



Name : **Prof. Manisha Sharma**  
Designation : Vice Principal  
Age : 49 Years  
Institution : Bhilai Institute of Technology, Durg, Chhattisgarh  
Department : Electronics & Telecommunication

### Academic Qualifications:

Examination	Institute	Board/University	Subject	Year
Higher Secondary	Carmel Convent School, Bhopal	M. P. Board, Bhopal	P.C.M.	1988
B.E.	Government Engineering College, Bhopal	Barkhattullah University, Bhopal	Electronics & Telecommunications	1992
M.E.	Government Engineering College, Jabalpur	Rani Durgavati University, Jabalpur	Electronics & Telecommunications -Communication Systems	1995
Ph.D.	B.I.T, Durg	C.S.V.T.U, Bhilai	Electronics & Telecommunications	2010
Certification	AICTE - UKIERI	CMI (Chartered Management Institute)	Leadership & Management	2017-18

Date of Joining BIT, Durg : June 1993  
R & D and Teaching Experience : 27 years  
Ph.D. Scholars under supervision : 7 (6 Completed , 01 submitted)

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Google Scholar Id: <https://scholar.google.com/citations?hl=enauthuse>  
Microsoft Academic Search Id: <https://academic.com/profile/gf2jh532-microsoft1i>

### Awards and Recognition

- Received **National Award - AICTE Visveswaraya BEST TEACHER 2020** by Ministry of Education , Government of India
- Among the ten member team selected for Study Tour to Dudley College, UK under the AICTE – UK Education Research Initiative in April 2019.

- Awarded as “**Active Participation – Woman Member**” by Computer Society of India 2014
- Awarded as “**Lady Engineer Award**” by the Institution of Engineers (India) Bhilai Local Centre, on the occasion of 45<sup>th</sup> Engineers day on 23<sup>rd</sup> Dec 2012.

**Details of PhD Guidance:**

S.No :	Name of Research Scholar	Topic of Research	Role	Status /Year
1	Archana Tiwari	Vector Quantization Based Semi - fragile Watermarking Scheme for Image Authentication	Supervisor	Completed - 2017
2	Dolley Shukla	A Scene Based Robust Digital Video Watermarking Scheme for Copy Protection	Supervisor	Completed - 2018
3	Latika Pinjarkar	Design and Implementation of Improved Content Based Image Retrieval System in Trademark Registration	Supervisor	Completed - 2019
4	Rajesh Tiwari	Optimization of Single program Multiple Data Virtualization in Parallel Environment	Supervisor	Completed - 2020
5	Amar Dey	An Automatic Cognitive Vision Approach for Determination of Growth and Quality of Betel Leaves	Supervisor	Completed - 2020
6	Ritu Aggarwal	An Improved Electronic Patient Record Embedding Scheme Using M- Ary Modulation In Region of Non Interest of Medical Images	Supervisor	Completed - 2020
7	Sreejit Panicker	Hybrid approach for synthesis and classification of facial images for age determination	Co-Supervisor	Ph.D Thesis Submitted

**Professional Activities:**

- Life Member of Indian Society for Technical Education.
- Fellow Member of IETE.
- Fellow Member of Institution of Engineers, India.
- Member of Computer Society of India

#### **Sponsored Projects :**

- 1) Design and Development of Parallel Framework for Measurement of Heat Distribution in Metallic Sheets, Principal Investigator sponsored by CSVTU- Rs 3.00 lakhs (Ongoing)
- 2) Design and Implementation of Image Retrieval System for trademark/logo image for registration, Co - Principal Investigator sponsored by CSVTU- Rs 1.5 lakhs (Ongoing)
- 3) Design and Development of a System for Testing Various Sensors on Embedded Platform Co - Principal Investigator sponsored by Chhattisgarh Council of Science Technology, - Rs 2.0 lakhs( Completed)

#### **Software Copyright:**

- 1) Watermarking System for Video Authentication- Copyright Office, Government of India, SW- 13054/ 2019
- 2) Medical Image Watermarking- Copyright Office, Government of India, SW-12388/2019

