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**Teaching & Research Interests:**

Data Mining, Machine Learning, Optimization Techniques, Modeling & Simulations, Blind Source Separation, Digital Signal and Image Processing, Information Security & Forensics, Materials Management & Inventory Control, Intelligent Enterprise Resource Planning, Project Management.

**Educational Qualifications with Specialization:**

- a) Ph. D. (Computer Science) in 2008, Dayalbagh Educational Institute, Dayalbagh, Agra
- b) M. Sc. (Computer Science) in 2002, Dayalbagh Educational Institute, Dayalbagh, Agra
- c) B. Sc. (Physics & Mathematics) in 2000, Dr. R. M. L. Avadh University, Faizabad

**Employment and Experience: [ Research & Development- 13+ Years, Teaching- 10 Years]**

- a. Associate Professor, Nov. 09, 2015 – Present, IIIT Allahabad, PB 4, GP 9500, Basic 54,340/-
- b. Associate Professor, April 06, 2013 –Nov. 08, 2015, IIIT Allahabad, PB 4, GP 9000, Basic 49,240/-
- c. Assistant Professor, Aug. 06, 2012 – Apr. 05, 2013, IIIT Allahabad, PB 4, GP 9000, Basic 46,400/-
- d. Assistant Professor, Aug. 06, 2009 – Aug. 05, 2012, IIIT Allahabad, PB 3, GP 8000, Basic 45,350/-
- e. Faculty Associate/ Lecturer, June 09, 2005 – Aug. 05, 2009, IIIT Allahabad, PB 3, GP 7000, Basic 30,560/-
- f. Senior Project Associate, Oct. 01, 2003 – June 06, 2005, Dept. of EE, IIT Kanpur, Consolidated 11,000/-
- g. Project Associate, April 23, 2002 – Sept. 30, 2003, Dept. of EE, IIT Kanpur, Consolidated 7,800/-

**Administrative Experience:**

- a. Head, Dept. of Information Technology, July 5, 2017 onwards
- b. Faculty In- Charge Ph. D. Cell, July 06, 2012 – Jan 09, 2014, IIIT Allahabad
- c. Chief Proctor, July 06, 2012 – Jan 09, 2014, IIIT Allahabad
- d. Warden, Boys Hostel, Aug. 01, 2005 – July 05, 2012, IIIT Allahabad

**Software's Developed:**

- a. **Condition Monitoring and Fault Diagnosis of a Two Wheeler Engine for TVS Motors Company, Hosur** capable of classifying the engine into Good and Faulty Class and also predicting the possible type of fault in an engine. (Users: TVS Motor Co. Hosur)
- b. **General Purpose Neural Network Software BIKAS for BARC @ IIT Kanpur:** consists of all the Advanced Neural Networks Algorithms from Supervised to Unsupervised domain. (Users: BARC, ISRO, SAIL, IOCL and EIL)
- c. **ANN Software for ISRO- Inertial System Unit, Thiruvananthapuram @ IIT Kanpur:** capable of stability testing of Gyroscope and Accelerometer Sensors at ground level testing and after Takeoff. (Users: ISRO)
- d. **Blind Source Separation Software:** based on the cocktail party problem and capable of segregating the audio,

vibrations, image and other signals from the noise and other unwanted signals. **(Users: NBRC, NCRB, CBI)**

#### **Research Grants:**

1. **Principal Investigator.** “*Quality assurance, condition monitoring and fault diagnosis using intelligent control methodologies*”, Core – Group on Automotive Research (C.A.R.), Technology Information, Forecasting & Assessment Council (TIFAC), Department of Science & Technology , Govt. of India, Sept. 28, 2007 – August 31, 2009, **(Total Grant: 156.6 Lakhs, IIITA Share: 40.2 Lakhs)**
2. **Member**, “*Establishing a center for generating high quality reengineered E contents for students, mentors and Teachers*”, Ministry of Human Resource & Development, Govt. of India, Sept. 01, 2009 – Aug. 31, 2010, **150.00 Lakhs**
3. **Member**, “*Micro and Nano-Electronic Devices and Technologies for Environmental Monitoring (Special emphasis on Wild life protection/Tiger Protection)*,” Indo Swiss Joint Research Programme, 2010 – 2012, **144.00 Lakhs**
4. **Member**, “*Development of neuron like detection filters/ image identification*”, DST- FRBR, Nov. 24, 2009- Nov. 23, 2011, **28.84 Lakhs**
5. **Other – Collaborator**, “*Wireless Sensor Networks for Protecting Wildlife and Humans*”, DIT, India & NSF USA, **2013 - 2015**, IIITA Budget: **123.79 Lakhs**

