RESUME

Prof. (Dr.) Bhupesh Kumar Singh
Administrator | Academician | Research Associate

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Email: bhupesh.singh@anangpuria.com   -Professional
          dr.bhupeshkumarsingh@gmail.com - Personal
Profile: https://scholar.google.com/citations?hl=en&user=ewqKoTUAAAAJ
          https://orcid.org/0000-0002-3262-1894

Field of Specialization: Artificial Intelligence, Machine Learning, Neural Networks, Deep Learning, Sketch Recognition.

Course offered:

P.hD. Coursework
- Machine Learning and Deep Learning

Postgraduate
- Introduction to AI
- Machine Learning and Deep Learning
- Deep Learning
- Business informatics

Undergraduate
- Computer Architecture Organization
- Computer Graphics
- Data structure
- C programming

Educational Qualifications

Degree	Branch/Subject	Year	Board/University	%age/ Division
Ph.D.	Computer Science & Engineering	2013	Birla Institute of Technology, Mesra, Ranchi.	Awarded
B.E.	Computer Science & Engineering	1999	Government College of Engineering Tirunelveli, Tamil Nadu.	First
Intermediate	English, Hindi, Physics, Chemistry, Mathematics	1995	K.V Ittanagar Arunachala Pradesh	First
High School	English, Hindi, Mathematics, Science, Social Science	1993	K.V Itanagar Arunachala Pradesh	First

- **Details of Ph.D.:**

  - **Ph.D. Thesis Title:** Designing of Agent and Debugger for Complex Sketch Recognition

  - **Name of the University:** Birla Institute of Technology, Mesra, Ranchi.

  - **Supervisor Name:** Prof. Dr. G. Sahoo

Academic & Industry Experiences

S. No	Post held	Organization	Duration	
			From	**To**
1.	Principal/ Professor	B. S. Anangpuria Institute of Technology and Management Faridabad-121004, Haryana.	26-07-2021	Till Date
2.	Professor	Faculty Computing and Software Engineering, Arba Minch University, Arba Minch, Ethiopia.	01-02-2020	23-07-2021
3.	Principal Data Scientist	MindCypress, Bhogal Market, Jangpura, New Delhi, Delhi 110014	08-04-2019	30-Jan 2020
4.	Director	Satyug Darshan Institute of Engineering and Technology, Faridabad, Haryana.	24-12-2015	30-03-2019
5.	Professor and Head	Department of Computer Science and Engineering, Rawal Institute of Engineering & Technology, Faridabad, Haryana.	27-12-2013	21-12-2015
6.	Professor and Head	Department of Computer Science & Engineering, Lingaya's University, Faridabad, Haryana.	20-08-2013	26-12-2013
7.	Associate Professor	Department of Computer Science & Engineering, Lingaya's University, Faridabad, Haryana.	12-04-2012	19-08-2013
8.	Assistant Professor	Department of Computer Science & Engineering, Lingaya's University, Faridabad, Haryana.	01-07-2011	11-04-2012
9.	Sr. Lecturer (Selection Grade)	Department of Computer Science and Engineering, Lingaya's University, Faridabad, Haryana.	01-08-2007	30-06-2011
10	Sr. Lecturer	Department of Computer Science & Engineering Department, Lingaya's University, Faridabad, Haryana.	01-07-2006	30-07-2007
11	Lecturer	Department of Computer Science & Engineering Department, Lingaya's University, Faridabad, Haryana.	13-07-2004	30-06-2006
12	Lecturer	Department of Computer Science & Engineering, North Eastern Regional Institute of Science and Technology, Arunachal Pradesh.	07-06-1999	30-06-2004

Administrative /Teaching/ Industry Experience

Roles and Responsibilities

Director/Principal (SDIET & BSAITM)
- Strategic Planning and Development
- Academic Leadership and Management
- Institutional Governance and Compliance
- Accreditation and Quality Assurance
- Student Admission and Enrollment
- Industry Collaboration and Placement
- Alumni Relations and Development
- Stakeholder Engagement
- Research and Innovation
- Institutional Branding and Outreach
- Continuous Improvement

Teaching
- Teaching, research & creating a positive learning environment.
- Advising, Mentoring, assessing & evaluating students.
- Curriculum development and contributing academic governance
- Building a scholarly reputation
- Institutional service along with industry and professional networks & collaborations
- Focusing on continuous education and professional development of students
- Mentoring and supervising UG & PG students for their research projects.

