



Dr. Dilbag Singh

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Qualification

Degree/ Certificate	University /Board	Subject/ Specialization
Ph. D.	KU, Kurukshetra	Computer Science & Applications
M.Tech	KU, Kurukshetra	Computer Science & Engineering
MCA	KU, Kurukshetra	Computer Science & Applications
M.Sc.	KU, Kurukshetra	Physics
B.Sc.	KU, Kurukshetra	Non Medical

Experience

Teaching Experience

Position	Period
Professor, Department of Computer Science & Engineering, Ch. Devi Lal University, Sirsa.	22-08-2013 to till date

Research Area

Simulation & Modelling, Machine Learning, Data Analytics, Computer Networks

Research Interests

Simulation & Modelling, Machine Learning, Data Analytics, Computer Networks

Professional Recognition/Awards/Scholarships

Publications Papers

1. Blockchain Based Framework for Secure Data Management in Healthcare Information Systems, Annals of the Romanian Society for Cell Biology,

Dilbag Singh and Suhasini Monga, ISSN 1583-6258, Volume 25 issue 6, Page 16933-16946, 2021.

2. Machine Learning Based Hybrid Model For Heart Disease Prediction, Annals of the Romanian Society for Cell Biology, Jasjit Singh Samagh & Dilbag Singh, ISSN 1583-6258, Volume 25, Issue 4, Page 2199-2210, 2021.
3. Data Profiling Model for Assessment the Quality Traits of Master Data Management, International Journal of Recent Technology and Engineering (IJRTE), D Kaur & Dilbag Singh,, ISSN 0975-9646, Volume 5, Issue 5, Page 6712-6715, 2020.
4. A Comprehensive Review of Heart Disease Prediction Using Machine Learning, Journal of Critical Reviews, D Singh & JS Samagh, ISSN 2394-5125 Volume7, Issue 12, Page No. 343-347, 2020.
5. A Two-Tier Security Model for IoT Based Devices, Dilbag Singh and Snehlata, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN 2456-3307, Volume 7, Issue 1, Page 228-237, 2021.
6. Designing a Transformational Model for Decentralization of Electronic Health Record Using Blockchain, M Suhasini & D Singh, Lecture Notes in Networks and Systems book series (LNNS), ISSN 2367-3370, Volume 121, Page No. 753-764, 2020.
7. Image Processing Based Bacterial Colony Counter, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, B Jagga & D Singh, ISSN 2456-3307, Volume 3, Issue 1, Page No. 97-101, 2018.
8. Designing Simulator for Irrigation Management, International Journal of Engineering Trends and Technology, Rajesh Kumar & D Singh, ISSN 2231-5381, Volume 54 Number 1, Page No. 28-35, 2017.
9. Improving Shared Cache Performance Using Variation of Bit Set Insertion Policy, Lecture Notes in Networks and Systems book series (LNNS), D

Singh & D Kaur, ISSN 2367-3370, Volume 5, Page 471-479, 2017

10. [Hadoop: An Effective Framework for Big Data Analytics](#), International Journal of Computer Applications, D Singh & C Goyal, RICSIT 2016 Number-1, ISSN 975- 8887, Page No. 13-16, 2016.
11. To Design a Prototype for Fraud Detection Using CCTV Footage, Electric Explorations, Dilbag Singh & Dhanvarsha, ISSN 2454-4442, Volume 1, Page No. 72-80, 2015.
12. Design of an Efficient Data Analysis Clustering Algorithm, International Journal of Computer Engineering and Applications, Priyanka & Dilbag Singh, ISSN 2321-3469 , Volume III, Issue- 3, Page No. 86-93, 2014.
13. Gap analysis between theory and practice of software testing methodologies in Indian IT industry, International Journal of Computer Applications, D Singh, P Kumar & S Kumar, ISSN 0975 – 8887, Volume 101, No.11, Page No. 25-33, 2014.
14. Power and Data Aware Best Fit Algorithm for Energy Saving in Cloud Computing, P Kumar, International Journal of Computer Science and Information Technologies, D Singh & A Kaushik, ISSN 0975-9646, Volume 5, Issue 5, Page No. 6712-6715, 2014.
15. Designing Multifactor Secure Authentication Architecture for Financial Transactions, Asian Journal of Multidimensional Research, D Singh, K Arora, & P Punia, ISSN 2278-4853, Volume 2, Issue 6, Page No. 96-106, 2013.
16. To Design a Genetic Algorithm for Cryptography to Enhance the Security, International Journal of Innovations in Engineering & Technology, D Singh, P Rani & R Kumar, ISSN 2319-1058 Volume 2, Issue 2, Page No. 38-385, 2013.
17. A Case for Data Mining in Police Administration, International Journal of Computer Applications, S Dilbag & K Omda Kumar, ISSN 0975 – 8887, Volume 63, Issue 17, Page No. 5-9, 2013.

