


DR. UMESH KUMAR SINGH

Title	Dr.	Name	UMESH KUMAR SINGH	Photograph
Department	COMPUTER SCIENCE			
Designation	Director			
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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
PGDCSA	Vikram University, Ujjain	1991

Career Profile

2019 –till date, **Director**, Institute of Computer Science, Vikram Univerisy, Ujjain

2014 – 2020: **Director**, School of Engineering & Technology, Vikrm University, Ujjain

2010 – 2014: **Director**, Institute of Computer Science, Vikram University, Ujjain.

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

2007 –till date: **Associate Professor**, 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 Assignments

January 2019-till date, **Director**, Institute of Computer Science, Vikram University, Ujjain

June 2014 - 2020: **Director**, School of Engineering & Technology, Vikram University, Ujjain

January 2010 – 2014: **Director**, Institute of Computer Science, Vikram University, Ujjain.

2018-2021: **Expert Member**, Scrutiny Committee, AICTE, New Delhi

2015- 2018: **Director**, School of Distance Education, Vikram University, Ujjain.

2014-2020 : **Chairman**, Board of Studies of Engineering Sciences, Vikram Uni., 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.

2011: **Member**, E-Governance Committee, Vikram University, Ujjain

2011: **Member**, Advisory Committee of SoET, Vikram University, Ujjain

2011: **Superintendent**, Semester Examination -2011, Vikram University, Ujjain.

2011: **Member** of BOS, Comp.Sc., Many Universities of MP

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

2010: **Member**, Governing Body of MIT, Mandasour

2010-2021: **Member**, Selection/Interview Committee, Many Universities

2010-2021: **Member**, Higher Purchase Committee, Vikram University, Ujjain.

2010-2021: **Chairman**, Registration Committee in University Convocations

2010-2021: **Member**, Technical Committee, 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.

1998-2021: **Member**, Academic Council, Vikram University, Ujjain.

1998-2021: **Expert Member**, College Inspection Committee, Vikram University, Ujjain

1996-2021: **Member**, Result Committee, Vikram University, Ujjain

1996-2021: **Member**, University Examination Committee, Vikram University, Ujjain

Area of Interest/ Specialization
<ul style="list-style-type: none"> • Information and Network Security
Subjects Taught
<ul style="list-style-type: none"> • Data Structures & Algorithm Design • Data Communication & Computer Networks • Computer Network Security • Data Base Management Systems
Publication Profile
<p>Research Papers:</p>
<p>(A). Journal Papers: International:</p> <ol style="list-style-type: none"> 1. Raghuvanshi A. & Singh Umesh Kumar “Internet of Things for smart cities- security issues and challenges”, Elsevier Materials Today , December 2020 https://authors.elsevier.com/a/1cCul7tbNaHdba (Scopus Indexed) 2. Raghuvanshi A., Singh Umesh Kumar, Panse P. & Saxena M., “A Taxonomy of Various Building Blocks of Internet of Things”, International Journal of Future Generation Communication and Networking Vol. 13, No. 4, (2020), pp. 4397–4404 (Emerging SCI Indexed) 3. Raghuvanshi A., Singh Umesh Kumar, Bulla C., Saxena M. & Abadar K., “An Investigation on Detection of Vulnerabilities in Internet of Things”, European Journal of Molecular & Clinical Medicine Volume 07, Issue 10, 2020, pp. 3289–3299 (Scopus Indexed) 4. Dodiya B. & Singh Umesh Kumar, Identification of Taxonomic Features Through Assessment of Existing Taxonomies for Vulnerability Identification, International Journal of Computer Application (IJCA), ISSN 2250-1797, 174(31). Pp. 14-22. 5. Raghuvanshi A., Singh Umesh Kumar, Mohammed S., Alam S., “An Investigation of Various Applications and Related Security Challenges of Internet of Things”, Elsevier Materials Today, February 2021 (Accepted for publication) https://authors.elsevier.com/tracking/article/details.do?aid=22797&jid=MATPR&surname=Raghuvanshi (Scopus Indexed) 6. Singh Umesh Kumar & Joshi C., Scalable Approach Towards Discovery of Unknown Vulnerabilities, International Journal of Network Security, Vol.20, No.5, pp. 827-835, Sep. 2018, ISSN 1816-353X (P), ISSN 1816-3548 (O), UGC No 23213, impact factor: 1.68 7. Joshi C. & Singh Umesh Kumar, An Enhanced Framework for Identification and Risks Assessment of Zero-Day Vulnerabilities, International Journal of Applied Engineering Research, ISSN 0973-4562, UGC No.64529, Volume 13, Number 12, July 2018, pp. 10861-10870, impact factor: 0.848 8. Joshi C. & Singh Umesh Kumar, Testbed for Mitigation of Network Vulnerabilities -

