



Dr Saurabh Shah

Professor (Computer Engineering) and Dean (School of Technology)

Education Qualification:

Phd (Computer Engineering), R. K. University

ME (Computer Engineering), Birla Vishwakarma Mahavidyalaya (BVM), S. P. University

BE (Computer Engineering), Saurashtra University

Research Interest:

Medical Image Analysis, Machine Learning, Pattern Recognition, Data Analytics, Computer Vision

Publications:

International Journals:

1. "Automated Indian Vehicle Number Plate Detection", Advances in Intelligent Systems and Computing, vol 742. **Springer**, Singapore (2018)
2. "Fuzzy logic based multi Document Summarization with improved sentence scoring and redundancy removal technique", Expert Systems with Applications(2019), **Elsevier**
3. "Augmenting the Operations on Cloud Virtual Forensic Data by employing Probabilistic Data Structures", International Journal of Sensors, Wireless Communications
4. Enhancing the operations for Integrity check on Virtual Instance Forensic Logs using Cuckoo Filter Trees, International Journal of Cloud Computing, **Inderscience**

5. Decentralized collaborative TTP free approach for privacy preservation in location based services, International Journal of Electrical and Computer Engineering, Vol 9 No. 6 (2019)
6. 5. Evaluating performance of asymmetric homomorphic encryption algorithms for privacy preservation in location based services International Journal of Recent Technology and Engineering(2019)
7. "Technique for optimizing of association rule mining by utilizing genetic algorithm", Recent Patents on Computer Science(2019)
8. "Techniques for Detection and Analysis of Tumours from Brain MRI Images: A Review." Journal of Biomedical Engineering and Medical Imaging 3.1 (2016): 09, UK.
9. "An Automated Approach for Segmentation of Brain MR Images using Gaussian Mixture Model based Hidden Markov Random Field with Expectation Maximization." Journal of Biomedical Engineering and Medical Imaging 2.4 (2015): 57, UK.
10. "Performance Evaluation of Digital Audio Watermarking", International Journal of Research in Electronics and Computer Engineering, Vol.6, 2018
11. "Machine Learning Based Task Scheduling Algorithm in Cloud Computing", Journal of Emerging Technologies and Innovative Research, 2018
12. "Robust and Secured Digital Audio Watermarking using Improved DWT-SVD-DFT approach", International Journal of Engineering & Technology (Scopus Indexed), 2018
13. "A Comprehensive Review and Efficient Implementation of Privacy-Preserving Associative Classification", i-manager's Journal on Information Technology, 7(3), 45-52, 2018
14. "Classification of Brain MRI Images using Computational Intelligent Techniques." International Journal of Computer Applications 124.14 (2015): 27-35, USA.
15. "Generating Metamorphosis of Images using image morphing", Journal of Software Engineering and Technology, International Science Press (Vol.2 No.1 Jan-June 2010), pages 5-9
16. "Ant Colony Optimization for Solving Traveling Salesman Problem", International Journal of Computer Science and System Analysis(IJCSSA) ,Volume 5, Number 1, January-June 2011, pages 23-29

International Conferences:

1. "Cybercrime through the cloud and its impact", International Conference on Computational Intelligence and Data Science (ICCIDS - 2019), **Elsevier** (Accepted)
2. "Automated Indian Vehicle Number Plate Detection", Soft Computing: Theories and Applications 2017, **Springer**, Bundelkhand University, Jhansi, 2017
3. "Issues in Medical Diagnosis using Computational Techniques", **IEEE** International Conference on Computational Intelligence and Communication Networks (CICN 2012), GLA University, Mathura, Nov 2012

4. "Comparison of A Time Efficient Modified K-means Algorithm with K-Means and K-Medoid algorithm", **IEEE** International Conference on Communication Systems and Network Technologies 2012 (CSNT 2012) organized by MIR LABS, Gwalior at Rajkot, April 2012

National Conferences:

1. "Applications of Image Mining and Analysis on Forest images captured by satellites" (ETCC 2010) ,Medi-Caps Institute, Indore ,19/11/2010 to 20/11/10
2. "Generating Metamorphosis of Images using image morphing at National Conference on Advance Computing"(NCAC09), GCET, V.V. Nagar, 9/12/09 to 11/12/09
3. "Mobile Agents – Aglets, A Java-based Agent" ETA- 2006 National Level Competition at CS Dept. Saurashtra University, Rajkot dated 1/10/06 to 2/10/06
4. "Wireless technology using J2ME" , Tech Carnival, Education Campus-Changa 2005