#### **International Consultancy Project:**

6. **Member**, “*Course curriculum development in IT and allied areas for New University Setup*”, Putera Sampoerna Foundation, Jakarta, Feb. 01, 2012 – May 15, 2012, **50.00 Lakhs**

#### **MHRD NME- ICT Mission Project:**

7. **Regional Coordinator**, *LCAD (Aakash Tablet) testing and study of penetration of ICT in Rural & Urban Students of UP*, sponsored by IIT Rajasthan, under NME- ICT, MHRD, June - Oct. 2011.

#### **International Visits (Grants):**

- a. Represented IIITA at Gulf Education and Training Exhibition (GETEX- the largest education fair in the Middle East and Asia, Organized by International Conferences & Exhibitions (IC&E)) 2007, Dubai, April 11 – 14, 2007.
- b. DST Sponsored Young Scientist Interaction and Participation in International Youth Innovation Forum in Siberia (INTERRA), Novosibirsk, Russia, Sep. 22- 25, 2010.
- c. Follow-up Research Interaction & Collaboration Visit, University of Abertay, Dundee, (UAD), Scotland, March 7 - 12, 2011 under Academic & Educational MOU between IIITA & UOD.
- d. Visiting Research Faculty at EPFL, Switzerland, for Micro and Nano-Electronic Devices and Technologies for Environmental Monitoring Project under Indo Swiss Joint Research Programme (ISJRP), Dec 8, 2011 – Jan. 5, 2012.
- e. (DST Sponsored) Participated in the first Indo-Russian summer school on "High Performance Computing for Geophysical Problems" Jointly organized by Indian Institute of Information Technology-Allahabad (IIIT-A) and Moscow Institute of Physics and Technology (MIPT), Nalchik, Russia, June 10 - June 18, 2013.
- f. (CPDA) IEEE- SPS Winter School on Security and Privacy Issues in Biometrics, Center for Cyber Security at New York University, Abu Dhabi, Jan. 7 – 12, 2017.

- g. (CPDA) Winter School on Optimization and Operations Research, Transport and Mobility Laboratory, EPFL, Switzerland, Jan. 15 – 20, 2017. Successfully completed 1 credit course during the School.

**Awards/Achievements/Extra-Curricular:**

- a. Two Gold Medals in Bachelor's Degree for securing highest marks in College and as a Best Student of College
- b. Best Project Implementation Certificate in NBRC Sponsored Short Term Course on Computational Neuroscience at University of Hyderabad, Oct. 11 – 21, 2004.
- c. Successful Pre-Project Completion Certificate by ISRO Inertial System Unit, Indian Space Research Organization, Trivandrum.
- d. NCC – "C" Certificate
- e. President, Research Associate's Hostel, IIT Kanpur, 2004 – 2005
- f. Faculty InCharge – Technical Club, IIITA, 2012

**Recognitions/ Positions:**

- a. Expert, Public Service Commission of various states Govt.
- b. Member, Institute Health Centre Advisory Committee, IIITA, Feb. 02, 2017 – till date
- c. Confidential Work – JEE, CBSE Board Delhi
- d. Member, Academic Council, IIITA, Feb. 05, 2013 - March 02, 2015
- e. Chairman, Security Implementation & HR Committee, IIITA, July 06, 2012 – Jan 09, 2014
- f. Member, Anti Ragging Committee 2010, 2011, 2012, 2013, 2014
- g. Member, Senate, IIITA, Feb.05, 2011- Feb. 04, 2013
- h. Member, Selection Committee of Staff, IIITA, June 2012
- i. Member, Scrutiny Committee for Non - Academic Technical Positions, IIT Jodhpur, August 2012
- j. Organizing Committee Member, Inspire Program, IIITA, 2010, 2011, 2013
- k. Member, Science Conclave, IIITA, 2008, 2009, 2010, 2011, 2012, 2013, 2014
- l. Member- Hostel up gradation committee, IIITA, 2005-2012
- m. Member, Purchase Committee, IIITA, 2011
- n. Regional Coordinator, LCAD testing and penetration of ICT in Rural & Urban Students of UP under NME- ICT, MHRD, June to Oct. 2011