#### **Papers Published in Journals:**

#### **Publications in Journals: 59 ( 17 research publications in SCI/SCIE/ESCI/Scopus indexed Journals)**

- 1) D. Shukla, M. Sharma, “ Digital movies tracking using scene based watermarking system,” Radioelectronics and Communications Systems- Springer,vol.62, 202-213, 2019 [**Scopus**]
- 2) A.K. Dey, P. Guha, M. Sharma and M.R. Meshram, “Comparison of different Methods of In-situ Leaf Area Measurement of Betel Leaf (Piper betle L.),” International Journal of Recent Technology and Engineering, vol. 7, no.6, pp.1512-1516. Aug., 2019. [**Scopus**]
- 3) F. Deshmukh, and A. K. Dey, “Blood Leukemia Classification using Neuro-Fuzzy Expert System,” International Journal of Management, Technology and Engineering, vol. 9, no.3, pp. 711-722. 2019. [**UGC**]
- 4) Ritu Aggarwal, Manisha Sharma et.al “Performance evaluation of automated brain tumor detection systems with expert delineations and inter-observer variability analysis in diseased patients on magnetic resonance imaging” in International Journal of Artificial Intelligence, Taylor & Francis, Vol. 32, Issue 7-8, pp 670-691, 2018. (**Indexed in SCIE**)
- 5) L. Pinjarkar, M. Sharma, “Deep CNN combined with Relevance Feedback for trademark image retrieval”, Journal Smita of Intelligent Systems, vol. 29, no. 1, pp. 101–109, 2018. (**E-SCI and SCOPUS**)

- 6) S.Srijeet, S. Selot, M. Sharma “Generating efficient classifiers using facial components for age classification”, International Journal of Image Mining, Vol. 3, No. 1, pp. 38 – 48, 2018(**Publisher Inderscience**)
- 7) Archana Tiwari , Manisha Sharma "An Image Authentication Algorithm using Combined Approach of Watermarking and Vector Quantization".In Journal of Intelligent Systems , Vol. 27, Issue 1, pp. 31-45, 2018. (**Indexed in E-SCI and SCOPUS**).
- 8) A.K. Dey, P.Guha, M. Sharma and M.R.Meshram, “Development of a RGB-based model for predicting SPAD value and chlorophyll content of betel leaf (Piper betleL.)”, Journal of Mechanics of Continua and Mathematical Sciences, vol.13, no. 1, pp. 1-16, 2018.[**ESCI**]
- 9) A.Das, A.K. Dey, and M. Sharma,“Leaf Disease Detection, Quantification and Classification Using Digital Image Processing,” International Journal of Management, Technology and Engineering,vol. 8, no.3, pp.423-432. 2018. [**UGC**]
- 10) Dolley Shukla, Manisha Sharma, “Robust Scene-Based Digital Video Watermarking Scheme using 3-Level DWT: Approach, Evaluation, and Experimentation” , Radio Electronics & Communication Systems. Vol. 61, No. 1, pp.1-12. [Indexed in **SCOPUS**] [Publisher: **Springer**]
- 11) Dolley Shukla, Manisha Sharma, “A New Approach for Scene-Based Digital Video Watermarking Using Discrete Wavelet Transforms” , International Journal of Advanced and Applied Sciences, Vol. 5, Issue 2 , pp.148-160, 2018[Indexed in **E-SCI**]
- 12) Dolley Shukla, Manisha Sharma, “A novel video scene change detection using successive estimation of statistical measure and HiBiSLI method” , International Journal of Information Technology, Vol. 4, pp 34 -39, 2018.[Publisher-**Springer**]
- 13) Latika Pinjarkar, Manisha Sharma “Novel Relevance Feedback Approach for Color Trademark Recognition Using optimization and Learning Strategy”, Journal of Intelligent Systems Vol. 27, No. 1, pp. 67–79, 2018 (**Indexed in E-SCI and SCOPUS**).
- 14) Archana Tiwari, Manisha Sharma ,“An Efficient Vector Quantization based Watermarking Method for Image Integrity Authentication” . Lecture Notes in Advances in Intelligent Systems and Computing, Computing, Vol. 719, chapter 24, 2018. (**Springer publisher**), (**Indexed in SCOPUS**).
- 15) Ritu Aggarwal, Manisha Sharma et.al “Segmentation of brain lesions in MRI and CT scan images: A hybrid approach using k-means and image morphology” in Journal of Institution of Engineers, India Series B Vol.99, Issue 2: pp. 173-180 , 2018, (**Indexed in Scopus**).
- 16) Latika Pinjarkar, Manisha Sharma “Content-Based Image Retrieval using Deep Learning: A Comprehensive Survey” International Journal of Advanced in Management, Technology and Engineering Sciences, Vol. 8, Issue 3, pp. 567-572, 2017.
- 17) Ritu Aggarwal, Manisha Sharma et. “Segmentation of Brain tumour based on clustering technique: Performance Analysis”, in Journal of Intelligent Systems, Vol 2, pp 23 – 31, 2017(**Indexed in E-SCI, Scopus**).
- 18) Dolley Shukla, Manisha Sharma,“A Novel Scene-Based Video Watermarking Scheme for Copyright Protection” ,Journal of Intelligent Systems, 2017.Indexed in **E-SCI, SCOPUS**]

