


Title	Dr.	Name	UMESH KUMAR SINGH	Photograph 
Department		COMPUTER SCIENCE		
Designation		Reader & Director		
Address		INSTITUTE OF COMPUTER SCIENCE VIKRAM UNIVERSITY, UJJAIN (MP)- 456010		
Phone- Office		0734 2511475		
Residence		0734 2515192		
Mobile		9926018114		
E-Mail		umeshsingh@rediffmail.com		

Educational Qualifications

Degree	Institution	Year
Ph.D. Computer Science	Devi Ahilya University, Indore	2006
MCA	Barkatullah University, Bhopal	1994
B.Sc.	Vikram University, Ujjain	1989
PGDCA	Vikram University, Ujjain	1991

Career Profile

2010 – till date: **Director**, Institute of Computer Science, Vikram University, Ujjain.

2011- 2011: **Founder Director**, School of Engineering & Technology, Vikram University, Ujjain.

2007 – till date: **Reader**, Institute of Computer Science, Vikram University, Ujjain.

2004-2006: **Director**, Mahakal Institute of Management (MIM), Ujjain

2006-2006: **Dean Academics**, Mahakal Institute of Technology (MIT), Ujjain

2003-2006: **Dean Administration**, Mahakal Institute of Technology (MIT), Ujjain

2002 – 2006: **Principal**, Mahakal Institute of Computer Sciences, Ujjain

2002 – 2006: **Professor**, Mahakal Institute of Computer Sciences, Ujjain

1998 – 2002: **Director**, Institute of Computer Science, Vikram University, Ujjain.

1996 – 2002: **Lecturer**, Institute of Computer Science, Vikram University, Ujjain.

1995 – 1996: **Engineer (E & T)**, CMC Limited (Govt. of India Enterprise), New Delhi

Administrative Assignment

4th January, 2010 – till date: **Director**, Institute of Computer Science, Vikram University, Ujjain.

2013- till date: **Chairman**, Board of Studies of Computer Science, Vikram Uni., Ujjain

2012- till date: **Chairman**, Departmental Research Committee, Vikram University, Ujjain
 2011- 2011: **Founder Director**, School of Engineering & Technology, Vikram University, Ujjain.
 2010 : **Deputy Registrar I/c (Exam.)**, Vikram University, Ujjain
 2010 : **Director I/c, College Development Council**, Vikram University, Ujjain
 2010- 2013: **Chairman**, Board of Studies of Computer Science, Vikram University, Ujjain
 2009-2010 : **Assistant Proctor**, Vikram University, Ujjain
 2004-2006: **Director**, Mahakal Institute of Management (MIM), Ujjain
 2006-2006: **Dean Academics**, Mahakal Institute of Technology (MIT), Ujjain
 2003-2006: **Dean Administration**, Mahakal Institute of Technology (MIT), Ujjain
 2002 – 2006: **Principal**, Mahakal Institute of Computer Sciences, Ujjain
 1998 – 2002: **Director**, Institute of Computer Science, Vikram University, Ujjain.

Area of Interest/ Specialization

- Information and Network Security

Subjects Taught

- Data Structures & Algorithm Design
- Data Communication & Computer Networks
- Computer Network Security
- Data Base Management Systems

Publication Profile

Research Papers:

(A). Journal Papers:

International:

1. Sukheja D. & Singh Umesh Kumar, Novel Distributed Query Optimization Model and Hybrid Query Optimization Algorithm, 2013, International Journal of Computer Applications, 75(17), 22-32, ISSN: 0975 – 8887
2. Mewada Shivlal, Singh Umesh Kumar & Sharma P.K., A Novel Security Based Model for Wireless Mesh Networks, International Journal of Scientific Research in Network Security & Research, 2013, 1(1), 11-15, ISSN 2321–3256 (Online)
3. Mewada Shivlal, Singh Umesh Kumar & Sharma P.K., Security Enhancement in Cloud

- Computing, International Journal of Scientific Research in Computer Science and Engineering, 2013, 1(1), 31-17, ISSN 2320–7639 (Online)
4. Piplode R., Sharma P. & Singh Umesh Kumar, Study of Threats, Risk and Challenges in Cloud Computing, International Journal of Scientific Research in Computer Science and Engineering, 2013, 1(1), 26-30, ISSN 2320–7639 (Online)
 5. Singh Umesh Kumar, Phuleriya K. & Laddhani L. , Study and Analysis of Reliable MAC Protocols for Wireless Sensor Networks, International Journal of Computer Science and Information Technologies, 2012, 3(3), 3884-3887, ISSN: 09753826 [Online]; 09754660 [Print], doi : 10.5121/ijcsit
 6. Singh Umesh Kumar, Phuleriya K., Bunkar K. & Bhumarkar S., Exploration of Wireless Sensor Networks Technology and Development,2012, 1(1), 69-72, ISSN: 2278-6856
 7. Singh Umesh Kumar, Phuleriya K. & Yadav R., Real Time Data Communication Medium access control (RCMAC) Protocol for Wireless Sensor Networks (WSNs), International Journal of Emerging Technology and Advanced Engineering,2012,2(5), 123-127, ISSN: 2250–2459 (Online)
 8. Singh Umesh Kumar, Phuleriya K. & Laddhani L., Study and Analysis of MAC Protocols Design Approach for Wireless Sensor Networks, International Journal of Advanced Research in Computer Science and Software Engineering, 2012, 2(4), 79-83, ISSN: 2277 128X
 9. Sukheja Deepak & Singh Umesh Kumar, Conceptual approach of Query Optimization for Distributed Databases applications, International Journal of Advanced Research in Computer Science,2012,3(2), 246-248 ISSN 0976 – 5697, Impact Factor: 0.569
 10. Tripathi, A. and Singh Umesh Kumar, Estimating risk levels for vulnerability categories using CVSS, Int. J. Internet Technology and Secured Transactions, Inderscience Publishers, 2012,4(4), 272-289, ISSN:1748-569X
 11. Choukse D., Kanellopoulous D. & Singh Umesh Kumar, Developing secure web applications, Int. J. Internet Technology and Secured Transactions, Inderscience Publishers, 2012,4(3),221-236, ISSN:1748-569X, DOI: 10.1504/IJTST.2012.047969
 12. Pandya B., Singh Umesh Kumar, Bunkar K. & Dixit K., An Overview of Traditional Multiplicative Data Perturbation, Int. J. of Advanced Research in Comp. Science & Software Engineering,2012, 2(3), 424-428, ISSN: 2277 128X
 13. Tripathi, A. and Singh Umesh Kumar, Aggregate Analysis of Security Surveys in Quest of Current Information Security Landscape, International Journal of Computer Applications, 2012,51(17), 41-47, ISSN: 0975 – 8887, Impact Factor 0.814
 14. Mewada Shivilal, Singh Umesh Kumar & Sharma P.K., Simulation Based Performance Evaluation of Routing Protocolsfor Mobile Ad-hoc Networks (MANET), International Journal of Computer Science and Information Technology & Security, 2012,2(4),728-732, ISSN: 2249-9555(Online), 2250-1355(Print)
 15. Mewada Shivilal and Singh Umesh Kumar, Performance Analysis of Secure Wireless Mesh Networks, Res. J. Recent Sci, 2012, 1(3), 80-85, ISSN 2277-2502