**Membership of Professional Societies/ Advisory Board:**

- a) Member – IEEE Robotics & Automation Society (RAS)
- b) Member – Asia Pacific Neural Network Assembly
- c) Member – International Association of Engineers
- d) Life Member -- Society for Neurochemistry India
- e) Advisor - Network Power Solution Enterprise- NPSE
- f) Editorial Board Member -- International Journal of Instrumentation and Control Systems (IJICS)
- g) Editorial Board Member - Proceedings of Engineering & Technology

**International Program/Technical Committee/Session Chair:**

- a) International MultiConference of Engineers and Computer Scientists, Hong Kong, 2014, 2015.
- b) The Sixth International Conference on Wireless, Mobile Network & Applications (WiMoA 2014), Chennai, July 26 – 27, 2014
- c) **Session Chair**, 9th IEEE International Conference on Industrial and Information Systems (ICIIS2014), IIIT Gwalior, 15-17 December 2014.
- d) IEEE Sponsored International Conference on Signal Processing and Integrated Networks, SPIN, New Delhi, 2014.
- e) **Session Co – Chair**, IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions, IIT Kanpur, July 14 – 19, 2013.

- f) Springer, IInd International Conference on Intelligent Interactive Technologies and Multimedia, IIIT Allahabad, March 09 – 11, 2013.
- g) 5th International Conference on Intelligent Human Computer Interaction Sydney, 2013.
- h) 3rd International Conference on Computer Technology and Development, ICCT, Chengdu, China. November 25-27, 2011.
- i) ACM, International conference on Advances in Computing and Artificial Intelligence (ACAI), Punjab, July 21-22, 2011.
- j) IEEE Region-10 sponsored "Colloquium and International Conference" 2011.
- k) ACM, First international conference on Intelligent Interactive Technologies and Multimedia, IIIT Allahabad, Dec. 28 – 30, 2010.

**Reviewer:**

- a) IEEE Transactions on Signal Processing
- b) IEEE Transactions on Neural Networks
- c) IEEE Transactions on Automation Science and Engineering
- d) IEEE Transactions on Audio, Speech and Language Processing
- e) IEEE Signal Processing Letters
- f) International Journal of Computational Vision and Robotics (IJCVR), Inderscience
- a) Global Journal of Business, Management and Accounting
- b) International Research Journal of Library, Information and Archival Studies (IRJLIAS)
- c) African Journal of Marketing Management
- d) International Journal of Bank Marketing
- e) Decision Sciences
- f) Many International Conferences

**Research / Thesis/ Project's Supervision:**

Doctoral Thesis (Completed under Supervised): 03  
 Doctoral Thesis (Under Review): 02  
 Doctoral Thesis (Ongoing under Supervision): 04  
 Doctoral Thesis (Ongoing under Co - Supervision): 02  
 CV Raman International Fellowship for African Researchers (DST & FICCI): 01 (senior fellowship 1 month)  
 M. Tech. Thesis Supervised: 24  
 M. Tech. Thesis (Ongoing under Supervision): 01  
 MBA/MSCLIS Projects Supervised: > 50  
 B. Tech. Projects Supervised: >100

**Courses Undertaken:**

**Under Graduate Level:**

Optimization Techniques,  
 Modeling and Simulations,  
 Image Processing,  
 Data Warehousing & Mining,  
 Digital Signal Processing,  
 Neuro- Fuzzy Computing,  
 Soft Computing,  
 Digital Electronics,  
 Electronics Workshop,  
 Introduction to Programming,  
 Introduction of Computers and Programming