- Enhancing organization's security resilience in an experimental environment, International Journal of Computer Application (IJCA), ISSN 2250-1797, UGC No. 64190, Vol. 8, No. 2, April 2018, pp. 48-62, impact factor: 3.12
9. Singh Umesh Kumar & Joshi C., Comparative Study of Information Security Risk Assessment Frameworks, International Journal of Computer Application (IJCA), ISSN 2250-1797, UGC No. 64190, Vol. 8, No. 2, April 2018, pp.82-89, impact factor: 3.12
 10. Joshi C. & Singh Umesh Kumar, Layered Architecture for Security Vulnerabilities Assessment - A Cornerstone of Effective Security Planning, International Journal of Creative Research Thoughts, ISSN: 2320-2882, UGC No. 49023, Vol 6, NO 2, April 2018, pp. 668-700, impact factor: 5.97
 11. Joshi C. & Singh Umesh Kumar, Potential Mitigation Strategies for the Common Vulnerabilities for Development of Secure Network, International Journal of Creative Research Thoughts, ISSN: 2320-2882, UGC No. 49023, Vol 6, NO 2, April 2018, pp. 896-905, impact factor: 5.97
 12. Choukse D. & Singh Umesh Kumar, Role based Access Control with Single Sign-on Architecture using web Services for LMS, International Journal of Computer Applications, 180(21) pp. 25-30, February 2018
 13. Choukse D. & Singh Umesh Kumar, To Study the Assign Authorization to Access the Object through Single Sign-On Web Services in Library Management System (LMS), International Journal of Computer Applications, 179(20), pp.34-39, February 2018
 14. Choukse D. & Singh Umesh Kumar, To Study the Performance of ACM (Access Control Model) to Identify the Security Issues and to resolve the Problem of Assign Authorization to Object Through SSO (Single Sign-On), International Journal of Computer Applications, 179(22), pp.13-18, February 2018
 15. Choukse D. & Singh Umesh Kumar, To Study the Functionality and Performance of Web Services, International Journal of Computer Applications, 180(18), pp.1-5, February 2018
 16. Choukse D. & Singh Umesh Kumar, Enterprise Web based File Management - A System Architecture and Solution, International Journal of Computer Applications, 179(12), pp. 48-51, January 2018.
 17. Shahapurkar R. & Singh Umesh Kumar, Effect of Entity Mobility Models on Reactive Protocol in Mobile Ad Hoc Networks, International Journal of Creative Research Thoughts –, 2018, 6(2), 1214-1221, ISSN: 2020-2882
 18. Shahapurkar R. & Singh Umesh Kumar, Effect of Group Mobility models on Routing Protocols in Manet, International Journal for Research in Applied Science and Engineering Technology, 2018, 6(7), 274-282, ISSN:2321-9653
 19. Shahapurkar R. & Singh Umesh Kumar, A Conceptual Study of Mobility Models in MANET, International Journal of Creative Research Thoughts, 2018, 6(2), 1116-1123, ISSN: 2320-2882
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 21. Joshi C. & Singh Umesh Kumar, Information security risks management framework – A step towards mitigating security risks in university network, Journal of Information Security and Applications, Elsevier, Vol. 35, pp. 128–137, June 2017, impact factor: 1.65.
 22. Singh Umesh Kumar & Joshi C., Information Security Risk Management Framework for University Computing Environment, International Journal of Network Security, Vol.19, No.5, pp.742-751, Sept. 2017, ISSN 1816-353X (Print), ISSN 1816-3548 (Online), impact factor: 1.68.
 23. Joshi C. & Singh Umesh Kumar, Information security risks management framework – A step towards mitigating security risks in university network, Journal of Information Security and Applications, Elsevier, Vol. 35, pp. 128–137, June 2017, impact factor: 1.65.