16. Singh Umesh Kumar, Mewada S., Laddhani L. & Bunkar K., An Overview and Study of Security issues & Challenges in Mobile Ad-hoc Networks, International Journal of Computer Science & Information Security.2011,9(4),106-111, ISSN: 1947-5500
17. Singh Umesh Kumar & Mewada S., Security Issues & Challenges in Wireless Mesh Networks, International Journal of Advanced Research in Computer Science,2011, 2(5), 301-304, ISSN 0976 – 5697, Impact Factor: 0.569
18. Tripathi, A. and Singh Umesh .Kumar, Analyzing Trends in Vulnerability Classes across CVSS Metrics, International Journal of Computer Applications, 2011,36(3),38-44, ISSN: 0975 – 8887, Impact Factor 0.814
19. Tripathi A. & Singh Umesh Kumar, A Proposal for Common Vulnerability Classification Scheme Based on Analysis of Taxonomic Features in Vulnerability Databases, International Journal of Computer Science and Information Security, 2011, 9(6), 106-111, ISSN: 1947-5500, Impact Factor: 0.423
20. Singh Umesh Kumar, Mewada S. & Laddhani L, Distributed Architecture for Backbone Area Security of Wireless Mesh Networks, International Journal of Advanced Research in computer Science, 2011,2(3), 191-195, ISSN 0976 – 5697, Impact Factor: 0.569
21. Singh Umesh Kumar, Pandya B. & Dixit K., An overview on privacy preserving data mining methodologies, International Journal of Engineering Trends & Technology, 2011, 2(2), 11-15, ISSN: 2231-5381
22. Choukse D., Singh Umesh Kumar & Kanellopoulous D, An Intelligent anti-phishing solution: password-transaction secure window, Int. J. Internet Technology and Secured Transactions, Inderscience Publishers, 2011, 3(3), 279-292, ISSN:1748-569X, DOI:10.1504/IJITST.2011.041296
23. Sukheja D. & Singh Umesh Kumar, A Novel Approach of Query Optimization for Distributed Database Systems, International Journal of Computer Science Issues, 2011,8(4),307-312, ISSN (online): 1694-0814, Impact Factor: 0.242
24. Sukheja D. & Singh Umesh Kumar, Architecture of shared-nothing cluster to fast accessing and ensure the availability of data in distributed database environment, International Journal of Advanced Research in Computer Science, 2011,2(3), 572-575, ISSN 0976 – 5697, Impact Factor: 0.569
25. Mewada S., Singh Umesh Kumar & Sharma P., Security Based Model for Cloud Computing, International Journal of Computer Networks and Wireless Communications, 2011, 1(1), 13-19 , ISSN: 2250 - 3501 (Online), 2277 - 5307 (Print), Impact Factor: 0.274
26. Mewada S. & Singh Umesh Kumar, Measurement Based Performance of Reactive and Proactive Routing Protocols in WMN, International Journal of advanced research in Computer Science and Software Engineering, 2011, 1(1), 1-4, ISSN: 2277 128X
27. Choukse D, Singh Umesh Kumar., Role Based Authentication Schemes for Security Automation, International Journal of Computer Theory and Engineering, 2011, 3(1), 58-63, ISSN: 1793-8201, DOI: 10.7763/IJCTE

28. Choukse D., Singh Umesh Kumar, Sukheja D., Shahpurkar R., Implementing New Age Authentication Techniques using Open-ID Security Automation, International Journal of Computer Science and Information Security, 2010, 7(2), 15-21, ISSN: 1947-5500, Impact Factor 0.423
29. Sukheja D. & Singh Umesh Kumar, Query Optimizer Model for Performance Enhancement of Data Mining Based Query, International Journal of Computer Science & Communication, 2010, 1(1), 235-237, ISSN: 0973-7391, DOI : 10.5121/ijwest. 2011.2103. 34, Impact Factor : 0.47
30. Kaul M., Choukse D. & Singh Umesh Kumar, A modified approach for Implementation of an efficient padding scheme in digital signature system, International Journal of Web & Semantic Technology, 2010, 1(2), 23-33, ISSN: 0975 - 9026 (Online) 0976- 2280 (Print)
31. Singh Umesh Kumar, A.K. Ramani & N.S. Chaudhari, On analysis and design of the enhanced firewall for Intranet security , Journal of Computer Science, New York, USA, Vol 1(2), (2005) 290-295, ISSN: 1549-3636
32. Singh Umesh Kumar, A.K. Ramani & N.S. Chaudhari, Increasing effectiveness of IDS to improve security in Intranet, American Journal of Applied Sciences, USA, Vol 2(6), (2005) 1032-1035 ISSN: 1546-9239