**Post Graduate Level:**

Data Information & Cryptography,  
Quantitative Decision Modeling,  
Data Warehousing & Mining  
Pattern Recognition,  
Project Management,  
Software Engineering,  
Software Solutions & Processing,  
System Design and Integration,  
Quality Assurance & Control,  
Materials Management & Inventory Control (Course developed by me)  
Research Methodology,  
Digital Infrastructure & Enterprise Resource Planning (*one module on Intelligent ERP has been added by me*)

**Teaching Pedagogy:**

All the course materials in weekly formats are on the MOODLE server. I use to take quizzes, assignments, polls, chat, doubt discussion through the Moodle server only in order to save time and give more transparency to the students in overall evaluation and learning process.

**Professional Training Received/QIP Course Attended:**

- a. Three days' workshop on Low Cost Access-cum-Computing Devices (LCAD) under National Mission on Education, IIT Jodhpur, June 28 – 30, 2011.
- b. Two Weeks short term course on "Information Security", Dept. of Computer Sc. & Engineering, PEC, Puducherry, sponsored by DIT under ISEA Project, June 01 – 12, 2009.
- c. One Week "Animated Stories Appreciation of Animation Art", at National Institute of Design (NID), Ahmadabad, Feb. 18-22, 2008.
- d. 15 Days, QIP short term course on "Application of Matlab in Engineering", sponsored by AICTE at IIT Kanpur, May 16-31, 2006.
- e. IPv6 Workshop, Dept. of Computer Science & Engineering, IIT Kanpur, April 01 – 02, 2005.
- f. Ten Days, NBRC Sponsored Short Course on Computational Neuroscience, Dept. of Computer & Information Sciences, Univ. of Hyderabad, Oct. 11 – 21, 2004.
- g. 12 Days, NBRC Sponsored Short Course on Computational Neuroscience, Dept. of Electrical Engineering, IIT Kanpur, July 7-18, 2003.

**International Conference/ Workshop/ Courses Organized:**

- a. **Coordinator**, Summer School on Robotics, Sponsored by Science and Engineering Research Board (SERB), DST, June 07 – 13, 2014.
- b. **(Member of Organizing Committee)** 6<sup>th</sup> Science Conclave: A Congregation of Nobel Prize Winners and INSPIRE Internship Programme 2013, Dec. 08 – 14, 2013.
- c. **Coordinator & Resource Person**, 3 Weeks -Indo Africa Training Programme on Technological Innovation for Capacity Building in Data Analysis, Oct. 15 – Nov. 3, 2012
- d. **Coordinator**, Workshop on Content Development in Advertising & Brand Management through IT enabled tools, IITA, March 18 - 22, 2009.
- e. **(Member of Organizing Committee)** First IEEE International Conference on Intelligent Human Computer Interaction, IITA, Jan. 19 - 22, 2009.

- f. **(Member of Organizing Committee)** Science Conclave: A Congregation of Nobel Prize Winners, Dec. 15 – 21, 2008.
- g. **(Member of Organizing Committee)** Sensitization cum Awareness Program for Technology Information Facilitation, Sponsored by-Department of Scientific & Industrial Research (DSIR), Govt. of India, IITA, Oct. 27, 2008.
- h. **(Member of Organizing Committee)** Finishing Schools 2008, IITA, June- July 2008.
- i. **Coordinator**, Short Term course on E-content Development & Delivery supported by AICTE/ MHRD (GoI), New Delhi, IITA, June 24 – July 3, 2008.
- j. **(Member of Organizing Committee)** Two days summer school on information security, IITA, March 29 – 30, 2008.
- k. **Coordinator**, Workshop on Research Methodology & Marketing Research, IITA, Jan 3- 4, 2008.
- l. **(Member of Organizing Committee)** IEEE 13th International Conference on Wireless Communications and Sensor Networks, Dec. 11 -15, 2007.
- m. **(Member of Organizing Committee)** IEEE 12th International Conference on Wireless Communications and Sensor Networks, Dec. 17 -19, 2006.
- n. **(Member of Organizing Committee)** 80th All Indian Universities/ Institute Vice Chancellors/ Directors Conference, IITA, Nov. 24 – 27, 2005.

