi Ahilaya University, Indore to held be on 17-18 October, 2008.
- **S. R. Kolhe**,B. V. Pawar, Using Recurrent Neural Networks to Learn Complex Context Free Grammars,National Conference on Architecturing Future IT Systems (NCAFIS’08), Organized by DeviAhilaya University, Indore to held be on 17-18 October, 2008.
- M. P. Patil, **S. R. Kolhe**, Machine Learning In Automatic Image Annotation,National Conference on Architecturing Future IT Systems (NCAFIS’08), Organized by DeviAhilaya University, Indore to held be on 17-18 October, 2008.
- **S. R. Kolhe**, B. V. Pawar, Grammatical Inference Using Neural Networks, National Conference/Workshop on Advances in Web Based Computing (AWBC) held at North Maharashtra University, Jalgaon, February 2002.
- M. P. Patil, **S. R. Kolhe**, “Fuzzy reasoning for Edge detection: A Review”, at National Conference on “Computing Communication and Electronica” Organized by KCE’s College of Engineering and I.T. Jalgaon(M.S.), 08-09 February, 2008.
- R. S. Zinjore, **S. R. Kolhe**, “Data Clustering Using Supervised and Unsupervised Learning”, National Conference on “Computing Communication and Electronica” Organized by KCE’s College of Engineering and I.T. Jalgaon(M.S.), 08-09 February, 2008.

- **S. R. Kolhe**, K. P. Wagh, Clustering Method for Data Set, National Conference on “Computing Communication and Electronica” Organized by KCE’s College Of Engineering and I.T. Jalgaon, February, 08-09, 2008.

#### **National Conferences/Seminars Papers Presented/Abstract Book: 25**

- A. M. Patil, **Dr. Satish R. Kolhe**, Dr. Pradeep M. Patil, A Survey on Illumination Invariant Face Recognition as a Biometric, National Conference on Recent Trends in Technology (RTIT-2011), Organized by J. T. Mahajan College of Engineering, Faizpur, 3-4 February 2011, PP. 27, 2011.
- Punamchand M. Mahajan, **Dr. Satish R. Kolhe**, Dr. Pradeep M. Patil, Analysis of Natural and Synthetic Texture Images Using Multichannel and Multi-Resolution Approach, National Conference on Recent Trends in Technology (RTIT-2011), Organized by J. T. Mahajan College of Engineering, Faizpur, 3-4 February 2011, PP. 27, 2011.
- M. P. Patil, **S. R. Kolhe**, Tagging 2D Shapes Using Connectionist Approach, 98<sup>th</sup> Indian Science Congress (ISCA), Section VIII: Information and Communication Science & Technology (Including Computer Science) Chennai, PP. 98, January 3-7, 2011.
- **Satish R. Kolhe**, Kishor P. Wagh, A New Approach for Measuring Semantic Similarity between Words via Concepts and Hierarchical Structure, 98<sup>th</sup> Indian Science Congress (ISCA), Section VIII: Information and Communication Science & Technology (Including Computer Science), Chennai, January 3-7, 2011.
- Kishor P. Wagh, **Dr. Satish R. Kolhe**, Developing Ontologies Using Protégé in Semantic Web, National Conference on “Emerging Trends in Computer and Information Technology, Organized by J. T. Mahajan College of Engineering, Faizpur, TECHMEET’10, 4-5 March, 2010.
- Patil M. P., **Kolhe S. R.**, 2D Shape Tagging with Feed-forward Neural Network, National Conference on “Emerging Trends in Computer and Information Technology, Organized by J. T. Mahajan College of Engineering, Faizpur, TECHMEET’10, 4-5 March, 2010.
- K. P. Adhiya, Dr. Satish R. Kolhe, Study of User Behavior by Data Preprocessing and Analyzing Web Logs, National Conference on “Emerging Trends in Computer and Information Technology, Organized by J. T. Mahajan College of Engineering, Faizpur, TECHMEET’10, 4-5 March, 2010.
- M.P.Patil, S.R.Kolhe “Automatic Image Tagging: A Shape Feature Based Approach ” at “National Conference on Natural Resource Management for Sustainable Development” organized by School of Environmental and Earth Sciences, North Maharashtra UniversityJalgaon (M.S.) February 1-2 , 2010.
- M. P. Patil, **S. R. Kolhe**, Image Classification Using Neural Networks, 97<sup>th</sup> Indian Science Congress, Tiruantantpuram, January 3-7, 2009.
- R. S. Zinjore, **S. R. Kolhe**, Data Clustering Using Supervised and Unsupervised Learning, 97<sup>th</sup> Indian Science Congress (ISCA), Tiruantantpuram, January 3-7, 2009. (**Second Best Paper Prize**).
- **S. R. Kolhe**, B. V. Pawar, Use of Wireless Sensor Networks in Farm Irrigation, National Seminar on Sustainable Rural Development: A Strategic Roadmap for Economic Excellence, Organized by