National:

33. Ramani A.K., M. Chandwani, Sanjay Vyas & Umesh Kumar Singh, Data warehouse and Business Intelligence Applications, Proceedings of 2nd International Conference i-Maze the IIPS Academic Summit on Knowledge Management, October 21-23, (2002)
34. Singh Umesh Kumar, Ramani A.K. & Chandel S., Application of IDS technology in the prevention of unauthorized access, Varāhmihir J. Computer and Information Sciences, Vol.2 (1&2), (2007) 143-154, ISSN: 0973-3639
35. Singh Umesh Kumar, Ramani A.K. & N.S. Chaudhari, An Intranet security model through distributed firewall architecture, Varāhmihir J. Computer and Information Sciences, Vol.1(1), (2006) 57-66, ISSN: 0973-3639
36. Singh Umesh Kumar, Tripathi A., Ramani A.K. & Chaudhari N.S., Discretionary authorization control in trusted systems, Varāhmihir J. Computer and Information Sciences, Vol.1(1), (2006) 267-276, ISSN: 0973-3639
37. Singh Umesh Kumar, Tripathi A., Ramani A.K. & Chaudhari N.S., On Effective Methodologies For Testing Intrusion Detection Systems, Varāhmihir J. Math. Sci., Vol. 6(1), (2006), 265-264, ISSN: 0972-7329
38. Singh Umesh Kumar, Tripathi A & Chandel S.S., Analysis of Revocation Techniques , Varāhmihir J. Math. Sci, Vol. 6(1), (2006) 233-245, ISSN: 0972-7329
39. S.S. Chandel & Umesh Kumar Singh, Threats to Network Security & There Sources of Attacks, Varāhmihir J. Math. Sci, Vol. 6(1), (2006) 281-290, ISSN: 0972-7329
40. Khode S. & Singh Umesh Kumar, Knowledge Management and academic libraries, ILA Bulletin,

Vol. 42 (1), (2006) 27-31

41. Singh Umesh Kumar, A.K. Ramani & N.S. Chaudhari, Vulnerabilities classification & analysis for remedy identification for Intranet security, TechGenesis : Journal of Information Technology, Vol 2(2), (2005) 13-16.
42. Singh Umesh Kumar, A.K. Ramani & N.S. Chaudhari, Data Encryption : Securing Data over Intranet, Engineering and Environmental Sciences Journal, Vol 1(1), (2005) 28-31. ISSN 0972-9623
43. Chaudhari N.S., A.K. Ramani & Umesh Kumar Singh, On Analysis of Cryptographic Schemes and their Security, Varāhmihir J. Math. Sci, Vol 5(2), (2005), ISSN: 0972-7329
44. Singh B.K., M. Verma & Umesh Kumar Singh, Significance of GIS Database for the Management of Simhastha, Engineering and Environmental Sciences Journal, Vol 1(1), (2005) 66-70. ISSN 0972-9623.
45. Singh Umesh Kumar, A.K. Ramani & N.S. Chaudhari, Cryptographic algorithm and key sizes, Varāhmihir J. Math. Sci, Vol 5(1), (2005) 239-245, ISSN: 0972-7329
46. Singh Umesh Kumar, N.S. Chaudhari & A.K. Ramani, The information threats and security characteristics in information systems, Vikram Mathematical Journal, Vol 24, (2004) 70-81.
47. Singh Umesh Kumar, N.S. Chaudhari & A.K. Ramani, A Study on DES and possible improvements through additional rounds using S-boxes, Varāhmihir J. Math. Sci, Vol 4(1), (2004) 409-416, ISSN: 0972-7329
48. Singh Umesh Kumar, N.S. Chaudhari & A.K. Ramani, A vulnerabilities classification & study of testing of firewalls in developing of a secure Intranet, Vikram Mathematical Journal, Vol 24, (2004) 128-140.
49. Singh Umesh Kumar & S.S. Chandel, Knowledge Management for Business, Proceedings of 48th All India Library Conference on Electronic Information Environment and Library Sciences : A Contemporary Paradigm held at NIMHANS, Bangalore from January 22-25, (2003) 222-230.
50. Chaudhari N.S., Ferdiand Stefanus, Simon See and Umesh Kumar Singh, Performance of JPEG Comparison standard on sparc architecture, Varāhmihir J. Math. Sci., Vol 3(1), (2003) 451-458, ISSN: 0972-7329
51. Chaudhari N.S., Tan Teck Joo & Umesh Kumar Singh, Modeling using Neural nets based on Expand-and-Truncate Learning, Varāhmihir J. Math. Sci., Vol. 3(1),(2003) 141-158, ISSN: 0972-7329
52. Singh Umesh Kumar, N.S. Chaudhari & A.K. Ramani, Client Server Computing: A Paradigm for Business Applications , J. VIK. UNIV, SCINCE, Vol. XXVII No. 1&3, Feb. & Aug., (2001-2003) 99-106.
53. Singh Umesh Kumar, A.K. Ramani & N.S. Chaudhari, Computer & Internet Security, Varāhmihir J. Math. Sci, Vol 2 (1), (2002) 123-133, ISSN: 0972-7329
54. Singh Umesh Kumar, N.S. Chaudhari & A.K. Ramani, Security Issues and Practices on the

Intranet, Varāhmihir J. Math. Sci, Vol 1(2), (2001) 217-226, ISSN: 0972-7329.

