Mahesh H Panchal
Head & Associate Professor, Department of Computer Engineering
Kalol Institute of Technology & Research Centre, Gujarat.

Date of Birth: August 25, 1981
Indian, Male, Married

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C/803, Parshwanathnagar, Chandkheda,
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Area of Research : Machine Learning, Search Space Optimization, Swarm Intelligence

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Academics

Ph D- pursuing (Computer Science & Engineering)	Nirma University, Ahmedabad
M E (Computer Engineering)	Birla Vishwakarma Mahavidyalaya, Vallabh Vidyanagar Sardar Patel University June 2009, Result: CPI=9.00 equivalents to 78.25%
B E (Computer Engineering)	L D College of Engineering, Ahmedabad Gujarat University June 2002, Result: 65.26%
H S C E (10 + 2) (Science Stream)	Gujarat Secondary & Higher Secondary Education Board March 1998, Result: 75.38%
S S C E (10th)	Gujarat Secondary & Higher Secondary Education Board March 1996, Result: 82.14%

Experience: Total teaching experience 10 years 9 months in teaching as on June, 2013

September 2002 to June 2004	L D College of Engineering, Ahmedabad Visiting lecturer, Department of Computer Engineering
February 2003 to June 2004	Government Polytechnic for Girls, Ahmedabad Visiting lecturer, Department of Computer Engineering

July 2004 to Nov 2009	A D Patel institute of Technology, New VVNagar Lecturer, Department of Computer Engineering
Dec 2009 to till date	Kalol institute of Technology & Research Centre, Kalol Head & Associate Professor, Department of Computer Engineering

Publication in Journals

[1]	Online Analytical Mining: Architecture and Challenges *Mahesh Panchal* The IUP Journal of Systems Management, ISSN: 0972-6896 *vol: 8 issue: 2 pages: 40-45* May-2010
[2]	Automated Text Categorization with Machine Learning and its Application in Multilingual Text Categorization *Bhagirath Prajapati, Sanjay Garg and Mahesh Panchal* International Journal of Software Engineering & Technology, ISSN: 0975-6159 *vol: 2 issue: 1 pages: 23-28* June-2010
[3]	A Novel Algorithm for Frequent Item-sets Mining using Reduced Database Scan Approach *Mahesh Panchal and Bhagirath Prajapati* Journal of Computer Science, Coimbatore *vol: 4 issue: 5* August-2010
[4]	Real Time Systems: Issues and Applications *Mahesh Panchal* The IUP Journal of Systems Management, ISSN: 0972-6896 *vol: 8 issue: 3 pages: 43-49* August-2010
[5]	Association Rule Mining Method on OLAP Cube *Jigna Jadav and Mahesh Panchal* The International Journal of Engineering Research and Applications, ISSN: 2248-9622 (**Index Copernicus value**: **5.09** in **2011**) *vol: 2 issue: 2 pages: 1147-1151* April-2012
[6]	A Novel Algorithm for PPDM to Hide Association Rule *Parth Prajapati and Mahesh Panchal* Universal Journal of Applied Computer Science & Technology, ISSN: 2250-0987 *vol:2 issue: 2 pages: 277-281*