24. Singh Umesh Kumar & Joshi C., Information Security Risk Management Framework for University Computing Environment, International Journal of Network Security, Vol.19, No.5, pp.742-751, Sept. 2017, ISSN 1816-353X (Print), ISSN 1816-3548 (Online), impact factor: 1.68.
25. Suyash Kumar Singh, Sanjiv Tokekar, Abhishek Raghuvanshi, Umesh Kumar Singh, “Java and IoT (Internet of Things) : Automating the Industrial Economy”, International Journal of Computer Applications, vol. 175, no 1, pp. 9-13, 2017.
26. Suyash Kumar Singh, Sanjiv Tokekar, Abhishek Raghuvanshi, Umesh Kumar Singh, “Role of SCADA & IoT in Industrial Automation”, International Journal of Scientific Research and Development, vol. 5, issue 6, pp. 2149-2151, 2017.
27. Singh Umesh Kumar & Joshi C., ZDAR System: Defending Against the Unknown, International Journal of Computer Science and Mobile Computing, Vol.5 Issue.12, December- 2016, pp. 143-149, impact factor: 6.017.
28. Singh Umesh Kumar, Gaud N. & Joshi C., “A Framework for Digital Forensic Investigation using Authentication Technique to maintain Evidence Integrity”, International Journal of Computer Application (IJCA, 0975 – 8887), Volume 155, November 2016, ISBN 973-93-80883-35-9.
29. Singh Umesh Kumar, Joshi C.& Gaur N., “A Framework for Network Security Risk Level Measurement for Vulnerability Categories”, Accepted for Publication in International Journal of Computer Science Application.
30. Joshi C. & Singh Umesh Kumar, “Managing Security Risks and Vulnerabilities in University’s IT Threats Landscape”, Accepted for Publication in International Journal of Computer Science Application.
31. Joshi C. & Singh Umesh Kumar, “Analysis of Vulnerability Scanners in Quest of Current Information Security Landscape”, International Journal of Computer Application (IJCA, 0975 – 8887), Volume 146, Issue 2, July 2016, ISBN 973-93-80883-35-9, pp 1-7.
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33. Jaiswal Teena & Singh Umesh Kumar, “A Novel Security Approach for Access Model”, International Journal of Computer Application, Vol.138, No.9, 2016, pp 25-30.
34. Pandya B., Singh Umesh Kumar & Dixit K., “Impact of known Input Output attacks in Euclidean Distance preserving perturbation for privacy Preserving Data Mining”, International Journal of Emerging Research in Management & Technology, Volume 4, Issue 4 ISSN: 2278-9359, pp 110-114
35. Pandya B., Singh Umesh Kumar & Dixit K., “A Robust Privacy Preservation by Combination of Additive and Multiplicative Data Perturbation for Privacy Preserving Data Mining”, International Journal of Computer Applications (0975 – 8887), Volume 120, Issue.1, June 2015, ISBN 973-93-80883-35-9, pp 25-28.
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39. B.Pandya,U.K.Singh and K. Dixit, "A Comparative Study of Multiplicative Data Perturbation techniques for privacy Preserving Data Mining, International Journal of Advanced Research in Computer Engineering and Technology(IJARCET), 2015, (4), 1387-1393.
40. Pandya B., Singh Umesh Kumar & Dixit K., "Impact of known Input Output attacks in Euclidean Distance preserving perturbation for privacy Preserving Data Mining", International Journal of Emerging Research in Management &Technology ISSN: 2278-9359, Volume 4, Issue 4, April 2015, pp 110-114.
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- and Analysis of MAC Protocols, *International Journal of Computer Networking Wireless and Mobile Communications (IJCNWMC)*, 2014, 4(2), 107-114, ISSN(E): 2278-9448
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 54. Pandya B., Singh Umesh Kumar & Dixit K., Performance of Euclidean Distance Preserving Perturbation for K-nearest Neighbor Classification, *International Journal of Computer Applications*, 2014, 105(2), 34-36, ISSN: 0975 – 8887
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 57. Pandya B., Singh Umesh Kumar & Dixit K., An analysis of Projection Based Multiplicative Data Perturbation for K-means Clustering, *International Journal of Computer Science and Information Technologies*, 2014, 5 (6), 8067-8069, ISSN: 0975 – 9646.
 58. Pandya B., Singh Umesh Kumar & Dixit K., An Evaluation of Projection Based Multiplicative Data Perturbation for KNN Classification, *International Journal of Science and Research (IJSR)*, 2014,3(12), 681-684, ISSN: 2319-7064
 59. Pandya B., Singh Umesh Kumar, Dixit K. & Bunkar K., Performance of Multiplicative Data Perturbation for Privacy Preserving Data Mining, *International Journal for Research in Applied Science and Engineering Technology*, 2014, 2(7), 1-6, ISSN: 2321-9653
 60. Pandya B., Singh Umesh Kumar & Dixit K., “Effectiveness of Multiplicative Data Perturbation for Perturbation for Privacy Preserving Data Mining” *International Journal of Advanced Research in Computer Science(IJARCS)*, 2014, 5(6) 112-115.
 61. Pandya B., Singh Umesh Kumar & Dixit K., “An Analysis of Euclidean Distance Preserving Perturbation for Privacy Preserving Data Mining” *International Journal for Research in Applied Science and Engineering Technology (IJRASET)*, 2(10), 2014.
 62. Pandya B., Singh Umesh Kumar & Dixit K., “Performance of Euclidean Distance Preserving Perturbation for K-Means Clustering” *International Journal of Advanced Scientific and Technical Research*, 2014, 5(4), 282-289.
 63. Sukheja D. & Singh Umesh Kumar, Novel Distributed Query Optimization Model and Hybrid Query Optimization Algorithm, *International Journal of Computer Applications*, 2013, 75(17), 22-32, ISSN: 0975 – 8887
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- International Journal of Scientific Research in Computer Science and Engineering, 2013, 1(1), 31-17, ISSN 2320-7639 (Online)
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 73. 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
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 78. Mewada Shivilal, Singh Umesh Kumar & Sharma P.K., Simulation Based Performance Evaluation of Routing Protocols for 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).
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- 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
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National:

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103. 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
104. Khode S. & Singh Umesh Kumar, Knowledge Management and academic libraries, *ILA Bulletin*, Vol. 42 (1), (2006) 27-31
105. 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.
106. 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
107. 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
108. 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.
109. 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
110. 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.
111. 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
112. 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.
113. 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.*
114. 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
115. 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

116. 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.
117. 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
118. 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.
119. 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:

120. Raghuvanshi A. & Singh Umesh Kumar, “Applications and Future Challenges in Internet of Things for Making India Self-Reliant”, Young Scientists’ Conference under India International Science Festival (IISF) organized by Ministry of Science and Technology and Ministry of Earth Sciences in association with Vijnana Bharati (VIBHA), 22-25 December 2020.
121. Raghuvanshi A., Singh Umesh Kumar & Beuria M., “Applicability of Blockchain towards Mitigation of Distributed Denial of Service Attack in IoT”, Accepted in 3rd IEEE International Conference on Emerging Smart Computing and Informatics, ESCI-2021, 05-07 March 2021 (Will be published in IEEE Explore) (Scopus Indexed)
122. Raghuvanshi A. & Singh Umesh Kumar, "Internet of Things in Healthcare -Applications, Issues and Challenges" BITCON 2020 conference, on 20 November 2020 organized by BIT Durg.
123. Raghuvanshi A. & Singh Umesh Kumar, “Internet of Things for smart cities- security issues and challenges”, AICTE Sponsored International Conference on Advances in Communications, Computing and Embedded Systems, (ISBN 13:978-81-930222-9-0) 18-19 September 2020 , Gokaraju Rangaraju Institute of Engineering and Technology, Telangana, India
124. Singh Umesh Kumar & Joshi C., Quantitative Security Risk Evaluation using CVSS Metrics by Estimation of Frequency and Maturity of Exploit, Proceedings of the World Congress on Engineering and Computer Science 2016 Vol I WCECS 2016, San Francisco, USA, October 19-21, 2016, ISBN: 978-988-14047-1-8, ISSN: 2078-0958 (Print), ISSN: 2078-0966 (Online)
125. 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
126. 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
127. 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,