**International Conference/ Workshop/ Seminar's Attended:**

- a. National Seminar on Quality of Teaching in Self Finance Management Institutions, FMS, BHU, Oct. 31, 2009.
- b. National Seminar on Rural Services Delivery and Contents through ICT, RGIIT, August 20-21, 2008.
- c. Sensitization cum Awareness Program for Technology Information Facilitation, IITA & DSIR, GoI, Oct. 27, 2007.
- d. Short term course on Bio-informatics and Data Mining, IIT Kanpur, April 17- 22, 2005.

**Lectures Delivered/ CSR:**

- a. Brain Storming Session on Human Robot Interaction, 10<sup>th</sup> Uttarakhand State Science & Technology Congress 2015 – 16 at Uttarakhand State Council for Science & Technology (UCOST), Dehradun, Feb. 10 – 12, 2016.
- b. Key Resource Person in FDP on “Innovative Methods in Teaching”, Technocrats Institute of Technology- MBA, May 27 – 31, 2015.
- c. QIP Short Term Quality Improvement Program on Intelligent Informatics, IIT Kanpur, July 14 – 19, 2013.
- d. Workshop on Systems Biology (WSB13), IITA, March. 16 – 17, 2013.
- e. Workshop on Image Processing and Neural Networks, MANIT Bhopal, May 12-16, 2008.
- f. Taken weekly classes on “Computer & Internet” using E- Classroom Facility of IIIT Allahabad, under the joint Village Resource Centre Project of Indian Space Research Organization, Bangalore and Rajiv Gandhi Institute of Information Technology, Tikermafi, Amethi, July-Dec. 2007.
- g. Conference on Advanced Manufacturing Technologies, organized by Core-group on Automotive R & D (C. A. R), DST at Central Leather Research Institute, Chennai, June 17, 2006.
- h. Short term course on Bio-informatics and Data Mining, IIT Kanpur, April 17 – 22, 2005.
- i. Short Course on Computational Neuroscience, Dept. of Computer & Information Sciences, Univ. of Hyderabad, Oct. 11 – 21, 2004.
- j. Delivered Guest Lecture on Application of ANN to Real Life Problems at Bhabha Atomic Research Centre, Mumbai, India, in the workshop of Artificial Neural Networks, in 2003.