	April-2012
[7]	A Comparative Analysis of Cancer Gene Classification Approaches from Microarray Data *Mahesh Panchal and Sanjay Garg* GIT-Journal of Engineering and Technology (A National Level Research Journal), ISSN: 2249 – 6157 *Vol: 5* June-2012
[8]	A Review on Diverse Ensemble Methods for Classification *Prachi Adhvaryu and Mahesh Panchal* International Organization of Scientific Research Journal of Computer Engineering, ISSN: 2278-0661 (**Citation Reports: 70.2%**) *vol: 1 issue: 4 pages: 27-32* June-2012
[9]	Mining Temporal Association Rules by Automatic Partitioning and Cope up With Missing Values *Mitula Pandya and Mahesh Panchal* International Journal of Computer Science and Telecommunications, ISSN: 2047-3338 *vol: 3 issue: 7 pages: 31-35* July-2012
[10]	Experimental Comparison of Classifier Accuracy on Cancer Gene Expression Data by Optimal Feature Subset Selection *Parul C. Patel and Mahesh H. Panchal* International Journal of Computer Science & Technology, ISSN: 0976-8491(online) ISSN: 2229-4333(print) (**Global Impact Factor: 0.289** in **2012**) (**Index Copernicus value**: **5.09** in **2011**) *vol: 3 issue: 4* October-December-2012
[11]	Solving Asymmetric Travelling Salesman Problem Using Memetic Algorithm *Misba Shaikh and Prof. Mahesh Panchal* International Journal of Emerging Technology and Advanced Engineering, ISSN: 2250-2459 *vol: 2 issue: 11* November-2012
[12]	Comparative Analysis of Variations of Ant-Miner by Varying Input Parameters *Sonal P. Rami and Mahesh H. Panchal* International Journal of Computer Applications, ISSN: 0975 – 8887 (**Impact Factor: 0.821** in **2012**) *vol: 60 issue: 3 pages: 25-29* December-2012
[13]	A Review on Support Vector Machine for Data Classification *Himani Bhavsar and Mahesh Panchal* International Journal of Advanced Research in Computer Engineering & Technology, ISSN: 2278 – 1323 *vol: 1 issue: 10* December-2012
[14]	Experimental Comparison of Different Problem Transformation Methods for Multi-Label

	Classification using MEKA
	Hiteshri Modi and Mahesh Panchal
	International Journal of Computer Applications, ISSN: 0975 – 8887 (**Impact Factor: 0.821** in **2012**)
	vol: 59 issue: 15 pages: 10-15
	December-2012
[15]	A Review on Ensemble of Diverse Artificial Neural Networks
	Mittal C. Patel and Mahesh Panchal
	International Journal of Advanced Research in Computer Engineering & Technology, ISSN: 2278 – 1323
	vol: 1 issue: 10 pages: 63-70
	December-2012
[16]	A Survey of Graph Pattern Mining Algorithm and Techniques
	Harsh j. Patel, Rakesh Prajapati, Prof. Mahesh Panchal and Dr. Monal J. Patel
	International Journal of Application or Innovation in Engineering & Management, ISSN 2319 – 4847 (**Impact Factor: 2.379 ISRA:JIF**)
	vol:2 issue:1 pages: 125-129
	January-2013
[17]	Evaluation on Different Approaches of Cyclic Association Rules
	Khushali Shah and Mahesh Panchal
	International Journal of Research in Engineering and Technology, ISSN: 2319 -1163184 - 189 (**Impact Factor: 1.962 ISRA:JIF**)
	vol: 2 issue: 2 pages: 25-29
	February-2013
[18]	Optimizing Classification of High Dimensional Data by Hybrid Approach of Feature Selection with Wrapper Evaluators
	Sanjay Garg and Mahesh Panchal
	CiiT International Journal of Data Mining and Knowledge Engineering, ISSN: 0974-9683 (print) ISSN: 0974-9578 (online)
	March-2013
[19]	A Comparative Study of Fuzzy K-mean & Fuzzy K-NN & Fuzzy back propagation
	Manan Bhavsar and Mahesh Panchal
	International Journal of Application or Innovation in Engineering & Management, ISSN: 2319 – 4847 (**Impact Factor: 2.379 ISRA:JIF**)
	vol: 2 issue: 4
	April-2013
[20]	Approaches of Biological Sequence Alignment with Comparison of Experimental Results
	Niyati J. Buch and Mahesh H. Panchal
	Journal of Computational Intelligence in Bioinformatics, ISSN 0973-385X
	vol: 6 issue: 1 pages: 17-26
	2013
[21]	Decorate Ensemble of Artificial Neural Networks with high diversity for classification
	Mittal C Patel, Mahesh Panchal, Himani P. Bhavsar
	International Journal of Computer Science and Mobile Computing, ISSN 2320–088X (**Impact Factor: 1.972 ISRA:JIF**)
	vol: 2 issue: 5 pages: 134-138
	May-2013