- 19) Dolley Shukla, Manisha Sharma, "A Robust Scene-Based Video Watermarking Using Different Wavelet" ,Indian Journal of Scientific Research, Vol. 17,Issue 1, pp. 173-180, 2017.
- 20) Archana Tiwari , Manisha Sharma "Watermarking based image authentication and tamper detection algorithm using vector quantization approach" . In AEU - International Journal of Electronics and Communications, Vol. 78, pp. 114–123, 2017. **(Indexed in SCI).**
- 21) Archana Tiwari , Manisha Sharma "A Novel Watermarking Scheme for Image Authentication using Vector Quantization Approach" . In Radioelectronics and Communications Systems. Vol. 60, No. 4, pp. 206–221, 2017. **(Springer publisher). (Indexed in SCOPUS).**
- 22) Latika Pinjarkar, Manisha Sharma "Relevance feedback approach for trademark image Retrieval using query improvement strategy" i-manager's Journal on Future Engineering and Technology, Vol. 13, No. 2, pp.17- 22, 2017.
- 23) Latika Pinjarkar, Manisha Sharma "Novel System for Color Logo Recognition Using Optimization and Learning Based Relevance Feedback Technique" International Journal of Computer Vision and Image Processing Vol.7, Issue 4, pp.32 – 41, 2017.
- 24) Dolley Shukla, Manisha Sharma, Chandrashekhar Mithlesh, "Video to Image Conversion Techniques Video Frame Extraction" , International Journal of Emerging Science and Engineering, Vol. 4, Issue 3, pp. 30-34, 2016.
- 25) R. Aggarwal, M. Sharma, "Patient record data hiding in medical images using M-ary modulation" Research Journal of Engineering Sciences, vol.59, no.9,pp 5-10, 2016
- 26) Latika Pinjarkar, Manisha Sharma "Trademark image retrieval using Low Level Feature Extraction in CBIR" , International Journal of Engineering Sciences & Research Technology, Vol. 5, No. 12, pp. 66-76 , 2016.
- 27) Dolley Shukla, Manisha Sharma "Improved Video Watermarking using Discrete Cosine Transform" , i-manager's Journal on Image Processing. Vol. 02, No.03, pp. 29-34, 2015.
- 28) R. Aggarwal, M. Sharma, "A Review of Segmentation method based on Intensity Inhomogeneity in MRI Brain," International Journal of Computer Information Systems, vol.10, pp. 30-39, 2015.
- 29) R. Aggarwal, M. Sharma, "Denoising Technique for Segmentation of Medical Images Using Biorthogonal Wavelet Transform," i-manager's Journal on Image Processing, vol.2 ,no.3, 35-39, 2015.
- 30) Archana Tiwari , Manisha Sharma Image Authentication Using Semi-fragile Watermarking and Vector Quantization" . In i-manager's Journal on Image Processing. Vol.2, No.2, pp.32-37, 2015.
- 31) Dolley Shukla, Manisha Sharma "Performance Evaluation of Image Watermark System using selected Discrete Cosine Transform", The Journal of Applied Sciences Research, Vol. 2, No. 2,pp. 86- 92, 2015.