- 128.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,
- 129.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
- 130.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 ISBN: 978-1-4244-8844-5, DOI: 10.1109/ICCTD.2010.5645826
- 131.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:

- 132.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
- 133.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).

Patents Published:

1. *TRANSPARENT AND USER-FRIENDLY BILLING SYSTEM, METHOD AND PROCESS TOWARDS SMART GOVERNANCE*, The Patent Office Journal No. 09/2021 Dated: 26/02/2021, Page No: 9795,
2. *METHOD AND SYSTEM FOR PREDICTING A ZERO DAY ATTACK*, The Patent Office Journal No. 13/2021 Dated: 26/03/2021, Page No: 15319,
3. *VEHICULAR COMPONENTS HEALTH MONITORING SYSTEM AND METHOD THEREOF*, The Patent Office Journal No. 19/2021, Dated: 07/05/2021, Page No: 22342,
4. *CONCEPTUAL FRAMEWORK OF A ARTIFIIAL INTELLIGENCE IN HUMAN RESOURCE MANAGEMENT* (Indian Patent No.: 202111020974), The Patent Office Journal No: 20/2021, Dated:14/05/2021:, Page No: 23409,
5. *IOT SECURITY METHOD & SYSTEM BASED ON THE BLOCKCHAIN* , The Patent Office Journal No: 22/2021, Dated:28/05/2021:, Page No:25373.
6. *AUTOMATED MATERIAL REPLENISHMENT SYSTEM AND METHOD THEREOF*, The Patent Office Journal No: 28/2021, Dated:09/07/2021:, Page No:30676.

Research Projects Completed:

1. Completed a major Research Project entitled “*Detection and remediation of network security vulnerabilities for improved information security in organizational network*” funded by Madhya Pradesh Council of Science and Technology (MPCST), Bhopal during 2014-2017.
2. Completed a minor Research Project entitled “*Information Security Risk Management Framework for small Computing Environment*” funded by Vikram University, Ujjain during 2017-2018.
3. Completed a minor Research Project entitled “*Towards A Conceptual Framework for Mitigation of Vulnerabilities in Smart Office Devices of Internet of Things*” funded by Vikram University, Ujjain during 2018-2019.

Books Published:

1. S.S. Chandel, Umesh Kumar Singh & K.C. Phuleria, Research Methodology, Tools & Techniques (ISBN: 978-93-8315-804-1), S.K. Book Agency, New Delhi, 2014.
2. Umesh Kumar Singh & Gaurav Agrawal, Enterprise Resource Planning (ISBN: 978-81-1767-718-3-X) Shiva Prakashan, Indore, 2014.
3. Umesh Kumar Singh, Sumit Jain & Arvind Maheshwari, Fundamental of Computer Science & Information Technology (ISBN: 978-93-8117-668-9), SSDN Publishers, New Delhi, 2012
4. Umesh Kumar Singh, Sumit Jain, Arvind Maheshwari & Alaknanda Bhatt, Basic Computer Engineering (ISBN: 978-81-920322-8-3), Vikas Publishers, New Delhi, 2012
5. Umesh Kumar Singh, Internet and Web Technology, Images Publication, 2002

Research Guidance

Supervision of awarded Doctoral Thesis: 10

Supervision of Doctoral Thesis, under progress: 04

Supervision of M.Phil dissertations: 50 +

Supervision of MCA dissertations: 200+

Conferences Organized

1. Organized MPCST Sponsored “36th MP Young Scientist Congress” on virtual platform as Chief Convener during March 23-26, 2021.
2. Organized a 2 days SAKSHAM –IT Training Program, conducted by Microsoft at School of

Engineering and Technology, Vikram University, Ujjain during 27- 28, September, 2017.