RESEARCH CONTRIBUTION AS A REVIEWER / PROGRAMME COMMITTEE MEMBER/ PhD SUPERVISOR

1. Contributed as a Reviewer in International Journal of Computer Assisted Radiology and Surgery, USA (Springer)
2. Contributed as a Reviewer in International Journal of Engineering & Technology, USA (Scopus indexed)
3. Contributed as a Reviewer in International Conference on Computational Intelligence and Data Engineering (ICCIDE 2017), (Springer)
4. Contributed as a Technical Programme Committee(TPC) member and reviewer in IEEE International Conference on Machine Intelligence, Research, Advancement (ICMIRA-2013) organized during 27th to 29th December 2013 at Katra, Jammu and Kashmir
5. Reviewer in International Journal - South Pacific Journal of Natural and Applied Sciences (SPJNAS) at Suva, FIJI
6. Contributed as a Reviewer in International Conference on Research and Innovations in Science, Engineering & Technology organized by BVM, Vidyanagar
7. Invited to participate as a Advisory Committee member, reviewer, keynote speaker and to chair a session in Parul International Conference on Engineering & Technology (PiCET – 2018) organized by Parul University
8. Reviewer of Internal Conference on Intelligent Systems and Data Processing (ICISD-2011) organized by GCET.
9. Contributed as a Programme Committee Member and Reviewer in International Conference on Advances in Computing, Communication and Informatics organized by M.S. University, Vadodara

10. Invited to participate as a reviewer in national conference on “Recent Advances in Circuits , Communication and Computing Technology(RACCCT-2017)” organized by SCET
11. **Presently guiding Eight PhD Scholars pursuing PhD(Computer Engineering) from C. U. Shah University. Four candidates have been awarded PhD Degree**

Industry Experience:

Trainee at Edutech, Vadodara from Jan 2001 to May 2001

Courses Taught:

Service Oriented Computing, Object Oriented Analysis and Design, Core Java, Advanced Java, Image Processing, Database Management System, Web Technology, Operating Systems, Data Mining and Datawarehousing

Conference & Seminar:

1. Q.I.P. on web development at **IIT, Delhi** from December 8th to 12th 2003.
2. Workshop on Distributed Computing at CSI- A’bad from October 30th to 31st 2004.
3. International workshop on Distributed Computing at **Indian Statistical Institute, Kolkata** from December 27th to 30th 2004.
4. National annual convention on Employing technologies for rural upliftment at C.I.T.- Changa on December 5th 2004.
5. ETA- 2006 National Level Competition at CS Dept. Saurashtra University, Rajkot from October 1st to 2nd 2006.
6. Workshop on Development through Self – Awareness at C.I.T.- Changa from December 22nd to 24th 2003.
7. Workshop on Personal Growth Laboratory at C.I.T.- Changa on 6th, 27th January & 8th Feb 2005.
8. National Symposium on Data and Knowledge Engineering at ADIT, V.V. Nagar on 25th September 2005.
9. STTP on AI and Soft Computing at ADIT, V.V. Nagar from May 22nd to 26th 2006.
10. National Conference on Open Source Software by CII at Hotel Pride, Ahmedabad
11. Two days workshop on “IBM DB2, Websphere” by BIT, Varnama in August 2007.
12. STTP on “Data mining & Data Warehousing” organized by AICTE and **SVNIT, Surat** in January 2010

13. **International workshop** on “Design of Experimental Learning Interactions and Environment”
organized by GTU during 8th Jan to 10th Jan 2011.
14. Two weeks workshop on “Introduction to Research Methodology” organized by **IIT, Bombay** at MBICT, VVNagar from 25th June to 4th July 2012
15. STTP on “Introduction to Machine Learning” organized by Sir Padampat Singhania University, Udaipur, Rajasthan from 13th May to 16th May 2013
16. One week STTP on “Recent Trends in Computational Intelligence” at ADIT, VVNagar from 1st July to
5th July 2013
17. Symposium on “Eradicating Classroom Boundaries in Effective Teaching” organized by BITS edu
campus, Varnama on 2nd January 2014.
18. IEEE Xplore Digital Library awareness organized by BITS edu campus, Varnama on 7-08-2015
19. One Week STTP attended on “ADVANCED IMAGE AND VIDEO PROCESSING” organized by
GCET, V. V. Nagar from 16/10/2015 to 20/12/2015
20. National Seminar on Smart Cities – Current Scenario & Future Challenges organized by BITS Edu campus, Varnama from 24th and 25th March 2017

WORKSHOPS CONDUCTED AND EXPERT TALKS DELIVERED

1. Delivered a Session in GUJCOST Sponsored Workshop on “Applications of MATLAB Software in other Engineering Disciplines” organized by MBICT, V.V. Nagar from 18th June to 19th June 2019
2. Invited and conducted a Session in GUJCOST Sponsored One Week STTP on “Relevance of Statistics and Research Methodology” during 18th Feb to 23rd Feb 2019 at Faculty of Pharmaceutical Science, C. U. Shah University.
3. Delivered Expert talk on “Distributed Computing” as a keynote speaker during inauguration of
Institution of Engineers(IE) Student Chapter, DDIT, Nadiad
4. Conducted Two days workshop on Advanced Java at R.K. University, Rajkot.
5. Delivered Expert talk on “Advanced Computer Graphics” to PG students at Parul Institute.

6. Conducted workshop and contributed as a speaker for Faculty Members of CSE dept, BITS Edu Campus to improve the teaching-learning process on 3rd January 2014.

Awards& Honors:

1. Won Devang Mehta Best IT Project Award and Cash prize of Rs. 1 lakh in association with NASSCOM and GIL on 6th August 2012 from projects submitted by all the Engineering colleges in Gujarat.
2. Recipient of **Appreciation Award** given by management of BITS edu campus in March 2014.

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