- 32) Dolley Shukla, Manisha Sharma, Chandrashekhar Mithilesh “Scene Change Detector using Block Processing Method” , The Journal of Applied Sciences Research, Vol. 2, No. 2, pp.103-110, 2015.
- 33) Dolley Shukla, Manisha Sharma “A Study on different video Scene Change Detection Techniques” , International Journal of Science and Research (IJSR), International Journal of Science and Research Vol 3, pp. 214-219, 2015.
- 34) Latika Pinjarkar, Manisha Sharma “Trademark image retrieval using 3-D color histogram approach” , i-manager’s Journal on Pattern Recognition ISSN: 2349-7912, Vol. 2, No. 3, pp. 24-29, 2015.
- 35) Latika Pinjarkar, Manisha Sharma “Visual Feature Description Techniques for Content Based Image Retrieval” , The Journal of Applied Sciences Research Vol. 2, No. 2, pp. 97-102, 2015.
- 36) Archana Tiwari , Manisha Sharma “A Survey of Transform Domain based Semi-fragile Watermarking Scheme for Image Authentication” . In Journal of the Institution of Engineers (India): Series B: Vol. 93, Issue 3, pp-185-191, 2013. **(Springer Publisher)** **(SCOPUS indexed)**.
- 37) Latika Pinjarkar, Manisha Sharma “ Content Based Image Retrieval for trademark Registration: A Survey” , International Journal of Advanced Research in Computer and Communication Engineering, Vol. 2, Issue 11, pp.4424-4430, 2013.
- 38) Archana Tiwari , Manisha Sharma “Comparative Evaluation of Semi-fragile Watermarking Algorithm for Image Authentication” . In Journal of Information Security, Vol. 3 No. 3, pp. 189-195, 2012.
- 39) Dolley Shukla, Manisha Sharma “Watermarking Schemes for Copy Protection: A Survey” , International Journal of Computer Science & Engineering Survey, Vol. 03, No. 01, pp. 65-71, 2012.
- 40) Archana Tiwari , Manisha Sharma “Semifragile Watermarking for Image Authentication- A Survey". In International Journal of Computer Network and information Security, Vol. 4, No. 2, pp 43 - 49, 2012.
- 41) Dolley Shukla, Manisha Sharma, “Overview of Scene Change Detection–Application of Watermarking” International Journal of Computer Applications, Vol. 47, No.19, pp. 1-5, 2012.
- 42) Latika Pinjarkar, Manisha Sharma “ Relevance Feedback Techniques in Content Based Image Retrieval : A Survey” International Journal of Engineering Research and Development, Vol. 1, Issue 9, pp.19-23, 2012.
- 43) Latika Pinjarkar, Manisha Sharma “Comparative Evaluation of Image Retrieval Algorithms using Relevance Feedback and it’s Applications” International Journal of Computer Applications, Vol. 48, No.18, pp.12-16 , 2012.
- 44) Latika Pinjarkar, Manisha Sharma “Comparison and Analysis of Content Based Image Retrieval Systems Based On Relevance Feedback” Journal of Emerging Trends in Computing and Information Sciences, Vol. 3, No. 6, pp 833-837, 2012.