Principal Data Scientist
- Defining & Exercising problem
- Implementing a solution for the problem
- Supervising & liaising with clients
- Communicating the technical concepts to non-technical stakeholders in a clear & concise manner.

Award
"Corona Warrior Award 2020" for Education (Certificate ID: IND/CWA/20/02/16)
"Certificate of appreciation for academic merit "Shikshak Samman -2022" by Nikhil Bharat Shiksha Parisad (Govt. of India)

Patent

1. **Title:** Socio Economical smart IoT based Traffic Management System
   Application Number: 202111017308
   Date of Filing: 13-04-2021

2. **Title:** A Novel Hybrid Renewable Power Platform to Harvests Wind, Solar and Water Current Power from Running Water.
   Field of Invention: Electrical
   Patent Number: 202031036679

3. **Title:** IOT-based vaccine box
   Application Number: 345772-001
   Date of Publication: 13-04-2021

4. **Title:** Development of a cost-effective artificial intelligence-based safer transport system in the mountain.
   Application Number: 367799-001
   Date: 16/07/2022

Professional Membership

- **Member,** Board of Studies, CSE, J.C. Bose University of Science & Technology, YMCA, Faridabad, Haryana.
- **Member,** Board of Studies, CSE, Dr. K. N. MODI University, Newai Rajasthan.
- **Member,** Board of Studies, CSE, Lingaya's University, Faridabad, Haryana.
- **Member,** Board of Studies, CSE, Manav Rachna University, Faridabad, Haryana.
- **AAAI** (Association for the Advancement of Artificial Intelligence).
- **INDEST AICTE** Consortium.
- **Member,** Project Management Institute (PMI), Pennsylvania, USA.
- **Honorary Member, IET**
- **Member,** International Association of Engineers (IAENG)

Sponsored Research Project Experience

- **AICTE Sponsor Lab (10.2 Lac.)**
  "Modernization and development of Computer Graphics, multimedia & Visual Lab" I was responsible for the project planning, vendor selection, inviting quotations, monitoring, and control of the project phases, quality control, and enhancement of the product.

- **Consultancy (2008-2009)**

  i. **National Power Training Institute, (Ministry of Power) (3.5 Lac)**
     Served as a Principal Consultant for the strategic process of the design and implementation of the Wireless Networking at the NPTI campus in Faridabad. I was responsible for requirement analysis, System Design, Site Survey, System installation, system testing, troubleshooting, operational support planning, Training, Project Management, RFP development, and technical expert legal services.

  ii. **Cramster.com (USA Company)**
     Serve as a subject expert for providing solutions for various subjects and projects (Computer Graphics, Multimedia, Computer Networks, and Image Processing) in the universities of America.

  iii. **BNM Engineering Pvt. Ltd. (2013-2016)**
     Serve as a Software/Hardware consultant for providing the solution for their time-to-time up-gradation. I was responsible for setting up new Labs, Network design, time to time updating IT policy, and interacting with management for the implementation of new technology, (planning, budgeting, selection of vendors, and implementation)

Research Guide

Doctor of Philosophy:

1. Jyoti Rani: Dr. K. N. Modi University- **"Continuous Convolutional Neural Network for Image Classification" (Awarded Dec. 2018)**

2. Rajesh Kumar Singh: Al-Falah University- **"A Novel approach for solving Np- Complete problem using Genetic Algorithms" (Awarded Oct. 2019)**

