Bio-Data

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1. **Full Name :**   **Prof. Satish Ramesh Kolhe**

2. Contact Information: Professor & 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, Tiruantantpuram, 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 Ph.D. Students Completed (with name): 10 (Completed) 02 (Submitted)

Sr. No.	Name of the student	Guide/ Co-guide	Topic of research	Date of registration	Date of declaration of Ph.D. degree
1	Jaydevan R.	Guide	Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Hand printed Information (English, Hindi, Marathi) Present on Indian Bank Cheques.	29-12-2008	30-05-2013
2	Aba M. Patil	Co-guide	Studied on Algorithms of Face Recognition	21-08-2007	2014
3	Punamchand M. Mahajan	Co-guide	Analysis of Natural and Synthesis Texture Images Using Multichannel and Multiresolution Approach	21-08-2007	12-02-2014
4	Manoj P. Patil	Guide	Using Machine Learning in Automatic Image Annotation for Content Management	13-05-2008	18-06-2014
5	Snehalata B. Shirude	Guide	Development of Recommender System Using Intelligent Agents for Efficient Use of Libraries	22-01-2009	25-05-2016
6	Ajay U. Surwade	Guide	On Use of Semantic and Ontological Information to Improve Link Mining	13-05-2008	01-04-2016
7	Pravin S. Patil	Co-guide	Iris Recognition System	29-12-2008	20-08-2013

8	Sharmila Kishor Wagh	Guide	Effective IDS Using Machine Learning Technique/s	23-02-2011	2016
9	Kishor P. Adhiya	Guide	Automatic Learning of User's Interest in Personalizing Web Search Without User's Explicit Feedback.	29-12-2008	08-11-2016
10	Kishor P. Wagh	Guide	On Use of Semantic and Ontological Information to Improve Link Mining	29-12-2008	20-04-2018
11	Manisha S. Deshmukh	Guide	Offline Handwritten British Age Modi Document Recognition System.	03-04-2014	Submitted
12	Parag A. Tamhankar	Guide	Creation of a Framework for Recognition and Transliteration of offline Handwritten Historical Marathi Documents written in Modi Script into Devanagari Script.	09-02-2015	Submitted

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

Sr. No.	Name of the student	Guide / Co-guide	Topic of research	Date of registration
1	Rupali Patil	Guide	Sentiment Analysis of Polytical Tweets in Marathi Language.	09-02-2015
2	Megha Borole	Guide	Image Forensics: Image Recapture Detection with SourceCamera Identification	31-08-2015
3	Umesh B. Pawar	Co-Guide	Controller Area Network (Can) For Wire Harness Automotive Application	02-05-2013

4	Sudarshan Subhashrao Sonawane	Guide	Provisional Registration (Computer Engineering)	21-05-2018
5	Bhagyashri Pramod Bhangale	Guide	Provisional Registration (Computer Science)	21-05-2018
6	Pravin Keshav Patil	Guide	Provisional Registration (Computer Engineering)	21-05-2018
9	Priyanshi Jagdeep Borase	Guide	Provisional Registration (Computer Engineering)	21-05-2018

9. Number of M. Phil. Students completed (with name): 02
   - Ms. Ranjana S. Zinjore
   - Ms. Manisha S. Deshmukh

10. Number of Books/Book Chapters Written (Last 3 Year):

Book Chapters (International):

- 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

- 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 Applications, PP 17-29. **Springer Singapore**, 2016, DOI: 10.1007/978-981-10-2630-0_2, ISBN 9789811026294, 9789811026300 (**Scopus**) (online)

- 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).

- 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.

11. Number of Patents: 01 (Published).

Title of the Invention: SECURE ANOMALY BASED EFFICIENT REAL TIME DISTRIBUTED INTRUSION DETECTION SYSTEM (SABER-DIDS)
Application No.201621016976 A
Date of filing of Application: 17/05/2016
Issue No. 28/2016   **Date:** 08/07/2016
Name of Applicant/Inventor

1) SHARMILA KISHOR WAGH
3) BHUPENDRA SINGH
5) RISHAB MISHRA
7) DR. KISHOR S. WAGH

2) AKSHAY MANOJ
4) SHOUMIT KARMIK
6) **DR. SATISH R. KOLHE**

12. Number of research papers published:

Publication Type	#Papers
Book Chapters	4
International Journals	44
National Journals	9
International Conference Proceedings	34
National Conference Proceedings	37
Presented/Abstract	25

Journals :

International Journals:

- 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, 2020, ISSN 1860-949X (Springer)

- 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), 2019 (ESCI, Web of Science). https://doi.org/10.26782/jmcms.2019.02.00004.

- 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, 2019, DOI: 10.4018/IJITWE.2019070102 (SCI/Scopus/web of Science).