- 45) Archana Tiwari , Manisha Sharma “Watermarking Techniques for Image Authentication” . In International Journal of Electronics Telecommunication and Instrumentation Engineering, Vol. 05, Issue no. 1, pp 19 – 23, 2011.
- 46) Archana Tiwari , Manisha Sharma “Performance Comparison of Semifragile Watermarking Methods for Image Authentication” . In International Journal of Scientific and Engineering Research, Vol. 2, Issue 10, pp. 1-6, 2011.
- 47) Archana Tiwari, Manisha Sharma “Evaluation and Comparison of Semi Fragile Watermarking Methods for Image Authentication” . In International Journal of Computational Intelligence and Information Security, Vol. 2, No 8, pp.36-42, 2011.
- 48) Dolley Shukla, Manisha Sharma, “Scene Change Detection Algorithms & Techniques: A Survey” ,International Journal of Computer Science & Information security, Vol. 9, Issue 12. pp 73-77, 2011.**(For Best Paper Award)[SCOPUS]**.
- 49) Dolley Shukla, Manisha Sharma, “A Comprehensive Survey of Contemporary Researches in Watermarking for Copy Protection of Digital Images” in International Journal of Intelligent Information Processing Vol. 05, No. 2, pp. 61-63, 2011.
- 50) Dolley Shukla,Manisha Sharma “A Review of Watermarking Techniques for Copy Protection of Digital Images & Methods” International Journal of Computational Intelligence and Information Security, Vol. 2, No. 10, pp 31-35,2011.
- 51) Manisha Sharma, M.K. Kowar, “Digital Watermarking – A Survey” International Journal of Engineering Research & Industrial Applications, Vol. 2, No. II, pp. 63 -74, 2009.
- 52) Manisha Sharma, M.K. Kowar “Adaptive Digital Watermarking using Elliptic Curve” International Journal of Applied Artificial Intelligence in Engineering System. Vol. 1, No.2, PP 157-164, 2009.
- 53) Manisha Sharma, M.K. Kowar “Comparison, Analysis and Demand of Pseudo Random Sequence Generators” International Journal of Engineering Research & Industrial Applications, Vol. 1, No IV, pp. 185-187, 2008.
- 54) Manisha Sharma, M.K. Kowar “Improved Evolutionary Algorithm for Secured Image using Adaptive Genetic Algorithm” Journal of Discrete Mathematical Science and Cryptography, Vol. 11, No. VI,pp. 673-683, 2008.
- 55) “Manisha Sharma, M.K. Kowar Adaptive Digital Watermarking” International Journal of Engineering Research & Industrial Applications, Vol.1, No. III, pp.191-197, 2008.
- 56) Manisha Sharma, M.K. Kowar “A Novel Image Encryption Algorithm using Multi-Chaotic Schemes as Elliptic Curve, Quasi Group and also with Genetic Algorithm” Journal on future Engineering & Technology, Vol. 3, No IV, pp. 70-79,2008.
- 57) Manisha Sharma, M.K. Kowar “Generation of Pseudo Random Sequence using Elliptic Curve” , Indian Journal of Information Science and Technology, Vol.3, Issue: 2, pp. 11-13, 2008.
- 58) “Development of an encoder Model for Encrypted Communication” Applied Science Periodical in Vol.9, No. I,pp. 9 -12, 2007
- 59) “Pseudo Random Number + Genetic Algorithm = Evolutionary Security System” Chhattisgarh Swami Vivekananda Technical University Journal, Bilai, Vol.1, No.2, pp. 69-75, 2007.