Department of Management Studies, North Maharashtra University at Jalgaon, September 25-26, 2008.

- **S. R. Kolhe**, K. P. Adhiya, Grid Computing: Prospectives Towards an e-Governance Grid for India, National Seminar on Sustainable Rural Development: A Strategic Roadmap for Economic Excellence, Organized by Department of Management Studies, North Maharashtra University at Jalgaon, September 25-26, 2008.
- K. P. Wagh, **S. R. Kolhe**, Data Warehouse and its Applications in Agriculture, National Seminar on Sustainable Rural Development: A Strategic Roadmap for Economic Excellence, Organized by Department of Management Studies, North Maharashtra University at Jalgaon, September 25-26, 2008.
- A. U. Surwade, **S. R. Kolhe**, Developing an Integrated Three Schema Approach in Data Warehousing, National Seminar on Sustainable Rural Development: A Strategic Roadmap for Economic Excellence, Organized by Department of Management Studies, North Maharashtra University at Jalgaon, September 25-26, 2008.
- M. P. Patil, **S. R. Kolhe**, Use of Expert Systems in Agriculture, National Seminar on Sustainable Rural Development: A Strategic Roadmap for Economic Excellence, Organized by Department of Management Studies, North Maharashtra University at Jalgaon, September 25-26, 2008.
- **S. R. Kolhe**, B. V. Pawar, Learning Grammar Using Neural Networks, CVR Memorial Seminar-2004 conducted at North Maharashtra University, Jalgaon, Feb. 28, 2004.
- **S. R. Kolhe**, B. V. Pawar, Time Series Prediction Using Neural Networks, CVR Memorial Seminar-2005 conducted at North Maharashtra University, Jalgaon, Feb. 28, 2005 (**Best Paper Presentation Award**).
- **S. R. Kolhe**, B. V. Pawar, Using ART1 for Data Mining, National Conference on AICT-2005 organized by S.M.A. Science College, Chalisgaon, Feb. 11-12, 2005.
- A. U. Surawade, **S. R. Kolhe**, Selective Encryption of Compressed and Uncompressed Images, National Conference on Use of Computer & Internet for Child Development organized by PG Department of Computer Science, SSVPS Science College, Dhule, January 20-21, 2006.
- R. S. Zinzore, **S. R. Kolhe**, Fuzzy Backpropagation Algorithm, National Conference on Use of Computer & Internet for Child Development organized by PG Department of Computer Science, SSVPS Science College, Dhule, January 20-21, 2006.
- **S. R. Kolhe**, B. V. Pawar, Connectionist Approaches to Image Compression, National Conference on Use of Computer & Internet for Child Development organized by PG Department of Computer Science, SSVPS Science College, Dhule, January 20-21, 2006.
- **S. R. Kolhe**, B. V. Pawar, Language Acquisition Using Neural Networks, CVR Memorial Seminar-2006 conducted at North Maharashtra University, Jalgaon, Feb. 28, 2006, (**Best Paper Presentation Award**).
- **S. R. Kolhe**, B. V. Pawar, Natural Language (Marathi) Grammatical Inference Using Recurrent Neural Networks, CVR Memorial Seminar-2007 conducted at North Maharashtra University, Jalgaon, Feb. 28, 2007, (**Best Paper Presentation Award**).