[22]	Discovering Fuzzy Classification Rules using ACO with Novel Quality Measure *Sonal Rami and Mahesh Panchal* IFRSA International Journal of Data Warehousing & Mining, ISSN: 2249-2186 (online) ISSN: 2249-7161(print) *vol: 3 issue: 2* May-2013

Publication in Proceedings

[1]	Mining Approximate Association Rules using Multiple Minimum Supports *Mahesh Panchal and Bhagirath Prajapati* Proceeding of National Conference on Emerging Trends in Information and Communication Technology *C.U. Shah College of Engineering & Technology, Wadhwan, May-2008*
[2]	A Comparative Analysis of Sorting Algorithms in two opposite extreme cases *Mahesh Panchal and Dinesh Prajapati* Proceeding of NCCND'09, ISBN: 978-81-904526-6-3, ISSN: 0973-7529 *pages 329-332* BVICAM-New Delhi, 2009
[3]	A Comprehensive Survey on ACO-based Algorithms and Variations *Mahesh Panchal and Chavda Pinkal* Proceedings of International Conference on Networks, Intelligence & Computing Technologies, ISBN: 978-81-8424-741-1 *pages 302-324* Karpagam University, Tamilnadu, 2011
[4]	Comparison of Parent Selection Methods of Genetic Algorithm for TSP *Chetan Chudasama, S. M. Shah and Mahesh Panchal* Proceeding of International Conference on Computer Communication and Networks CSI-COMNET-2011, ISBN: 973-93-80864-61-7 *pages 102-105* A special issue in International Journal of Computer Applications Foundation of Computer Science, New York 2011
[5]	Survey on Temporal Mining Techniques from Time Series Database *Mitula Pandya and Mahesh Panchal* Proceeding of National Conference on Advanced Trends in Applied Science & Technology, ISBN: 978-81-923514-0-7 *pages 214-219* Surat, January-2012
[6]	A Comprehensive Survey on Multidimensional Association Rule Mining *Snehal Patel and Mahesh Panchal* Proceeding of National Conference on Advanced Trends in Applied Science & Technology, ISBN: 978-81-923514-0-7

	Surat, January-2012
[7]	Survey on Association Rule Mining on Data Cube *Jigna Jadav and Mahesh Panchal* Proceeding of National Conference on Advanced Trends in Applied Science & Technology, ISBN: 978-81-923514-0-7 *Surat, January-2012*
[8]	Review on Fuzzy Multilevel Association Rule Mining *Vandana Halani and Mahesh Panchal* Proceedings of International Conference on Information, Knowledge and Research in Engineering, Technologies and Sciences, ISBN: 978-81-966220-3-5 *pages 282-286* Rajkot, 2012
[9]	Clustering- A Mining Method on OLAP Cube *Jigna Jadav and Mahesh Panchal* Proceedings of International Conference on Information, Knowledge and Research in Engineering, Technologies and Sciences, ISBN: 978-81-966220-3-5 *pages 512-515* Rajkot, 2012
[10]	A Survey on Privacy Preserving Data Mining Techniques *Parth Prajapati and Mahesh Panchal* Proceedings of International Conference on Information, Knowledge and Research in Engineering, Technologies and Sciences, ISBN: 978-81-966220-3-5 *pages 590-594* Rajkot, 2012
[11]	Novel Approach to Finding Frequent Item-sets from Dataset *Yatin Patel and Mahesh Panchal* Proceedings of International Conference on Information, Knowledge and Research in Engineering, Technologies and Sciences, ISBN: 978-81-966220-3-5 *pages 1279-1281* Rajkot, 2012
[12]	Mining Frequent Cyclic Sequences *Khushali Shah and Mahesh Panchal* Proceedings of National Conference on Innovative & Emerging Technologies (NCIET), ISBN: 978-81-925650-0-2 Smt. S. R. Patel Engineering College, Dabhi - Unjha. Jan-2013
[13]	Mining Multi level Association Rules Survey Paper *Harsh j. Patel, Rakesh Prajapati, and Prof. Mahesh Panchal* Proceedings of National Conference on Innovative & Emerging Technologies (NCIET), ISBN: 978-81-925650-0-2 *pages 498-503* Smt. S. R. Patel Engineering College, Dabhi - Unjha. Jan-2013