55. Singh Umesh Kumar, Neeta Mazumzar and N.S. Chaudhari, Application of Bezier Curves in Computer Aided Geometric Design, Varāhmihir J. Math. Sci., Vol.1(1), (2001) 79-82

(B). Conference Papers:

International:

56. Singh Umesh Kumar, Knowledge Management and Management of Information, Proceedings of 10th European Conference on Knowledge Management, Università Degli Studi Di Padova, Vicenza, Italy, September 2-3, 2009
57. Sukheja Deepak & Singh Umesh Kumar, Query Processing and Optimization of Parallel Database System in Multi Processor Environments, Proc. of Sixth Asia Modelling Symposium IEEE conference, IEEE Computer Society, Bali, Indonesia May 29-31, 2012, 191-194, ISBN: 978-0-7695-4730-5, DOI 10.1109/AMS.2012.49
58. Tripathi, A. & Singh Umesh Kumar, Taxonomic Analysis of Classification Schemes in Vulnerability Databases, Proc. 6th International Conference on Computer Sciences and Convergence Information Technology, IEEE Computer Society, Seogwipo, Korea, 29 Nov - 01 Dec 2011, 686-691,
59. Tripathi, A. & Singh Umesh Kumar, Taxonomic Analysis of Classification Schemes in Vulnerability Databases, Proc. 6th International Conference on Computer Sciences and Convergence Information Technology, IEEE Computer Society, Seogwipo, Korea, 29 Nov - 01 Dec 2011, 692-697,
60. Sukheja D. & Singh Umesh Kumar, Design of Shared nothing cluster architecture for fast accessing and high availability of data in heterogeneous database environment, Proceedings of IEEE- World Congress on Information and Communication Technologies (WCICT), IEEE Computer Society, Mumbai, 11-14 December, 2011, 112-115, Print ISBN: 978-1-4673-0127-5, DOI:10.1109/WICT.2011.6141190
61. Tripathi, A. and Singh, U.K., Towards Standardization of Vulnerability Taxonomy, Proc. 2nd International Conference on Computer Technology & Development, Cairo, Egypt 2-4 Nov., 2010, IEEE Computer Society, 379-384, E-ISBN : 978-1-4244-8845-2, Print
62. ISBN: 978-1-4244-8844-5, DOI: 10.1109/ICCTD.2010.5645826 Sukheja D. & Singh Umesh Kumar , Performance evaluation of Global query execution in distributed databases through semantic query optimization technique, Proceeding of ICCA 2010-International Conference on Computer Applications, Pondicherry, India, 24-27 December, 2010, 191-196

National:

63. Singh Umesh Kumar & B.K. Singh, An Education and Training System on Intranet : A Web Based MIS Application, Proceedings of 6th Annual Convention of MP Section of ISTE and National Seminar on MIS in Technical Education , Ujjain Engineering College, Ujjain(MP), (2002) 19-22

64. Singh Umesh Kumar, Integrated Mailing System : A Network Based Communication Sytem,

Proceedings of Young Scientist Congress, 1997, Organized by G.G.D. University, Bilaspur, sponsored by MAPCOST (Madhya Pradesh Council of Science and Technology. Bhopal.(1997) **(Young Scientist Awarded Paper)**).

Books Published:

1. Umesh Kumar Singh, Sumit Jain & Arvind Maheshwari, Fundamental of Computer Science & Information Technology (ISBN: 978-93-8117-668-9), SSDN Publishers, New Delhi, 2012
2. Umesh Kumar Singh, Sumit Jain, Arvind Maheshwari & Alaknanda Bhatt, Basic Computer Engineering (ISBN: 978-81-920322-8-3), Vikas Publishers, New Delhi, 2012
3. Umesh Kumar Singh, Internet and Web Technology, Images Publication, 2002

Research Guidance

Supervision of awarded Doctoral Thesis:

1. An Approach towards improving vulnerability assessment through risk analysis, Anshu Tripathi, Awarded on 16-08-2013
2. Data Mining Applications for Educational System, Rajesh Bunkar, Awarded on 12-02-2013.

Supervision of Doctoral Thesis, under progress:

1. Design of New Hybrid Query Optimization Model for Performance Enhancement of Heterogeneous Database System, Deepak Sukheja, Thesis Submitted.
2. An Evaluation of effectiveness of Multiplicative Preserving Perturbation In Privacy Preserving Data Mining, Bhupendra Pandya
3. Design and Implementation of a Model for Role Based Access Control Mechanism for Single Sign on Web Applications, Dharmendra Chokse
4. Optimization of Mobile Ad hoc Network Routing Protocols by Effective Resource Management, Lokesh Laddhani
5. An Evaluation of Model Checking methods of some selected protocol used in MANET, Rekha Shahpurkar

Supervision of M.Phil dissertations:

S.No	Name of the candidate	Title of dissertation	Year of Award
1	Almeena Qureshi	Study on Various Aspects of the Semantic Web	2011
2	Arpita Bhatnagar	Study of Secure Communication for Internet Payment using Credit Card	2011
3	Chanchala Joshi	Evaluating the Effectiveness of the Personalized Web Search	2011