- **S. R. Kolhe**, M. P. Patil “Business intelligence(BI) Tools and Techniques : Indian Scenario ” at National Conference on “Going Global: Changing Prospects Of Indian Corporation” Organized by Department of Management Studies, North Maharashtra University, Jalgaon on January, 10-11, 2008.
- **S. R. Kolhe**, K. P. Wagh, C. R. Satpute, Performance Comparison of BRICH and CLARANS, National Conference on Applications and Trends in Data Warehousing , Data Mining and Data Modeling, Organized by CSI Dehradun & Forest Research Institute University, Dhradun, 9-10 February, 2008.

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
<b>Dr. Satish R. Kolhe</b> (PI) Manish R. Joshi (Co-PI)	Learning Grammar Using Neural Networks	2001-2004	3,00,000/-	A.I.C.T.E., New Delhi
<b>Dr. Satish R. Kolhe</b> (PI)	Development of High Speed Data Acquisition System	1998-2000	12,000/-	U.G.C., New Delhi
<b>Dr. Satish R. Kolhe</b> (PI) Ajay U. Surwade (Co-PI)	Development of Framework for Spam Detection	2011-2014	2,26,000/-	U.G.C., New Delhi

16. Research project on going (with name of funding agency, amount sanctioned and date of project sanctioned).

Name of Investigator (with PI ,Co-PI )	Title of Project	Duration	Amount Sanctioned	Funding Agency
<b>Dr. Satish R. Kolhe</b> (Deputy Co-ordinator)	SAP DRS-I	2011-2016	51, 50, 000/-	UGC
Hussain Dawoodi (PI) <b>Dr. Satish R. Kolhe</b> (Co-PI)	Impovement of perf in routing for WSN Using ACO	2013-2015	65,000/-	VCRMS, B.C.U.D., NMU, Jalgaon

17. Consultancy Projects: Nil.

18. 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
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<b>Dr. Satish R. Kolhe</b> (PI) Dr. M. P. Patil (Co-PI)	Development of Modi Document Translation System	2014-2017	19, 00, 000/-	DST, New Delhi
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19. Scientific collaborators (with name of the collaborators and name of the institute/University, country).

20. Memberships:

<b>Sr. No.</b>	<b>Name of Institution/Society</b>	<b>Grade of Membership</b>
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

21. Administrative Work experience:

- Working as a Head, Department of Computer Applications, School of Computer Sciences, North Maharashtra University, Jalgaon since 2012.
- Worked as a Chairman of MCA/M.Sc. (Computer Science)/M.Sc. (Information Technology) College and University Examinations from 2004 to 2009.
- Working as a Co-ordinator of Academic Committee of School of Computer Sciences, North Maharashtra University, Jalgaon since 2009.

22. Working experience with national bodies/national exposures:

- Working as a Invited Member of Board of Studies (BOS) in subject Computer Science and Information Technology, Shivaji University, Kolhapur.

23. 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

24. Leadership experience: Working as a Head, Department of Computer Science, North Maharashtra University, Jalgaon.
25. Serving on Editorial Boards.
26. Technology Transferred: Nil.
27. Any other activity done/going on.
28. Contribution to university/School/Department:

### **Contribution to School:**

- Working 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 Coaching 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, Raison 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 the 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.

### **Contribution to University**

- Member of BUTR, North Maharashtra University, Jalgaon
- Member of IQAC, North Maharashtra University, Jalgaon
- 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.
- 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.

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