## **International/National Conference:**

### **Publications in Conference Proceedings: 35(08 Scopus Indexed Conferences)**

- 1) S. Panicker, M. Sharma, "Use of Textural and Structural Facial Features in Generating Efficient Age Classifiers" In Proc. International Conference on Advances in Intelligent Systems and Computing- Springer, Conference Book Series, 2018, pp. 978-981 [Scopus]
- 2) R. Tiwari ,Manisha Sharma "Performance analysis of various high-performance computing models," Journal of Advanced Research in Dynamic and Control System, vol. 10, no. 2, pp. 2192 – 2200, 2018, [Scopus].
- 3) S. Srijeet, M. Sharma, "Use of textural and structural facial features in generating efficient age classifiers," Journal of Advances in Intelligent Systems and Computing , vol. 709, 2018, [Scopus]
- 4) Dolley Shukla, Manisha Sharma, "A Robust Scene-Based Video-Watermarking using Different Wavelet" , International Conference on Innovations & Sustainable Development in Sciences, Management & Technology, March 2017, atSSIPMT, Raipur, India.
- 5) R. Aggarwal , M. Sharma, "Robust and imperceptible hybrid watermarking technique for application in telemedicine," Journal of Advanced Research in Dynamical and Control Systems, vol. 9, no. 8, 2017 [ Scopus].
- 6) R. Aggarwal, M. Sharma, "Medical Image Watermarking Technique in the Application of E- diagnosis using M-ary Modulation," In Proc. International Conference on Computing Modelling and Security- Elsevier,vol. 85, 2016, pp. 648 – 655 [ Scopus]
- 7) S. Panicker, M. Sharma, "Global Facial Feature Extraction using Efficient Technique for Human Age Classification" In Proc. International Conference on Intelligent Systems-Elsevier, 2016, 231 -237.
- 8) S. Panicker, M. Sharma, "Fusion of Structural and Textural Facial Features for Generating Efficient Age Classifiers" In Proc. International Conference on Informatics and Analytics, Conference Book Series, 2016, pp. 1-6. [Scopus]
- 9) Latika Pinjarkar, Manisha Sharma "Efficient System for Color Logo Recognition based on Self-Organizing Map and Relevance Feedback technique" Proceedings of International Conference on Smart Computing and Informatics, pp.53-62, Visakhapatnam, March 2017.
- 10) Dolley Shukla, Manisha Sharma "Performance Evaluation of Video watermarking System using Discrete Wavelet Transform for four Sub-bands" , International Conference on Cyber Security, 2016, Kota, August 2016.
- 11) Dolley Shukla, Manisha Sharma, "Video Watermarking using Dyadic Filter and Discrete Wavelet Transform" , IEEE Digital library, Proceeding of IEEE International conference on Wireless Communications, Signal Processing and Networking, pp. 1691-1694, Chennai, March 2016.
- 12) Latika Pinjarkar, Manisha Sharma "Comparison and Analysis of Trademark Image Retrieval Systems" International Conference on Cyber Security, Kota, August 2016.



- 13) Latika Pinjarkar, Manisha Sharma “Improved Trademark Image Retrieval System using Relevance Feedback” in Proceedings of International Conference on Computational Intelligence and Communication Networks, Jabalpur, India. pp. 298-304, 2016.
- 14) A.K. Dey, M. Sharma and M.R.Meshram,“Image processing based leaf rot disease, detection of betel vine (Piper BetleL.),” Procedia Computer Science, vol. 85, pp. 748-754, 2016. [Scopus]
- 15) A.K. Dey, M. Sharma and M.R.Meshram,“An analysis of leaf chlorophyll measurement method using chlorophyll meter and image processing technique,” Procedia Computer Science, vol. 85, pp. 286-292, 2016. [Scopus]
- 16) Manisha Sharma “Level set Method based Lip tracking system” , National conference on Advances in communication and computing, Nagpur 22-23 Feb. 2013. (**Awarded as Best Paper**)
- 17) Manisha Sharma “*Result based analysis of various Lip Tracking Systems*” , IEEE International conference on Green computing , Bangalore 14-15 March 2013.
- 18) Dolley Shukla, Manisha Sharma “*A Comparative Analysis of Watermarking for Copy Protection of Digital Images*” in Proceedings of International Conference on Computer Science and Information Technology pp. 323–328, 2012.
- 19) Manisha Sharma, M.K. Kowar “*Error correction capability of trellis coded Modulation for AWGN Channel*” in National Conference on Innovation in Science and Technology towards Industrial Development, June 4<sup>th</sup>-5<sup>th</sup> , 2008, RCET, Bhilai.
- 20) Manisha Sharma, M.K. Kowar “*Development of a Digital Watermarking technique for Copyright Protection using Elliptic Curve*” in National Conference on Advances in Information and Communication Technologies 7-8 Nov, 2008 at BIT, Durg.
- 21) Manisha Sharma, M.K. Kowar “*BER Performance of various Modulation Techniques in AWGN and Fading Channels in GSM*” in National Conference on Advances in Information and Communication Technologies 7<sup>th</sup>-8<sup>th</sup> Nov, 2008 at BIT, Durg.
- 22) Manisha Sharma, K.L. Kar “*SOC Design and Modeling Analog, Mixed Signal & MEMS*” at National Conference on Design Techniques for Modern Electronic Devices, VLSI & Communication Systems organized by Department of Electronics & Communication Engineering, NIT Hamirpur, sponsored by TEQIP,VSI, DIT from 14<sup>th</sup> –15<sup>th</sup> May, 2007.
- 23) Manisha Sharma, M.K. Kowar “*A Novel technique used for Invisible Watermarking*” at a National conference on Broadband Communication, BITCON-07 during 16<sup>th</sup> – 17<sup>th</sup> March 2007 organized by B.I.T., Durg.
- 24) Manisha Sharma, M.K. Kowar “*Sharing a secret text in multiple images*” at All India Seminar on Advanced Communication Techniques And Networking : Exploring Challenges. during 6<sup>th</sup>-7<sup>th</sup> January 2007, jointly organized by the Institute of Engineers (Bhilai local centre) and S.S.C.E.T. Bhilai.
- 25) Manisha Sharma, M.K. Kowar “*Survey on Image encryption Techniques*” at All India Seminar on Advanced Communication Techniques And Networking: Exploring Challenges. during 6<sup>th</sup> -7<sup>th</sup> January 2007, jointly organized by the Institute of Engineers (Bhilai local centre) and S.S.C.E.T. Bhilai.