4	Dheeraj Sharma	The Study on Authentication Protocol for 3G Mobile Communication System	2011
5	Kamiya Jain	A Hybrid Technique for Efficient Medium Access Control in Wireless Sensor Networks	2011
6	Kapil Tarey	Analyzing & Comparing Privacy and Security Techniques in Personalized Web Search	2011
7	Leena Kumawat	Adaptive approach on black and gray hole attack in MANET	2011
8	Monica Bhawsar	Watermarking relational database using optimization based techniques	2011
9	Neha Nagar	Analysis of Prevention Techniques Against Side Channel Attacks on Cryptographic Software	2011
10	Nidhi Kothari	Capturing Communication inside Different Organization Using Semantic Technology	2011
11	Payal Jain	Performance Study on Location- Assisted Session Transfer for VOIP-Application	2011
12	Priya Agrawal	Recommending Effort Estimation Method for Software Project Management.	2011
13	Priyanka Gupta	Optimal Jamming Attacks and Network Defense Policies in Wireless Sensor Network.	2011
14	Rajesh Piplode	Technical security issues in cloud computing.	2011
15	Rashmi Kanungo	Communication Perspective on Automated Text Categorization.	2011
16	Richa Dave	Comparative Study on Biometric Techniques.	2011
17	Ruby Bhatt	Techniques for Logistics Regression Analysis in Data Cubes(OLAP) using Compression and Aggregation.	2011
18	Sanjay Bhumarkar	Online Aggregation with Complete Solution for Efficiently Computing and Maintaining the Ranking Cube.	2011
19	Sapna Patidar	Courses Personalization in an E-Learning Environment: An Approach for Adaptive Learning System Based on User Model.	2011
20	Shalini Tiwari	Personalized Resource Recommendation for Web Information Extraction Improving OntoAIMS.	2011
21	Shekhar Disawal	A Study on Efficiently Consumption of Energy in Cluster-Based Wireless Sensor Networks.	2011
22	Shweta Singh	Analysis of Cloud Computing as an Efficient, Effective & Secure IT Infrastructure.	2011
23	Shikha Shrivastav	An Analytical Study of Different Biometric Techniques for User Authentication.	2011
24	Shivlal Mewada	Security Issues & Challenges in Wireless Mesh Network.	2011
25	Sumanshu Sharma	Representation of Human Mind Psychology Using Design and Architectural approach in Artificial Intelligence.	2011
26	Aruna Tiwari	Improve Performance of the Delay Analysis for Wireless Networks with Single Hop Traffic Networks & General Interface Constraints.	2013
27	Ashish Kapoor	A Managed IPv6 Transitioning Architecture for Large Network Deployments	2013

28	Anil Kumar Prajapati	Techniques for Minimizing Execution Costs When Using Globally Distributed Cloud Services	2013
29	Ishwari Mukati	An Analytical Study of Opportunistic Scheduling as a New Approach	2013
30	Mamta Parmar	Analysis of Different Security and Privacy Issues in Cloud Computing	2013
31	Meeta Ved	Personalize Service Based on e-Learning Environment	2013
32	Netal Singh Parmar	Clustering and Sequential Pattern mining of Online Educational Data with the help of Collaborative tools	2013
33	Sonu Solanki	Improvement in Adaptive Routing Protocol for Bus Network	2013
34	Shweta Pahwa	Increasing Efficiency and Minimizing Cost in Constructing Topology for Rural Wireless Mesh Network	2013
35	Yogita Soni	To Produce the Location Based Services Design Framework used in Web Technologies	2013
36	Abhilasha Shrivastava	Analytical study of Key Management in Wireless mesh Networks	2013
37	Bhanu Priya Rana	A Comparative analytical study on Defensive Techniques for Security against IP Spoofing Attacks	2013
38	Chetna Parmar	Automatic E-Mail Classification using COMAR	2013
39	Kailash Chandra Phuleriya	Study and Analysis of Reliable Data Delivery in Real Time for Efficient Medium Access Control on Wireless Sensor Networks	2013
40	Neha Baglikar	Study and Analysis of different Algorithm for Association Rule Mining	2013
41	Neha Jhala	A comprehensive Analytical study of Detection Techniques against flooding Based Distributed Denial of Service Attacks	2013
42	Rakhi Sunare	Study and Analysis of Session Security on Web Based Application	2013

Supervision of MCA dissertations:

Supervised more than 200 MCA dissertations.

Conferences Organized

1. Organized a MicroSoft sponsored 10 days training program for University teachers and officers conducted at Institute of Computer Science, Vikram University, Ujjain during January 16- 25, 2012.
2. Organized an AICTE sponsored National Seminar on Security and Privacy “ at Institute of Computer Science, Vikram University, Ujjain. During February 28- March 1, 2007.
3. Organized an 8 days faculty development programme for the teachers at MIT, MICS, MIM and MIPS at MIT, Ujjain during May 8- 15, 2006.
4. Organized a 2 days faculty development programme for the teachers of MIT, MICS, MIM and MIPS at MIT, Ujjain during March 29- 30, 2003.

Conferences / Seminars etc. Attended

1. Attended an ISTE Short Term Training Programme on Energy Conservation & Audit at Ujjain Engineering College, Ujjain (MP) during April 15 -20, 2013
2. Participated in MAPCOST sponsored National Seminar on “Intellectual Property Rights” held on 21st April, 2012 at Alpine Institute of Technology, Ujjain.
3. Participated in M.P. Govt. sponsored National Conference on “Changing Scenario of Education and M.P. University Act 1973” held during 18-19 February, 2012 at Vikram University, Ujjain.
4. Attended a 10 days IT Champion Training Program held during 16-25 January, 2012 at Vikram University, Ujjain.
5. Attended an ICCA 2010 (International Conference on Computer Applications) held at Pondicherry, India on 24-27 December, 2010.
6. Attended an MTMI, USA sponsored International Conference on Global Issues in Business & Technology held at DAVV, Indore during 22-24 December, 2009
7. Attended a 10th European Conference on Knowledge Management held at Università Degli Studi Di Padova, Vicenza, Italy on 3-4, September 2009
8. Chaired technical session in 10th European Conference on Knowledge Management held at Università Degli Studi Di Padova, Vicenza, Italy on 3-4, September 2009
9. Attended a TEQIP sponsored workshop on “Intellectual Property Rights” organized by Ujjain Engineering College, Ujjain on 29th March 2009.
10. Attended a two days National Seminar, Sponsored by TEQIP on “Recent Trends in Multimedia and Animation” organized by Ujjain Engineering College, Ujjain during, April 16-17, 2007.
11. Attended a two days National Seminar – NSSCM-07, Sponsored by TEQIP on “Soft Computing Methodology” organized by Ujjain Engineering College, Ujjain during, March 19-20, 2007.
12. Attended a two days, TEQIP Sponsored Workshop on “VLSI Technology” organized by Ujjain Engineering College, Ujjain during, February 24-25, 2007.
13. Attended a 21 days UGC sponsored refresher course in Computer Science organized by Academic Staff College, Jamia Millia Islamia, New Delhi during December 7-28, 2006.
14. Attended a three days-AICTE Sponsored National Seminar on “Engg. applications and Network Security using Neural Networks and Fuzzy Logic” organized by Mahakal Institute of Technology, Ujjain during Aug. 16-18, 2006.
15. Attended a UGC Refresher Programme on “Computer Application and Knowledge Management”, School of Studies in Library and Information Science (Faculty of Information Technology), Vikram University, Ujjain, from Jan. 04-24, 2005.
16. Attended a National workshop on “Water harvesting (for Technical Education Quality

Improvement Programme [TEQIP]”, Ujjain Engineering College, May 15-17, 2005.