No. of PG students guided for Dissertation: 21

No. of UG projects guided: around 30

Achievements

[1] Selected as a candidate for post graduate program under **Quality Improvement Program (QIP)** at MNNIT, Allahabad in Jan-2007.
[2] Best **Research Idea** award for delivering a lecture in MHRD-AICTE sponsored staff development program at National Institute of Technology, Trichy during 25 May-6 June, 2009.

Knowledge Sharing through Expert Lectures

[1] *Advanced Microprocessor Architecture* at ADIT in September, 2004.
[2] *Shared Memory Multiprogramming* at ADIT in April, 2006
[3] *Role of Missing Information in Database* at ADIT in February, 2007
[4] *TSR Using C* at BBIT, VVNagar, Anand in August, 2007
[5] *Assignment, Tutorials and Continuous Assessment* in Induction Training at KITRC-Kalol in July, 2010.
[6] *Algorithms: Analysis & Design* at SRPEC, Unjha in July, 2011

Workshop/Seminar Organization

[1] A Workshop on *Database Security* under ISTE Chapter of ADIT on 28th December, 2006
[2] A two day Workshop on *Data Mining using Machine Learning* at KITRC during 15-16 October, 2011
[3] A seminar on *Road map of Dissertation in M.E./M.Tech.* at KITRC on 10th July, 2013

Participation in STTPs/Workshops/Seminars

[1] A Workshop on *Data Mining and Genetic Algorithms* Organized by
Department of Computer Engineering, ADIT
23-27 November, 2004.
[2] State level Workshop on *Network Management* Organized by
Department of Computer Science, Veer Narmad South Gujarat University, Surat
6-7 December, 2004.
[3] 2nd National Symposium on *Data and Knowledge Engineering-2005* Organized by
ADIT
25th September, 2005
[4] A Seminar on *Getting Mileage through industrial tours and visits* Organized by
Electrical Engineering Department, ADIT

14th September, 2006

[5] A Workshop on *Information Security* organized by
Department of Computer Science and Engineering,
Technical Education Quality Improvement Programme,
Vishweshwaray National institute of Technology, Nagpur
11-13 December, 2006.

[6] A Seminar on *Security in IT* Organized by
Computer Engineering & Information Technology Department,
Institute of Diploma Studies,
Nirma Institute of Science & Technology
4th August, 2007.

[7] A MHRD-AICTE sponsored staff development programme on
Data Warehousing and Data Mining organized by
Department of Computer Applications,
National Institute of Technology, Trichy
25 May-6 June, 2009.

[8] A Short Term Course (Recognized by AICTE) on
Training of Trainers on NBA, CBCS & API organized by
National Institute of Technical Teachers' Training and Research (NITTTR), Bhopal
(NITTTR Extension Centre, Ahmedabad)
15 July- 19 July, 2013.

Subjects in touch

☐ Design and Analysis of Computer Algorithms
☐ Data Mining & Data Warehousing
☐ Data Structure and Algorithms
☐ Artificial Intelligence
☐ Advanced Database Management Concepts
☐ Compiler Design
☐ Computer Architecture
☐ Programming Paradigm (Programming in C)
☐ Object Oriented Programming (C++, Core Java)

References

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