- 26) Manisha Sharma, M.K. Kowar “*A Novel Data Security System using Genetic Algorithm*” during June 26-29, 2006 in International Conference on Computer Design held at Las Vegas, USA.
- 27) Manisha Sharma, M.K. Kowar “*Quasi Group Pseudo Random Generator Sequence*” in 22<sup>nd</sup> National Convention of Electronics and Telecommunication Engineers organized by Rajasthan State Center ,Institution of Engineers (India) during 4<sup>th</sup>-5<sup>th</sup> August 2006.
- 28) Manisha Sharma, M.K. Kowar “*An Evolutionary Algorithm in a security based Software Engineering*” 2<sup>nd</sup> International Conference on Wireless Communication and Sensor Networks (WCSN) 2006 collaborated with IEEE communication society during 17<sup>th</sup> -19<sup>th</sup>, December 2006.
- 29) Manisha Sharma, M.K. Kowar “*Impact of Information Technology on Common People*” on 17<sup>th</sup> May 2005 at World Telecomm. Day, jointly organized by Institution of Engineers(India), Bhilai Local Centre & Bhilai Steel Plant.
- 30) Manisha Sharma, M.K. Kowar “*Cyber security through encryption of textual information*” at National Conference on Cyber Security , Data Mining and ICT for the Society on 18<sup>th</sup> – 19<sup>th</sup> January, 2006 at G.G.U., Bilaspur.
- 31) Manisha Sharma “*Design and Development of a Model Codec for Secure Communication*” at National Symposium on 28<sup>th</sup>-29<sup>th</sup> January 2005 held at SSCET, Bhilai.
- 32) Manisha Sharma, “*Role of Technical Institute to Promote Innovation and Entrepreneurship*” at National Seminar on Technology Management and Entrepreneurship on March 13<sup>th</sup> -14<sup>th</sup> 2005 at RCET, Bhilai.
- 33) Manisha Sharma “*Design and Development of a Model Encoder for secure Communication*” at 10<sup>th</sup> Annual Conference of Vijnana Parishad of India on Mathematical Modelling on 17<sup>th</sup> – 19<sup>th</sup> May ,2004 at MNIT, Bhopal.
- 34) Manisha Sharma, M.K. Kowar, “*Development of a Novel Encryption Technique for Secure Communication*” at National Conference on Advanced Image Processing & Networking during February 11<sup>th</sup> – 12<sup>th</sup> 2005, at Kovilpatti, Tamilnadu.
- 35) Manisha Sharma, Preeti Mehta “*Role of Technical Education in Industrial Development*” at National Seminar held in G.E.C. Raipur, 2000.