3. Mesay Samuel: Arba Minch University and University of Hildesheim **"Offline Handwritten Amharic Character Recognition" (Registered –June 2020)**

4. Sangeeta Rani: Manav Rachna International Institute of Research and Studies (Deemed to be University) **Anomaly Detection in Assembly line using Computer Vision Techniques (Registered –August 2021)**

Master of Technology:

2021

1. Mathewos Bergene **"Developing smart budget allocation and forecasting model for road construction projects using machine learning techniques (case of wolayita city municipality)**

2. Amanuel Tamirat Tumebo **"A machine learning model for pulses crop yield Prediction: the case of hadiya zone".**

3 Shemse Shukre Worake **"Time Series Rainfall Data Analysis and Forecasting Using Deep Learning Technique (A Case Study Arba Minch, Jinka and Mirab Abaya)".**

2020

1. Netsrework Berhanu **"Multimodal Biometric System Using Fingerprint and Voice using MATLAB computing".**

2. Gashaw Alemu **"Designing a Prediction Model for Heart Disease Using Machine Learning Algorithm".**

3. Mathewos Bergene **"Developing smart budget allocation and forecasting model for road construction projects using machine learning techniques (case of wolayita city municipality)**

2018

1. Ravi Kumar **"Cloud Computing on Gaussian Based Classification with Application to the Iris Data Set using MATLAB computing".**

2. Komal **"Recognition of Hand Movement for Paralytic Persons Based on a Neural Network"**.
3. Preeti Aggrawal **"Pattern Recognition and Dynamic Character Using Neural Network"**.

2017

1. Jitender Kumar **"Soft Computing based Adaptive Cruise Control for Intelligent Transportation Systems"**.
2. Nisha Chawla "**Classification and Clustering-Using Intelligent Techniques"**.
3. Shweta Nagar **"Image Deblurring in Presence of Gaussian and Impulsive Noise"**.

2015

1. Tanu Dua **"Image Authentication using Digital Watermarking"**
2. Brahm Singh **"Mobile Mobility with Hybrid Technology"**
3. Preeti Sehgal **"Pam vein recognition using the hybrid algorithm"**
4. Pooja Bhat **"Credit card fraud detection using K-means with Hidden Markov model**"
5. Sapna Gambhir **"Face Recognition using Genetic Algorithm"**

2014

1. Santosh Kumar **"Analysis of A Face Detection Algorithm for Embedded Implementation"**
2. Sangeeta **"Hand Gesture Recognition to control home appliances"**
3. Deepika Ishwar **"Emotion Detection Using Facial Expression"**
4. Priya **"A Novel Image Smoothing Algorithm Based on Variational Decomposition"**.
5. Anshu Sharma **"Upgrading Shortest Paths in Networks"**.

2013

1. Monika Jain **"Elimination of Gray hole attack in Vehicular Ad-hoc network"**
2. Dimpy **"Sketch Segmentation and Recognition"**.
3. Manvi Goyal **"Performance Analysis of m RSA with various Key Sizes"**.

2012

1. Renu Bala **"A Face Detection Algorithm for Embedded Implementation"**.
2. Shweeta Tiwari **"Performance Evaluation of SEP and LEACH Protocols"**.

Approved Research Guide

- Supervisor for Ph.D. Scholars at Al-Falah University, Department of Computer Science and Engineering.
- Supervisor for Ph.D. Scholars at Dr. K. N Modi University (Registration No: DKNMU/Ph.D./EN-82).
- Supervisor for Ph.D. Scholars at Manav Rachna International Institute of Research and Studies (Deemed to be University)
- Supervisor for Ph.D. Scholars at Arba Minch University, Ethiopia.