## **Publications:**

### **International Journals:**

### **Information Technology Areas:**

1. Pawan Sharma, Rashmi Tripathi, Vrijendra Singh, RC Tripathi, "Assessing the ICT innovative position of India based on patent data and research publications", Queen Mary Journal of Intellectual Property, 6, 4, 514- 533, Dec. 01, 2016. (SSCI)
2. Ranjeet Kumar, RC Tripathi, Vrijendra Singh, "Keyword Based Search and its Limitations in the Patent Document to Secure the Idea from its Infringement", Procedia Computer Science, 78, 439 – 446, Elsevier. Jan. 01, 2016. (Scopus)
3. Sanchi Manchanda, Sweta Kumari, Kishore Abhishek, Dr. Vrijendra Singh, "Legitimizing Bitcoins in India", Computer and Telecommunications Law Review, Sweet & Maxwell Ltd., ISSN: 1357-3128, Thomson Reuters, 2015.
4. Pooja Gupta, Ankita Lavania, Madhuri Agarwal, Vrijendra Singh, "Implementation of Non-Repudiation Services in Digital Video Generation & Distribution on Android Devices", International Journal of Education and Management Engineering (IJEME) ISSN: 2305-3623(Print), ISSN: 2305-8463 (Online), 2015.
5. Nishtha Sankhwar, Anuja Tewari, Vrijendra Singh, "SDL, CLASP & TOUCHPOINTS: A Comparison and Alignment of CLASP with Waterfall Model", International Journal of Computer and Communication System Engineering, Volume 02, Issue 03, June 2015.
6. Ravi Raman Tiwari, Anil Kumar Singh, Vrijendra Singh, "Self-Learning SIEM System Using Association Rule Mining", Journal of Advanced Database Management & Systems, Vol. 2 Issues 2,pp 10 – 23, May 25, 2015.
7. Jalal, AS, Singh, V, "A framework for background modeling and shadow suppression for moving object detection in complex wavelet domain", Multimedia Tools and Applications, 73, 2, 2014, Springer US.(SCI)
8. Pranshu Bajpai, Nikhil Raj Singh, Vrijendra Singh, "Analysis of Current Wi-Fi Security Practices via War Driving and Proposed Solution", International Journal of Advanced Computational Engineering and Networking, Vol. 2, Issue 7, ISSN 2320- 2106, 2014.
9. Tripathi, Shiv PN, Jaiswal, Manas, Singh, Vrijendra, "Securing DNA Information through Public Key Cryptography", MIS REVIEW: An International Journal Vol. 19, No. 1, pp. 45- 59, ISSN 1018-1393, 2013, 國立政治大學 & Airiti Press.
10. AS Jalal, V Singh, "The State-of-the-Art in Visual Object Tracking", Informatica: an International Journal of Computing and Informatics, 36 (3), 227-248, Slovenia, 2013.(Scopus)
11. Verma, A., Rao, MS, Gupta, AK, Jeberson, W, Singh, V, "A Literature review on malware and its analysis", International Journal of Current Research and Review Vol. 5, No. 16, pp. 71 -82, 2013.
12. Parvathy. A, Ravi Shankar Choudhary, V. Singh, "Legal Issues Involving Cryptography In India", International Journal of Computer Application (IJCA), Vol. 2, Issue 3, 66-77, ISSN 2250-1797, 2013.
13. A. Sethiya, T. Srivastava, R. Srivastava, V. Singh, "A novel method for dynamic sampling plan and inspection policies for quality assurance", Asian Research Journal of Business Management, India, Vol.1. Issue 1, 2013.
14. M. M. Swarup, A. Dwivedi, C. Sonkar, R. Prasad, M. Bag, V. Singh, "A QR Code Based Processing For Dynamic and Transparent Seat Allocation in Indian Railway", IJCSI International Journal of Computer Science Issues(IJCSI) Vol. 9, No. 1,pp.- 338 – 344, 2012.

15. AS Jalal, V Singh , “Robust object tracking under appearance change conditions based on Daubechies complex wavelet transform”, International Journal of Multimedia Intelligence and Security, Vol. 2, No. 3, 252-268, 2011.
16. Nairit Adhikary, Rohit Shrivastava, Ashwani Kumar, Sunil Verma, Monark Bag, Vrijendra Singh, “Battering Keyloggers and Screen Recording Software by Fabricating Passwords”, International Journal of Computer Network and Information Security (IJCNIS ), Vol. 5, No. 13, pp. 13- 21, 2012.
17. A Chitrey, D Singh, V Singh, “A Comprehensive Study of Social Engineering Based Attacks in India to Develop a Conceptual Model”, International Journal of Information and Network Security (IJINS) 1 (2), 45-53, 2012.
18. Om Prakash, V Singh, PK Kalra, “Signature extraction from acoustic signals and its application for ANN based engine fault diagnosis”, International Journal of Signal and Imaging Systems Engineering, Vol. 5, No. 3, pp. 220-226, Inderscience, 2012. (Scopus)
19. AS Jalal, V Singh, “A multi–resolution framework for multi–object tracking in Daubechies complex wavelet domain”, International Journal of Computational Vision and Robotics 3 (1), 52-74, 2012. (Scopus)
20. Devki Gaurav Pal, Ravi Krishna, Prashant Srivastava, Sushil Kumar, Monark Bag, Vrijendra Singh, “A Novel Open Security Framework for Cloud Computing”, International Journal of Cloud Computing and Services Science (IJ-CLOSER) ISSN: 2089-3337, Vol.1, No.2, 45 - 52, June 2012.
21. K Kunal, RC Tripathi, V Singh, “An HARQ based Optimized Error Correction Technique”, International Journal of Computer Applications IJCA 9 (1), 24-28, 2010.