17. Attended an ISTE Winter School, on “ Environmental Management : Challenges in 21st Century “,Ujjain Engineering College, Ujjain, Dec., 20-31, 2004.
18. Attended an International Conference on “ Knowledge management” , International Institute of Professional Studies (IIPS), D.A.V.V., Indore, October 21-22, 2002.
19. Attended a National Seminar on “ Management Information System in Technical Education”, Ujjain Engineering College, Ujjain, I.S.T.E. sponsored, March 10-11, 2002.
20. Attended a Refresher Programme on “ Mathematical Algorithms and Computer Applications”, Academic Staff College, R.D.V.V., Jabalpur (MP)-India, March 19 to April 07, 2001.
21. Attended a Refresher Programme on “Research Methodology on Population Development and Continuing Education’ School of Studies in Continuing Education, Vikram University, Ujjain , September 6- 26, 2000.
22. Attended an AICTE-ISTE summer school on “ Microprocessor Controlled Environmental Instrumentation “Government Engineering College, Ujjain, June 7-19, 1999
23. Attended an Orientation Programme for Technical Teachers, Academic Staff College, DAVV, Indore, Nov.10, 1997 to Dec. 06, 1997.
24. Attended a Workshop on “ POWER BUILDER “ , NIIT, New Delhi, from 12-06-1995 to 16-06-1995 (as a sponsored candidate of CMC Ltd, New Delhi).

Awards and Distinctions

- ❑ Honored by “**Young Scientist Award - 1997**”, by M.P. Council of Science and Technology, Bhopal (MP).
- ❑ Awarded by “**Best Trainer** ” award by CMC Ltd. (Education and Training Division), New Delhi for recognition of efforts and devotion to duty displayed to conduct the training course “ Certificate Training programme for Banks” at Alwar (Rajasthan)..

Association with Professional Bodies

Committees and Boards

- Member of Review Committee of International Journal of Network Security.
- Member, Technical Review Committee, International Journal of Computer Science and Information Security (ISSN: 1947-5500)
- Member, Editorial Board, International Journal of Advances in Engineering & Technology (ISSN: 2231-1963).
- Member, Editorial Board, International Journal of Engineering and Innovative Technology

(ISSN:2277-3754-Online)

- Member, Editorial Board, World of Computer Science and Information Technology Journal (ISSN: 2221-0741).
- Member, Editorial Board, International Journal of Engineering, Science and Innovative Technology (ISSN:2319-5967)
- Member of Conference Committee in 14th European Conference on Knowledge Management - ECKM 2013 to be held at Kaunas University of Technology, Kaunas, Lithuania during 5-6 September 2013.
- Member of Conference Committee in 13th European Conference on Knowledge Management - ECKM 2012 held at Universidad Politécnic de Cartagena, Spain during 6-7 September 2012
- Member of Review Committee of 4th IEEE International Conference on Computer Science and Information Technolgy (ICCSIT 2011) to be held at Chengdu, China during June 10-12, 2011 (Review Code: ICCSIT-EN40009).
- Member of Review Committee of 3rd International Conference on Machine Learning and Computing (ICMLC 2011) held at Singapore during February 26-28, 2011 (Review Code: VIP-ICMLC-C01116)
- Member of Reviewer Committee (Committee Code: EN-C01116) of 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011) held at Dalian, China. August 26-27, 2011
- Member of Conference Committee in 12th European Conference on Knowledge Management - ECKM 2011 held at University of Passau, Germany during 1-2 September 2011
- Member of Technical Committee in “The 2010 International Conference on Manufacturing Science and Technology (ICMST 2010)” held at Kuala Lumpur in November 26-28, 2010.
- Member of Conference Committee in 11th European Conference on Knowledge Management - ECKM 2010, Universidade Lusíada de Vila Nova de Famalicão, Famalicão, Portugal during 2-3 September 2010.
- Member of Conference Committee in 6th International Conference on Intellectual Capital, Knowledge Management & Organisational Learning held at McGill University, Montreal, Canada during 1-2 October 2009
- Member of Conference Committee in 10th European Conference on Knowledge Management to be held at Università Degli Studi Di Padova, Vicenza, Italy during 3-4 September 2009.
- Member of Conference Committee in 9th European Conference on Knowledge Management held at Southampton Solent University, Southampton, UK during 4-5 September, 2008
- Member of Conference Committee in 8th European Conference on Knowledge Management held at

Barcelona, Spain during 6-7 September 2007.