Editor & Reviewer

Springer & Scopus

- **"Book Title: "Autonomic Computing in Cloud Resource Management in Industry 4.0".**
- International Journal of Computer Science and Mobile Computing **(IJCSMC)**
- Journal of Image Processing & Pattern Recognition Progress **(STM-Journal UGC listed)** CR Journals (CR Subscription Agency)

Reviewer for Conference

- Reviver for International Conference on Machine Intelligence and Data Science Applications (MIDAS-2020)", September 04-05' 2020, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India.
- Reviver for International Conference on ICAAAIML-2020: International Conference on Advances and Applications of Artificial Intelligence and Machine Learning from 29th - 30th Oct. 2020.

Reviewer for Book & Journal
1. International Journal of Computer and Information Technology **(IJCIT)**
2. International Journal of Computer Engineering **(CIIJCE)**
3. The World of Computer Science and Information Technology Journal **(WCSIT)**
4. International Journal of Computer Applications in Technology **(IJCAT)**
5. Book Proposal: Taylor and Francis Books India Pvt. Ltd

ANNEXURE-I

LIST OF RESEARCH PUBLICATIONS

JOURNAL PUBLICATIONS

1. B. K. Singh et al. (2003). A Deep Learning Network-on-Chip (NoC) based Switch-Router to Enhance Information Security in Resource-Constrained Devices. Journal of Circuits, Systems and Computers 2023 (**SCIE, WoS and Scopus Indexed, IF:105**) https://doi.org/10.1142/S0218126624500646

2. B. K. Singh et al. (2023). Rectal Cancer Prediction and Performance Based on Intelligent Variational Autoencoders Machine Using Deep Learning on CDAS Dataset. Journal of Artificial Intelligence and Technology (**Scopus Indexed**). https://doi.org/10.37965/jait.2023.0241

3. B. K. Singh et al. Analyzing Characteristics for Two-Step SET Operation Scheme for Improving Write Time in Nanoscale Phase-Change Memory (PCM), Journal of Nanomaterials, 2022 (**SCIE, WoS and Scopus Indexed, IF: 3.791**) https://doi.org/10.1155/2022/6822884

4. B.K Singh et al. Risk-Based Access Control Mechanism for Internet of Vehicles Using Artificial Intelligence, Security and Communication Networks, 2022, (**SCIE, WoS and Scopus Indexed, IF: 1.968**) https://doi.org/10.1155/2022/3379843

5. B.K Singh et al. Deep Neural Network-Based Novel Mathematical Model for 3D Brain Tumor Segmentation, Computational Intelligence, and Neuroscience, 2022 (**SCIE, WoS and Scopus Indexed, IF: 3.120**) https://doi.org/10.1155/2022/4271711

6. B.K. Singh et al. Understanding Gene Action, Combining Ability, and Heterosis to Identify Superior Aromatic Rice Hybrids Using Artificial Neural Network, Journal of Food Quality, 2022 (**SCIE, WoS and Scopus Indexed, IF: 3.20**) https://doi.org/10.1155/2022/9282733

7. B.K. Singh et al. Decentralized Consensus Blockchain and IPFS-Based Data Aggregation for Efficient Data Storage Scheme in Journal of Security and Communication Networks, 2022 (**SCIE, WoS and Scopus Indexed, IF: 1.968**) https://doi.org/10.1155/2022/3167958

8. B.K. Singh et al. Application of Fuzzy Immune Algorithm and Soft Computing in the Design of 2-DOF PID Controller in the Journal of Discrete Dynamics in Nature and Society, 2022 (**SCIE, WoS and Scopus Indexed, IF: 1.457**) https://doi.org/10.1155/2022/5608054

9. B.K. Singh et al. Performance Analysis of Metamaterial-Inspired Structure Loaded Antennas for Narrow Range Wireless Communication in Journal of Scientific Programming, 2022 (**SCIE, WoS and Scopus Indexed, IF: 1.672**) https://doi.org/10.1155/2022/7940319

10. B.K. Singh et al. Critical Retrospection of Security Implication in Cloud Computing and Its Forensic Applications in Journal of Security and Communication Networks, 2022 (**SCIE, WoS and Scopus Indexed, IF: 1.968**)
https://doi.org/10.1155/2022/1791491