- 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, 2018 **(SCI/Scopus/web of Science, Impact Factor 0.451).**

- 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 **(Scopus).**

- 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 **(Scopus).**

- 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),Volume 14, Issue 3, ISSN: 1554-1045|EISSN: 1554-1053|DOI: 10.4018/IJITWE **(SCI/Scopus/web of Science Accepted).**

- 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 - March 2018, PP 344-348, e-ISSN: 2278-621X, P-ISSN: 2319-3778, DOI : http://dx.doi.org/10.21172/1.101.62.

- Snehalata Shirude and Satish Kolhe, Machine Learning using K-nearest Neighbour for library resources classification in agent based library recommender system, "Advances in Computing and Management, **SPRINGER,** DOI 10.1007/978-981-10-2630-0_2

- 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 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**).

- 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. 1 Issue 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 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**)

- 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 Classifer, 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 Unsupervized 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:

- 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 Feedforword 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 Whte-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:

- Umesh Pawar, Sunil Bhirud and **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, El-Compendex, DBLP, SCOPUS, Google Scholar and SpringerLink)

- 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.

- 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

- Umesh Pawar, Sunil Bhirud and **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)

- 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

- Pawar, Umesh and G. Bhirud, Sunil and **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

- Sudarshan Sonawane and **Satish Kolhe**, Term Co-occurrence Based Feature Selection for Sentiment Classification, 3rd International Conference on Next Generation Computing Technologies (NGCT-2017) during 30th and 31st Oct 2017 at University of Petroleum and Energy Studies, Dehradun, India. (Scopus/IEEE Explorer).

- Shirude Snehalata B., Kolhe **Satish R**. **Kolhe**, Classification of Library Resources in Recommender System using Machine Learning Techniques, 52nd Annual Convention of Computer Society of India (CSI-2017) held during January, 19-21, 2018, at Science City Kolkata, Proceedings will be published by SPRINGER NATURE, Singapore (Scopus).

- Parag Tamhankar and **Satish Kolhe**, Skew Detection, Skew Correction, and Shirorekha Extraction of Line Segmented Offline Handwritten Historical Marathi Documents written in MODI Script, International Conference on Recent Innovations in Computing (ICRIC-2018), held on 5th - 6th March, 2018 at Central University of Jammu, J & K.

- Snehalata Bhikanrao Shirude and **Satish Ramesh Kolhe**, "Improving recommendations by assigning weights to semantic concepts." In Global Trends in Signal Processing, Information Computing and Communication (ICSPICC), 2016 International Conference on, pp. 143-147. IEEE, 2016 (Scopus).

- Manisha S. Deshmukh, Manoj P. Patil, **Satish R. Kolhe**, "A Dynamic Statistical Nonparametric Cleaning and Enhancement System for Highly Degraded Ancient Handwritten Modi Lipi Documents" , fifth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2017), ICACCI-17 is technically co-sponsored by IEEE Communications Society (ComSoc)
.
- Ajay U. Surwade, M.P.Patil, **Satish R. Kolhe**, Effective and Adaptive Technological Solution to block Spam E-mails, IEEE International Conference on Advances in Human Machine Interaction HMI 2016, to be held in Doddaballapur, Bengaluru, Karnataka, India during March 3-5, 2016, Organized by RLJIT, Doddaballapur, Bengaluru, Karnataka, India.

- S. B. Shirude, **S. R. Kolhe**, "Classifying Library Resources In Library Recommender Agent Using PU Learning Approach", Proceedings of 2016 International Conference on Data Mining and Advanced Computing (SAPIENCE), ISBN: 978-1-4673-8592-3 Copyright notice:978-1-4673-8594-7/16/$31.00 pp. 79-83©2016 IEEE.

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- Manisha S. Deshmukh, Manoj P. Patil, **Satish R. Kolhe**, "A Dynamic Statistical Nonparametric Cleaning and Enhancement System for Highly Degraded Ancient Handwritten Modi Lipi Documents" ,Fifth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2017), ICACCI-17 is technically co-sponsored by IEEE Communications Society (ComSoc).

- 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 Nilwarna, **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. Raisoni

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. Raisoni College of Engineering and Technology, Nagpur, July 16-18, 2008. (**Citations 1**) (**IEEE Explorer**)

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- **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.

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- Megha Borole, **S. R. Kolhe**, "Efficient Image Recapture Detection using Edge Profile Features and SVM Classifier", "National Conference in Advances in Computing" organize by School of Computer Sciences, North Maharashtra University, Jalgaon, pp.23-26, March 24-25, 2017, ISBN:978-81-910591-8-2.

- M. S. Deshmukh, M. P. Patil, **S. R. Kolhe**, "Detection and Correction of Skew Angle in the Ancient Handwritten Modi Documents", "National Conference in Advances in Computing" organize by School of Computer Sciences, North Maharashtra University, Jalgaon, pp.27-33, March 24-25, 2017, ISBN:978-81-910591-8-2.