#### **Management Areas:**

22. Vaibhav Mishra, Vrijendra Singh, "Selection of appropriate electronic banking channel alternative: critical analysis using analytical hierarchy process", International Journal of Bank Marketing (Emerald Group Publishing Limited), Vol. 33, 3, 2015. (Scopus)
23. Mishra, Vaibhav, Singh, Vrijendra, "Factors affecting the adoption or acceptance of internet banking services: a review and analysis of past research", International Journal of Electronic Business, 11, 3, pp. 234- 255, Inderscience Publishers, 2014.
24. Sahai, Manjari, Agarwal, Prince, Mishra, Vaibhav, Bag, Monark, Singh, Vrijendra, "Supplier Selection through Application of DEA", IJEM-International Journal of Engineering and Manufacturing (IJEM), Vol. 4, 1, 1, 2014.
25. Vishwakarma, Pankaj, Kumar, Gaurav, Singh, Vrijendra, "Comparative Analysis of E-commerce portal based on user’s Feedback–A Cognitive Task Approach", International Journal of Research, Vol. 1, No. 4, pp. 1- 7, 2014.
26. P Agarwal, V Mishra, M Sahai, M Bag, V Singh, “Supplier Selection in Dynamic Environment using Analytic Hierarchy Process”, International Journal of Information Engineering and Electronic Business (IJIEEB), Vol. 6, Issue 4, pages 20, 2014.
27. S. K. Rai, V. Singh, et al., “A novel model for supply chain management of perishable goods for Indian retail industry using CSR activity and contribute to green environment”, VSRD International Journal of Business and Management Research, USA, Vol. 3 No. 5, 181 -190, 2013.
28. S. K. Rai, V. Singh, et al., “Perishable food inventory management: A retailer’s perspective”, International Journal of Business and General Management, USA, Vol. 2, Issue 2,, 1 -10, 2013.
29. S. K. Rai, V. Singh and A. Vaish, “Retail ownership influences on consumer buying preference an empirical study of Indian Consumer”, Arabian Journals of Business & Management Review ISSN: 2224-8358, Vol. 9, 106 – 115, 2012.



30. Gunjan Srivastava, Anil Kumar Ransom, Monica Lal, Shashikant Rai, Monark Bag ,Vrijendra Singh, Kannan Govindan, "Demand Function for Perishable Items based on Deterioration, Seasonal Variability and Shelf Space", International Journal of Business Performance and Supply Chain Modelling (ISSN-1558-9401), 2012.(accepted)
31. P Agarwal, M Sahai, V Mishra, M Bag, V Singh, "A Review of Multi-Criteria Decision Making Techniques for Supplier Evaluation and Selection", International Journal of Industrial Engineering Computations (ISSN 1923-2926). GrowingScience Publication, Volume 2, Number 4, 801-810, October 2011. (*Scopus, More than 90 citations*)
32. Abhishek Krishna, Santosh Kumar Smmarwar, JaiKumar Meena , Monark Bag, V. Singh , "Insider threat: a potential challenges for the information security domain", International Journal for Business, Strategy & Management, Vol.1, no. 1, pp. 1-8, 2011.
33. A. Khare, V. Singh, S. Arora, N. Jain & A. Verma, "Designing Competitive Strategy using CRM for Indian Primary Education", Int. Journal of Indian Culture and Business Management, ISSN (Online): 1753-0814, ISSN (Print): 1753-0806, Vol. 3, No. 4, 466-487, 2010.
34. A. Khare, V. Sehgal, D. Dhal, S. Agarwal, V. Singh, "Technology as a Driver to Indian Ready- made Garment Supply Chains", International Journal of Logistics Systems and Management, ISSN (Online): 1742-7975, ISSN (Print): 1742-7967, Vol. 8, No. 1(19), 47-65, 2010. (*Scopus*)
35. Khare & V. Singh, "Service Quality through mCRM Applications in Indian Courier Industry", Pragyaan, Journal of Management, Institute of Management Studies, Dehradun ISSN No. : 0974-5505, Vo. 8, Issue 2, 2009.(*National*)