Memberships

- Senior Member of International Association of Computer Science and Information Technology (IACSIT), Singapore
- Member of International Association of Engineers (IAENG), Hong Kong
- Member of Internet Society, Geneva, Switzerland

Other Activities

Research Interests

Computer Networks, Network & Information Security

Delivered Lectures (Selected):

Title of the invited lecture or presentation	Name of the Conference / Symposia	Place of the Conference / Symposia	Dates
New Trends in On-line data searching	Research Methodology in Social Science	MPISSR, Ujjain	05-12-2013
Online Data Searching and Use of Internet	Training Course on Research Methodology in Social Sciences for Ph. D. Research Scholars	MPISSR, Ujjain	26-02-2013
Online Data Searching and Use of Internet	Training Course on Research Methodology in Social Sciences for Ph. D. Research Scholars	MPISSR, Ujjain	05-02-2013
Use of Modern Technology in Research in	Workshop of Research Methodology	Lokmanya Tilak Science & Commerce College, Ujjain	29-01-2013
Network Security	DST Sponsored Science Camp	Awantika College, Ujjain	23-12-2012
New Trends in Information Communication System	National Training Workshop on Information Resources and Web Technology	MPISSR, Ujjain	04-10-2012
Online Data Searching and Use of Internet	Research Methodology in Social Sciences	MPISSR, Ujjain	21-03-2012
Applications of Information Communication Technologies for Libraries	National Workshop on Strategic Planning & Management of Information Resources and Technology	MPISSR, Ujjain	01-03-2012
Internet Services and Data	National Workshop on	MPISSR, Ujjain	01-03-2012

Communication	Strategic Planning & Management of Information Resources and Technology		
Metadata, Search Engines and Internet Surfing	National workshop on Scheduled Castes and Scheduled Tribes Participants to enhance basic skills in ICT	MPISSR, Ujjain	17-02-2012
Overview of Information Technology for Library Systems	National workshop on Scheduled Castes and Scheduled Tribes Participants to enhance basic skills in ICT	MPISSR, Ujjain	16-02-2012
On-liner data searching and uses of Internet	Research Methodology in Social Science	MPISSR, Ujjain	17-01-2011
Internet Searching and Metadata	National Workshop on Current Trends of Information Technology and its Applications	MPISSR, Ujjain	12-02-2010
Information Communication Technology for seeking information resources in social sciences	National Workshop on Current Trends of Information Technology and its Applications	MPISSR, Ujjain	10-02-2010
Computers: An Introduction	Access to Social Science information in Internet Era	MPISSR, Ujjain	06-02-2007
On-line Searching and E-mail Services	Access to Social Science information in Internet Era	MPISSR, Ujjain	08-02-2007
Overview of ICT	Access to Social Science information in Internet Era	MPISSR, Ujjain	08-02-2007
Computers, Data Analysis & Spreadsheets	Computer Applications in Social Sciences	MPISSR, Ujjain	10-02-2006
Working with Spreadsheets	Computer Applications in Social Sciences	MPISSR, Ujjain	10-02-2006
Computers: An Introduction	Access to Social Science information in Internet Era	MPISSR, Ujjain	10-01-2005
Overview of Information & Communication Technology	Access to Social Science information in Internet Era	MPISSR, Ujjain	10-01-2005
On-line Searching and E-mail Services	Access to Social Science information in Internet Era	MPISSR, Ujjain	12-01-2005
Computers and Data Analysis	Computer Applications in Social Sciences	MPISSR, Ujjain	13-12-2004
Internet Uses for Social Sciences	Computer Applications in Social Sciences	MPISSR, Ujjain	19-12-2004
Internet Uses for Social Sciences	Computer Applications in Social Sciences	MPISSR, Ujjain	19-12-2004
Internet Uses in Social Sciences	Computer Applications in Social Sciences	MPISSR, Ujjain	22-02-2004
Introduction to Computers	Computer Applications in Social Sciences	MPISSR, Ujjain	20-03-2003
Data and Data Transfer using MS Excel	Computer Applications in Social Sciences	MPISSR, Ujjain	20-03-2003
Introduction to Computers	Computer Applications in	MPISSR, Ujjain	06-01-2003

	Social Sciences		
File, data transfer and spread sheets	Computer Applications in Social Sciences	MPISSR, Ujjain	07-01-2003
Overview of Information & Communication Technology	Access to Social Science information in Internet Era	MPISSR, Ujjain	07-08-2002
On-line Searching and E-mail Services	Access to Social Science information in Internet Era	MPISSR, Ujjain	08-08-2002
Computers: An Introduction	Access to Social Science information in Internet Era	MPISSR, Ujjain	18-06-2001
Overview of Information & Communication Technology	Access to Social Science information in Internet Era	MPISSR, Ujjain	19-06-2001
On-line Searching and E-mail Services	Access to Social Science information in Internet Era	MPISSR, Ujjain	20-06-2001
Role of Computers in Research Methodology	Research Methodology on Population Development and Continuing Education	S.S. in Continuing Education, Vikram Uni., Ujjain	07-09-2000
Internet & E-Commerce	Research Methodology on Population Development and Continuing Education	S.S. in Continuing Education, Vikram Uni., Ujjain	23-09-2000

Institutional Governance Responsibilities:

Contribution to professional activity through:	Post	Responsibility	University/Institution	Year
Institutional governance responsibilities;	Member	NAAC Steering Committee	Vikram University, Ujjain	2013-onwards
	Member	Contributing as Chairman of Departmental Research Committee, responsible for admission in M.Phil. in Computer Science.	Institute of Computer Science, Vikram University, Ujjain	2012- onwards
	Member	Contributing as Member of Departmental Research Committee, responsible for admission in Ph.D. in Computer Science.	Vikram University, Ujjain	2012- onwards
	Member	Contributing in University Technical Committee	Vikram University, Ujjain	2012
	Member	Contributing in University Library Committee	Vikram University, Ujjain	2010
	Chief Coordinator	Contributed in organizing a 10 days training program conducted by MicroSoft at Institute of Computer Science for University teachers and officers	Vikram University, Ujjain	2012