3. Organized a MPCST Sponsored National Seminar on Education Commissions in India as Organizing Secretary in Vikram University, Ujjain during 13-14 December, 2014.
4. Organized a National Seminar on Emerging Trends in Computing Technologies in Vikram University, Ujjain as Conference Chairman during 24-25 August, 2014.
5. 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.
6. Organized an AICTE sponsored National Seminar on Security and Privacy “ at Institute of Computer Science, VikramUniversity, Ujjain. During February 28- March 1, 2007.
7. Organized an 8 days faculty development programme for the teachers at MIT, MICS, MIM and MIPS at MIT, Ujjain during May 8- 15, 2006.
8. 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 a National Seminar on “Recent Acts of Waste Management in India” organized by Ujjain Engineering College, Ujjain on 27th July, 2019.
2. Attended One Week Faculty Development Programme (FDP) and completed training on Cyber Security & Cyber War (CnC 2019) at Department of Systemics, School of Computer Science, University of Petroleum & Energy Studies, Dehradun during 3rd June to 7th June, 2019.
3. Attended 5 days induction/refresher programme on “Recent Trends in Remote Sensing and Geographic Information System Technologies” organized by Ujjain Engineering College, Ujjain during 11th -15th, February, 2019.
4. Attended 3 days International Virat Gurukul Sammelan organized by Cultural Department of Government of Madhya Pradesh during 28-30 April, 2018.
5. Attended Indian Higher Education Knowledge Delegation Seminars at New York University, Massachusetts Institute of Technology (MIT), Harvard University, University of Connecticut, University of Pennsylvania during August 06-12, 2018
6. Attended 2 days SAKSHAM –IT Training Program, conducted by Microsoft during 27th to 28th, September, 2017.
7. Attended Higher Education Knowledge Delegation Seminars at University of Oxford, University of Cambridge, Oxford Brookes University ,Trinity College, Queen Mary University of London, Brunel University, London during July 10-16, 2017

8. Attended a World Congress of Computer Science held in University of California, Berkeley (USA) during October 19-21, 2016 and presented research paper and also chaired a technical session in this world congress.
9. Attended an ISTE Short Term Training Programme on Energy Conservation & Audit at UjjainEngineeringCollege, Ujjain (MP) during April 15 -20, 2013
10. Participated in MAPCOST sponsored National Seminar on “Intellectual Property Rights” held on 21st April, 2012 at Alpine Institute of Technology, Ujjain.
11. 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.
12. Attended a 10 days IT Champion Training Program held during 16-25 January, 2012 at Vikram University, Ujjain.
13. Attended an ICCA 2010 (International Conference on Computer Applications) held at Pondicherry, India on 24-27 December, 2010.
14. Attended an MTMI, USA sponsored International Conference on Global Issues in Business & Technology held at DAVV, Indore during 22-24 December, 2009
15. Attended a 10th European Conference on Knowledge Management held at Università Degli Studi Di Padova, Vicenza, Italy on 3-4, September 2009
16. Chaired technical session in 10th European Conference on Knowledge Management held at Università Degli Studi Di Padova, Vicenza, Italy on 3-4, September 2009
17. Attended a TEQIP sponsored workshop on “Intellectual Property Rights” organized by UjjainEngineeringCollege, Ujjain on 29th March 2009.
18. Attended a two days National Seminar, Sponsored by TEQIP on “Recent Trends in Multimedia and Animation” organized by UjjainEngineeringCollege, Ujjain during, April 16-17, 2007.
19. Attended a two days National Seminar – NSSCM-07, Sponsored by TEQIP on “Soft Computing Methodology” organized by UjjainEngineeringCollege, Ujjain during, March 19-20, 2007.
20. Attended a two days, TEQIP Sponsored Workshop on “VLSI Technology” organized by UjjainEngineeringCollege, Ujjain during, February 24-25, 2007.
21. Attended a 21 days UGC sponsored refresher course in Computer Science organized by AcademicStaffCollege, Jamia Millia Islamia, New Delhi during December 7-28, 2006.
22. 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.
23. Attended a UGC Refresher Programme on “Computer Application and Knowledge Management”, School of Studies in Library and Information Science (Faculty of Information Technology), VikramUniversity, Ujjain, from Jan. 04-24, 2005.