#### **International Conferences:**

36. Preetam Suman, Pallavi Gupta, Philip B Kasey, Neera Saxena, Yogesh Choudhary, Vrijendra Singh, M Radhakrishna, "Identification of trespasser from the signatures of buried single mode fiber optic sensor cable", India Conference (INDICON), 2015 Annual IEEE, pp 1-6, Dec. 17, 2015.
37. Arti Gupta, Anurika Vaish, Vrijendra Singh, "An exploratory study on factors affecting retention of talented professionals in Indian IT industry", 8th Doctoral Thesis Conference 2015, BS Hyderabad, April 23-24, 2015. (*National*)
38. Mishra, Vaibhav, Singh, Vrijendra, "Analyzing the gap in the adoption of Internet Banking Services: Managers' perspective", Business and Information Management (ICBIM), 2nd International Conference on, 42- 46, IEEE, 2014.
39. Jatav, Vinod Kumar, Singh, Vrijendra, "Mobile WiMAX network security threats and solutions: A survey", Computer and Communication Technology (ICCCT), International Conference on, 135- 140, IEEE, 2014.
40. Jatav, Vinod Kumar, Singh, Vrijendra, "Collaborative Attack Model at Physical Layer of Mobile WiMAX Network", Computational Intelligence and Communication Networks (CICN), International Conference on, 787-792, IEEE, 2014.
41. Suman, Preetam, Karan, Subhdeep, Singh, Vrijendra, Maringanti, R, "Algorithm for Gunshot Detection Using Mel-Frequency Cepstrum Coefficients (MFCC)", Proceedings of Ninth International Conference on Wireless Communication and Sensor Networks, 155-166, Springer India, 2014.
42. V Mishra, V Singh, "IBAAM: A Model for Bridging the Gap between Bank Managers' and Customers' Views on Adoption and Acceptance of Internet Banking", International Conference- World Congress on "Business, Finance, Marketing and Industrial Management for Sustainable Development", JNU, 2013
43. Soumajit Ghosh, Avanish Vaish, Pratima Tripathi, Manish Singh, Monark Bag, V. Singh, "An analytical study to determine the demographic, cultural and seasonal effect on the consumption behaviors of vegetables and fruits in India", 5th international conference of management and behavioral sciences, June 23-24, 2012.

44. A Kumar, AK Rai, AK Shrivastava, D Yadav, M Bag, V Singh, "Software Piracy Prevention through SMS Gateway", Computer Networks and Intelligent Computing: 5th International Conference on Information Processing, ICIP 2011, Bangalore, India, August 5-7, 2011.
45. Amit Mishra, Mayank Agarwal, Kaushal Kisore Gautam, Monark Bag, V. Singh, "Present and Future Scenario of ICT Based e-Education in Rural India", First CSI Rajasthan State IT Convention and National Conference, Institutions Conference, Computer Society of India, Udaipur Chapter-2011. (Proceeding Published by Himanshu Publications, ISBN 987-81-7906-280-7, pp 8-13), May 17 – 19, 2011.
46. Mohit Agrawal, Subhashish Roy, Pratika Mishra, Vrijendra Singh, "Novel Mobile Payment Architecture with Intelligent Risk Modeling", International Conference on Informatics, Cybernetics, and Computer Applications (ICICCA2010), July 19-21, 2010.
47. P. Sharma and V. Singh, "Enhanced Speed of Bacteriorhodopsin based Photonic Switch", International Conference on Optics and Photonics (ICOP), Organized by Central Scientific Instruments Organizations (CSIO), CSIR, Chandigarh, Oct.30- Nov.1, 2009
48. V Singh, N Meena, "Engine Fault Diagnosis using DTW, MFCC and FFT", Proceedings of the First International Conference on Intelligent Human Computer Interaction, Springer India, 2009.
49. N. Meena and V. Singh, "Engine Fault diagnosis using DTW, MFCC and FFT", Proceedings of the First International Conference on Intelligent Human Computer Interaction, IIIT Allahabad, Jan. 20 – 23, Springer India, 2009.
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