- arag A. Tamhankar, **S. R. Kolhe**, "A New Valley Selection Criterion Based on Minimizing the Segmentation Error for Overlapping and Touching Lines in Handwritten MODI Script Documents", "National Conference in Advances in Computing" organize by School of Computer Sciences, North Maharashtra University, Jalgaon, pp.38-43, March 24-25, 2017, ISBN:978-81-910591-8-2.

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- Snehalata B. Shirude, **S. R. Kolhe**, "Classification of Library Resources in Recommender System using Machine Learning Techniques", "National Conference in Advances in Computing" organize by School of Computer Sciences, North Maharashtra University, Jalgaon, pp.69-76, March 24-25, 2017, ISBN:978-81-910591-8-2.

- Rupali S. Patil, **S. R. Kolhe**, "Development of POS Tagger for Marathi Language using Stochastic Methods", "National Conference in Advances in Computing" organize by School of Computer Sciences, North Maharashtra University, Jalgaon, pp.77-82, March 24-25, 2017, ISBN:978-81-910591-8-2.

- 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

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- 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

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- 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.

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- 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$_2$K$_{10}$, Organized by SSBT's College of Engineering and Technology, Bambhori, Jalgaon, 29 March, 2010.

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- **S. R. Kolhe**, B. V. Pawar, Learning Subset of Natural Language (Marathi) Using Connectionist Approach for Extraction of Complex Grammar, 2nd 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.

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- M. P. Patil, **S. R. Kolhe,** Machine Learning In Automatic Image Annotation, 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, 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:

- 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, 98th Indian Science Congress (ISCA), Section VIIII: Information and Communication Science & Technology (Including Computer Science) Chennai, PP. 98, January 3-7, 2011.
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- **Satish R. Kolhe**, Kishor P. Wagh, A New Approach for Measuring Semantic Similarity between Words via Concepts and Hierarchical Structure, 98th Indian Science Congress (ISCA), Section VIIII: 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 University Jalgaon (M.S.) February 1-2 , 2010.

- M. P. Patil, **S. R. Kolhe**, Image Classification Using Neural Networks, 97th Indian Science Congress, Tiruantantpuram, January 3-7, 2009.

- R. S. Zinjore, **S. R. Kolhe**, Data Clustering Using Supervised and Unsupervised Learning, 97th 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.

13. 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

14. 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

15. Administrative Work experience:
- Working as a Director, School of Computer Sciences, K.B.C. North Maharashtra University, Jalgaon since 2019.

- 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.

16. Working experience with national bodies/national exposures:
- Working as a Member of Board of Studies (BOS) in subject Computer Science and Information Technology, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- Working as a Member of Board of Studies (BOS) in subject Computer Science, S. P. Pune University, Pune.
- Worked as a Member of Board of Studies (BOS) in subject Computer Science and Information Technology, Shivaji University, Kolhapur.

17. 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 Tailand.
- 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

18. Leadership experience: Worked as a Head, Department of Computer Applications, North Maharashtra University, Jalgaon from 2012 to 2019.
19. Serving on Editorial Boards: Guest Editor IJCSA 2017, Special Issue of International Journal of Computer Science and Applications, ISSN 0972-9038 (**Scopus**)
20. Invited Lectures/Session Chair (Last 2 Year):

1) Delivered a Invited Talk on "Document Image Processing with A Case Study on Modi Document Recognition" as a Speaker at National Conference on Recent Trends in Management, Computer Science and Applications (NCRTMCSA-2019) at I.M.R, Jalgaon (Maharashtra) on 04 April 2019.

2) Worked as Session Chair at International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management 2019 (ICGTSTHCM 2019) Organized by SSBT College of Engineering and Technology, Jalgaon held on January 18-20, 2019.

3) Invited Talk on "Document Recognition System: A Case Study" as a Resource Person at State Level Seminar on "Digital Image Processing in Computer Science at R. C. Patel Arts, Commerce & Science College, Shirpur (Maharashtra) on 02 March 2019.

Contribution to School:

- 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, Raisoni 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 Secretory of National Conference on Advances in Computing in 2011(NCAC-2011), Organizing Secretory of National Conference on Advances in Computing in 2012 (NCAC-2012), Organizing Committee Member, NCAC-2013, Convener, NWAC-2014, NCAC-2017.

Contribution to University

- Worked as a Coordinator, Expert Management Committee for Campus and University Level Avishkar-2019.
- Worked as a Coordinator, Result Committee, University Level Yavarang-2019.
- Worked as a Coordinator, Registration Committee, for Campus and University Level Avishkar-2018.
- Worked as a **Member** of "विद्यापीठ विद्यार्थी कल्याण सल्लागार समिती".
- Working as a member of API Varification 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
- 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 Coordintor (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.

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