24. Attended a National workshop on “Water harvesting (for Technical Education Quality Improvement Programme [TEQIP]”, UjjainEngineeringCollege, May 15-17, 2005.
25. Attended an ISTE Winter School, on “ Environmental Management : Challenges in 21st Century “,UjjainEngineeringCollege, Ujjain, Dec., 20-31, 2004.
26. Attended an International Conference on “ Knowledge management” , International Institute of Professional Studies (IIPS), D.A.V.V., Indore, October 21-22, 2002.
27. Attended a National Seminar on “ Management Information System in Technical Education”, UjjainEngineeringCollege, Ujjain, I.S.T.E. sponsored, March 10-11, 2002.
28. Attended a Refresher Programme on “ Mathematical Algorithms and Computer Applications”, AcademicStaffCollege, R.D.V.V., Jabalpur (MP)-India, March 19 to April 07, 2001.
29. 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.
30. Attended an AICTE-ISTE summer school on “ Microprocessor Controlled Environmental Instrumentation “GovernmentEngineeringCollege, Ujjain, June 7-19, 1999
31. Attended an Orientation Programme for Technical Teachers, AcademicStaffCollege, DAVV, Indore, Nov.10, 1997 to Dec. 06, 1997.
32. 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).
- ❑ Received Travel Grant from DST, New Delhi to attend 10th European Conference on Knowledge Management held at Università Degli Studi Di Padova, Vicenza, Italy during 3-4, September 2009
- ❑ Received Appreciation Award, from United States of America Department of Commerce, USA and AICTE, New Delhi for my contribution towards making “Indian Higher Education Knowledge Delegation to the USA” successful and beneficial to the academic fraternity, in August, 2018.
- ❑ Received Appreciation Award, from ASSOCHAM and AICTE, New Delhi for my contribution towards making “Indian Higher Education Knowledge Delegation to the

United Kingdom” successful and beneficial to the academic fraternity in July, 2017.

- ❑ Received Honorary Appreciation cum Felicitation Award 2017 from GR Foundations in recognition of my efforts and contribution made in development of academic and Industry participation for the betterment of education in August, 2018.
- ❑ Received Travel Grant from Vikram University, Ujjain to represent Vikram University, Ujjain in World Congress of Computer Science held in University of California, Berkeley (USA) during October 19-21, 2016 and present research paper and to chair a technical sessions in this world congress.
- ❑ Received Travel Grant from GR Foundations to represent Vikram University as a member of Indian Higher Education Knowledge Delegation to the United Kingdom and visited many renowned universities and colleges of UK including University of Oxford, University of Cambridge, Oxford Brookes University, Trinity College, Queen Mary University of London, Brunel University, London during July 10-16, 2017
- ❑ Received Travel Grant from AICTE, New Delhi to represent Vikram University as a member member of Indian Higher Education Knowledge Delegation to the United States of America (USA) and visited many renowned universities and colleges of USA including New York University, New York, Massachusetts Institute of Technology (MIT), Boston Harvard University, Boston, University of Connecticut, University of Pennsylvania.etc. during August 06-12, 2018.
- ❑ Received Excellence Award from Vikram University, Ujjain for successfully organizing “36th MP Young Scientist Congress “during March 23-26, 2021 on virtual platform as Chief Convener.
- ❑ Received Excellence Award from Vikram University, Ujjain for accelerating skill development activities and organizing “International Webinar” on 26th June, 2021 on virtual platform as Chief Convener.
- ❑ Received Excellence Award from Vikram University, Ujjain for initiating and founding/establishing 10 innovative cells in Institute of Computer Science for the benefit and betterment of the students in July, 2021.
- ❑ Received Excellence Award from Vikram University, Ujjain for accelerating the activities in University Incubation Centre and initiating and directing the startups activities and starting 9 startups in July, 2021.
- ❑ Received Appreciation Award from Vikram University, Ujjain for providing support and supervision for development of a documentary movie of Vikram University, Ujjain in July, 2021.