18. Conceptual Mapping of Insurance Risk Management to Data Mining, International Journal of Computer Applications, D Singh & P Kumar, ISSN 0975 – 8887, Volume 39, Issue 2, Page No. 13-18, 2012.
19. Clustering of Stock Data Using Dynamic Time Wrapping Hierarchical Clustering Method, Proceedings of International Conference on Innovation Strategies for Contemporary, Dilbag Singh & Rumita, ISBN 978-81-923446-1-4, Page 642-645, 2012.
20. Effect of ICT on Higher Education: Students Perception(A Case Study of Government Colleges Located in Haryana), International Journal of Science, Engineering and Computer Technology, D Singh, ISSN 2231-508X, Volume 2, Issue 1, Page No. 119-124, 2012.
21. Estimation of Software Complexity in Component based System, International Journal of Computer Applications, T Ahuja & D Singh, ISSN 0975 – 8887, Volume 59, Issue 20, Page No. 1-3, 2012.
22. Data Mining in Crime Control A Critical Analysis, Academic Discourse, D Singh & O Kumar, ISSN 2278-3296, Volume 1, Issue 2, Page No. 132-139, 2012.
23. Design of Integrated Business Intelligence System Framework for Insurance Business Processes, International Journal of Applied Information Systems, D Singh & P Kumar, ISSN 2249-0868, Volume- 3, Issue 3, Page No. 42-48, 2012.
24. Integrating Data Mining and AHP for Life Insurance Product Recommendation, Communications in Computer and Information Science, Volume 250, Springer, Berlin, Heidelberg, Pardeep Kumar and Dilbag Singh, ISBN 978-3-642-25733-9, Page No. 642-645, 2012.
25. [A study of software metrics](#), IJCEM International Journal of Computational Engineering & Management, G Singh, D Singh &, V Singh, ISSN 2230-7893, Volume 11, Page no. 22-27, 2011.

26. A Secure Private Key Encryption Technique for Data Security in Modern Cryptosystem, BVICAM's International Journal of Information Technology, D Singh & A Singh, ISSN 0973-5658, Volume 2, Issue 2, Page No. 251-254, 2010.
27. Modern Encryption Techniques: A Powerful Tool for Data Security, International Journal of Information Sciences and Application, S Dilbag & Singh A, ISSN 0974-2255, Volume 2, Issue 2, Page No. 395-399, 2010.
28. An Effective Technique for Data Security in Modern Cryptosystem, BVICAM's International Journal of Information Technology, D Singh & A Singh, ISSN 0973-5658, Volume 2, Issue. 1, Page No. 189-194, 2010.
29. Structural Studies of Annealed Neodymia-Silica Composite Synthesized by Solgel Technique, Physica B: Condensed Matter, BhajanLal, Sushil Kumara. P. Aghamkar, S. Rohilla & D Singh, ISSN 0921-4526, Volume 404, Issue 20, Page No. 3452-3456, 2009.
30. A Simulator for Assessment of Customer's Convenience and Satisfaction in Banking, RIMT Journal of Strategic Management and Information Technology, PK Suri, Dilbag Singh & Ramesh Chander, ISSN 0975-5438, Volume 5, Issue 1-4, Page No. 169-176, 2008.
31. Design of Simulator to Optimize Cash Flow Policy for ATMs in Banking Industry, Research Hunt, PK Suri, Dilbag Singh & Ramesh Chander, ISSN 0973-5569, Volume 2, Issue 3, Page No. 69-73, 2007
32. A Simulator for the Assessment of Manpower Requirement for Technology Savvy Banking, International Journal Computer Science Network Security, PK Suri, D Singh & R Chander, ISSN 1738-7906 , Volume 7, Issue 4, Page No. 322-325, 2007.
33. A simulator for Evaluating the Performance of Tech Savvy Banking in Terms of Cost/Waiting Time,

Journal of National Development, Suri PK, Dilbag Singh & R Chander, ISSN 0972-8309, Volume 7, Issue 4, Page No. 117-126, 2007.