	Member	Contributed as member of a committee constituted to look after the overall process of inviting guest faculties for the session 2012-2013.	Vikram University, Ujjain	2012
	Chairman	Contributed as Chairman of Registration Committee for the 19 th & 20 th Convocations of Vikram University, Ujjain	Vikram University, Ujjain	2012 2010
	Enquiry Officer	Contributed as Enquiry Officer	Vikram University, Ujjain	2011
	Superintendent	Contributed as Superintendent to conduct semester examinations for the session 2010-11.	Vikram University, Ujjain	2011
	Chairman	Contributed as a Chairman of Screening Committee Constituted by Hon. Vice Chancellor of Vikram University, Ujjain to scrutinize application forms of applicants applied for Contract teachers in Institute of Pharmacy, V.U., Ujjain.	Vikram University, Ujjain	2011
	Member	Contributed as a member of the Committee constituted to prepare proposal of School of Engineering and Technology, Vikram University, Ujjain to send to AICTE, New Delhi.	School of Engineering & Technology, Vikram University, Ujjain	2011
	Member	Contributed as member of Advisory Committee of School of Engineering & Technology, Vikram University, Ujjain.	School of Engineering & Technology, Vikram University, Ujjain	2011
	Member	University's Higher Purchase Committee.	Vikram University, Ujjain	2011-2012 2010
	Member	E-Governance Committee, responsible to implement E-Governance system in University	Vikram University, Ujjain	2011-onwards
	Member	University Flying Squad	Vikram University, Ujjain	2010
	Member	Research Degree Committee of Computer Science responsible to register candidates for Ph.D. admission in Computer Science subject.	Vikram University, Ujjain	2010
	Member	Contributed as Member of Editorial Team of Vikram	Vikram University, Ujjain	2010-onwards
	Member	Contributed as Member of Editorial Team of Vikram	Vikram University, Ujjain	2009-2010

	Member	Newsletter (A biannual news letter of Vikram University	Vikram University, Ujjain	2009
	Member	Contributed in compiling and preparing of University's At a Glance brochure	Vikram University, Ujjain	2009-2010
	Chairman	Academic Council of University.	Vikram University, Ujjain	2009
	Coordinator	Contributed as Chairman of Committee constituted for Physical verification and inspection of TULIP system of Vikram University, Ujjain.	Vikram University, Ujjain	2009
	Member	Contributed as Coordinator to resolve problems and impart training to all the HOD's/Directors, employees of Vikram University, Ujjain in respect to On Line processing of post metric scholarship for SC/ST/OBC category started in the year 2009-10	Vikram University, Ujjain	1998-2002 2007- Cont.
	Member	Examination Committee of Computer Science	Vikram University, Ujjain	1998-2002 2007- Cont.
	Coordinator	Result Committee of Computer Science	Institute of Computer Science, Vikram University, Ujjain	1996-1998
	Placement I/c	Coordinated various batches of MCA Programme as Programme Co-ordinator at Institute of Computer Science, Vikram University, Ujjain from July 1996 to September 1998.	Institute of Computer Science, Vikram University, Ujjain	1997-2002
Membership in Boards of Studies;	Chairman	Board of Studies in Computer Science	Vikram University, Ujjain	2013- Contd.. 2010-2013
	Member	Board of Studies in Computer Science	Barkatullah University, Bhopal	2010-onwards
	Member	Board of Studies in Computer Science	Vikram University, Ujjain	1998-2002
	Member	Board of Studies in Computer Science	Vikram University, Ujjain	2007-2009

	Member	Board of Studies in Computer Science	Devi Ahilya University, Ujjain	2007-2009
	Member	Board of Studies in Computer Science	Barkatullah University, Bhopal	
Nomination to Higher Education related committees;	Member	College Inspection Committees	Nominated by Department of Higher Education, M.P. Govt., Bhopal	1998-2002
	Member	College Inspection Committees	Nominated by Vikram University, Ujjain	1998-onwards
Contribution to profession related activities in other higher education institutions;	Dean (Academic)	Contributed as Dean (Academics) in Mahakal Institute of Technology, Ujjain from 01-02-2006 to 30-06-2006.	MIT(Mahakal Institute of Technology), Ujjain	2006
	Director I/c	Contributed as In-charge Director in Mahakal Institute of Management (MIM), Ujjain From 15-09-2004 to 22-05-2006.	Mahakal Institute of Management (MIM), Ujjain	2004-2006
	Principal	Contributed as Principal in MICS, MIT, Ujjain from 01-07-2002 to 30-06-2006..	MICS, MIT (Mahakal Institute of Technology) , Ujjain	2002-2006
	Dean (Administration)	Contributed as Dean (Administration) in MIT, Ujjain from 15-09-2002 to 30-06-2006.	MIT(Mahakal Institute of Technology), Ujjain	2002-2006
	Coordinator	Coordinated “ Software training programme for G-15” participants coming from various countries, under the training programme sponsored by Ministry of External affairs conducted at CMC Ltd., New Delhi.	CMC Ltd., New Delhi	1995-1996
	Coordinator	Coordinated various courses at CMC Ltd., New Delhi for participants (Employees) from various reputed organizations like : CPCB (Central Pollution Control Board , New Delhi), STC (State Trading Corporation, New Delhi), C-DOT (Centre for Development of Telematics), IFS (Indian Forest Services) , etc.	CMC Ltd., New Delhi	1995-1996
	Coordinator	Coordinated various Computer Training Programmes for Bank employees/officers at CMC Ltd. , New Delhi, Jaipur, Alwar and Chandigarh.	CMC Ltd., New Delhi	1995-1996

	Coordinator	Coordinated CCDP and DST coursed for Students at CMC Ltd., New Delhi.	CMC Ltd., New Delhi	1995-1996
	Coordinator	Coordinated various high-end courses like : C, C++ , Powerbuilder at CMC Ltd., New Delhi.	CMC Ltd., New Delhi	1995-1996
	Expert Member	Contributing as an subject expert member in various selection committees	Various Selection Committees	1998-onwards
	External Examiner	Contributing as an external examiner for various computer science related examinations in various Universities/ institutions	Various Universities and Institutions	1996-onwards
	Member	Governing Body	University Affiliated Colleges	2010-2012

Forthcoming Research

Information Retrieval Effectiveness, Analysis of Vulnerability trends in Computer Networks