Association with Professional Bodies

Committees and Boards

- Member Program Committee, 3rd International Conference on Internet of Things (CIoT 2021) to be held at Toronto, Canada during 25-26 September, 2021.
- Member, Program Committee, 13th International Conference on Networks & Communications (NeCoM 2021) to be held at Dubai, UAE during February 20~21, 2021 (<https://necom2021.org/committee>).
- Member, Advisory Committee, International Conference on Emerging Trends in Science and Technology, held during 13-14, February, 2021. (<https://www.virtualcom.in/committee.php>)
- Member, Technical Committee, International Conference on Advances in Computer Engineering and Communication Systems (ICACES-2020) to be held at VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad during 13-14, August, 2021.
- Member, Technical Program Committee (TPC), 2nd International Conference on Computing, Communications and Cyber Security (IC4S-2020), held at IET, New Delhi during 3-4 December, 2020.
- Member, Technical Committee, International Conference on Advances in Computer Engineering and Communication Systems (ICACES-2021) to be held at VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad during 29-30, May, 2020.
- Keynote Speaker, National Conference on Emerging Trends in Information Technology (NCETIT-2019) organized by Kalindi College, University of Delhi during 1-2 August, 2019. (http://kalindi.du.ac.in/uploads/a2018-19/CS/NCETIT-2019%20brochure_dateextended.pdf)
- Member, Program Committee, International Conference on Energy Engineering and Smart Grids 2018 (ESG'2018) held at United Kingdom (UK) during June, 25-26, 2018. (https://www.aconf.org/conf_159220.html)
- Member, Program Committee and Invited to conduct Special Session at International Conference on Communication, Management and Information Technology (ICCMIT-2018) held at Spain during April 2-4, 2018. (<https://www.iccmit.net/>)
- Member, Advisory Committee, International Virtual Conference on Computer Science Engineering and Technology, held on Virtual Platform during 25-28, December, 2016.
- 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, Advisory Board, International Research Journal of Computer Science (ISSN: 2393-9842) (<https://irjcs.com/advisory-board>)
- Member, Technical Review Committee, International Journal of Computer Science and Information Technology (IJCSIS) (ISSN: 1947-5500) (<https://sites.google.com/site/ijcsis/ijcsis-reviewer-list>)
- Member, Review Committee, International Journal of Computer Science Issues (IJCSI), (ISSN:1694-0814) (www.ijcsi.org)
- Editor-in-Chief, International Journal of Scientific Research in Network Security and Communication (ISSN: 2321-3256) (https://www.ijsrnsc.org/edu_board.php)
- Editor-in-Chief, Indianjournal.com
<http://www.indianjournals.com/ijor.aspx?target=ijor:ijsrnsc&type=eboard>

- Executive Editor, International Journal of Scientific Research in Computer Science and Engineering (ISSN: 2321-3256) (https://www.isroset.org/journal/IJSRCSE/edu_board.php)
- Executive Editor, International Journal on Computer Sciences and Engineering (ISSN: 2347-2693) <https://www.ijcseonline.org/editorialboard.php>
- Member, Advisory Board, International Journal of Engineering Science and Innovative Technology (IJESIT) (ISSN: 2319-5967) https://www.ijesit.com/page.php?link_id=2
- 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 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 Politécnica de Cartagena, Spain during 6-7 September 2012
- Member of Review Committee of 4th IEEE International Conference on Computer Science and Information Technology (ICCSIT 2011) 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

- Life Member (LM 92178) of The Indian Society for Technical Education (ISTE) since 2013.
- 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