34. A Simulator for the Profitability of Operating an ATM at a Specified Location in Banking Industry, Library Progress(International), PK Suri, Dilbag Singh & R Chander, ISSN 0970-1052, Volume 27, Issue I, Page No. 45-50, 2007.

Research Papers in Book

1. Informatics to Bioinformatics Via Data Mining, Bioinformatics Computing, Narosa Publications, New Delhi, 2007.
2. Modeling and Bioinformatics, Bioinformatics Computing, Narosa Publications, New Delhi, 2007.
3. Bioinformatics Computing Technology, Bioinformatics Computing, Narosa Publications, New Delhi, 2007.

List of Papers/Talks in Seminar /Conference

1. ***“Role of Web-based Services in Bioinformatics Research & Practice”*** in National Conference ***“BioCon-2006”*** held at Chaudhary Devi Lal University, Sirsa on February 19, 2006.
2. ***“Virtual Banking”*** in National Conference ***“Managing India Inc: Strategies for Growth and Sustainability”*** organized by Department of Commerce at Kurukshetra University, Kurukshetra on 21st April, 2005.
3. ***“Diristee- Connecting India Village by Village”*** in National Conference on ***“Managing India Inc: Strategies for Growth and Sustainability”*** held by Department of Commerce at Kurukshetra University, Kurukshetra on 21st April, 2005.
4. ***“Impact of Technology Initiatives on the Productivity”*** in an International Conference on

“Challenges in Networking & Future of e-Commerce” organized by APIITSD INDIA, Panipat on 9th & 10th April 2005.

5. **“Issues in Web Based Tourism Marketing”** in National Conference *“Performance of Tourism Industry in Relation to Public Relations Function”* organized by Doaba College, Jalandhar on March 5, 2005.
6. *“Science & Spirituality in Establishing Values”* in the *“Media Conference & Exhibition-2005”* held by Brahma Kumaris Ishwariya Vishva Vidyalya, Mt. Abu(Rajasthan).
7. **“Introducing New Concepts for Routing in Wireless Sensor Network”** in an International Conference on *“Advanced Computing & Communication Technologies, ICACCT-2007”* organized by APIITSD INDIA, Panipat on 3rd-4th November 2007.
8. **“A Simulator for Forecasting Location of ATMs in Banking Industry”** in national seminar *“Challenges & Opportunities in Information Technology”* in national seminar *“Computer Applications”* organized by HCTM, Kaithal on March 06, 2007.
9. **“A Simulator for Replacement Policy of ATMs in Banking Industry”** in national seminar *“Computer Applications”* organized by HCTM, Kaithal on March 06, 2007.
10. *“Designing Simulator for Performance Analysis of Routing Algorithms”* in an International Conference organized by Eternal University, Baru Sahib(HP) on December 17 & 18, 2011.
11. *“Application of Data Mining in Business”* in an International Conference organized by Eternal University, Baru Sahib(HP) on December 17 & 18, 2011.

12. ***Internet Security: Issues and Challenges***, State Level Seminar at CMK National College, Sirsa on 16-3-16.
13. ***Innovative Trends in Information and Communication Technology***, National Seminar at MM College, Fatehabad on 29-3-2014.
14. Recent Innovations in Computer Science and Information Technology, International Seminar at HPU, Shimla on 19-5-2017.
15. ***Hadoop an Effective Framework for Big Data Analysis***, International Seminar at HPU, Shimla on 23-5-2016.
16. ***Recent Researches and Innovations in Sciences, Management, Education and Technology***, International Seminar at JCDPG College of Education, Sirsa on 28-3-2018.
17. ***A Comparative Study of Object Oriented Software Metrics***, National Seminar at PDMCE, Bahadurgarh on 19-2-2008.
18. ***Recent Researches in Computer Science***, International Seminar at JCDV, Sirsa on 28-3-2018.
19. ***Proposed Hybrid Approach for Heart Disease Prediction Using Machine Learning***, International Conference on Recent Technologies in Science, Engineering, Humanities and Management, Cheran College of Engineering, K. Paramathi, Karur on February 26, 2021.
20. ***A Master Data Management Solution for Building Frameworks: A Constructive Way to Pilot the Implementation***, International Conference on data Analytics & Management-An Indo-European Conference(ICDAM-2021), by Jan Wyzykowski University, Poland and Panipat Institute of Engineering and Technology, India & IIS(Deemed to be University), India on June 26, 2021.