11. B.K. Singh et al. Model Optimization of Agricultural Machinery Information Control System Based on Artificial Intelligence in Journal of Food Quality, 2022 (**SCIE, WoS and Scopus Indexed, IF: 3.200**)   https://doi.org/10.1155/2022/7456650

12. B.K. Singh et al. Localization of Stroke Lesion in MRI Images Using Object Detection Techniques: A Comprehensive Review in Journal of Neuroscience Informatics, 2022 (Science Direct and DOAI Indexed, **IF: 4.6**)
https://doi.org/10.1016/j.neuri.2022.100070

13. B.K. Singh et al. Integrating LA and EDM for Improving Students Success in Higher Education Using FCN Algorithm in Journal of Mathematical Problems in Engineering, 2022 (**SCIE, WoS and Scopus Indexed, IF: 1.430**)
https://doi.org/10.1155/2022/7690103

14. B.K. Singh et al. Optimal Design of Intelligent Control System in the Communication Room Based on Artificial Intelligence in Journal of Wireless Communications and Mobile Computing, 2022 (**SCIE, WoS and Scopus Indexed, IF: 2.146**)
https://doi.org/10.1155/2022/2353789

15. B.K. Singh et al. Food quality inspection and grading using efficient image segmentation and machine learning-based system in Journal of Food Quality, 2022 (**SCIE, WoS and Scopus Indexed, IF: 3.200**)
https://doi.org/10.1155/2022/5262294

16. B.K. Singh et al. Force Platform-Based Intervention Program for Individuals Suffering with Neurodegenerative Diseases like Parkinson in Journal of Computational and Mathematical Methods in Medicine, 2022 (**SCIE, WoS and Scopus Indexed, IF: 2.809**)
https://doi.org/10.1155/2022/1636263

17. B.K. Singh et al. Internet of Things-Based Data Hiding Scheme for Wireless Communication in Journal of Wireless Communications and Mobile Computing, 2022 (**SCIE, WoS and Scopus Indexed, IF: 2.146**) https://doi.org/10.1155/2022/6997190

18. B.K. Singh et al. Artificial intelligence technology in electronic communication engineering for medical applications in The Journal of Engineering, 2022
https://doi.org/10.1049/tje2.12156

19. B. K. Singh et al. Research Article Optimal Design of Intelligent Control System in the Communication Room Based on Artificial Intelligence in Wireless Communications and Mobile Computing, 2022 (**SCIE, WoS and Scopus Indexed, IF: 2.146**)
https://doi.org/10.1155/2022/2353789

20. B. K. Singh et al. VLSI Implementation of Green Computing Control Unit on Zynq FPGA for Green Communication in Journal of Wireless Communications and Mobile Computing, 2021 (**SCIE, WoS and Scopus Indexed, IF: 2.146**) https://doi.org/10.1155/2021/4655400

21. B. K. Singh et al. Optimizing quality of service for sensor enabled Internet of healthcare systems in Journal of Neuroscience Informatics, 2021 (Science Direct and DOAI Indexed, **IF: 4.6**) https://doi.org/10.1016/j.neuri.2021.100010

22. B. K. Singh et al. Smartphone-Based mHealth and Internet of Things for Diabetes Control and Self-Management in Journal Healthcare Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 3.822**) https://doi.org/10.1155/2021/2116647

23. B. K. Singh et al. Diabetes Control and Self-Management using Smartphone-Based mHealth and Internet of Things in Journal Healthcare Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 3.822**)

24. B. K. Singh et al. Association of Lower Extremity Vascular Disease, Coronary Artery, and Carotid Artery Atherosclerosis in Patients with Type 2 Diabetes Mellitus in Journal Computational and Mathematical Methods in Medicine, 2021 (**SCIE, WoS and Scopus Indexed, IF: 2.809**) https://doi.org/10.1155/2021/6268856

25. B. K. Singh et al. Corrigendum to "An Efficient CNN for Hand X-Ray Classification of Rheumatoid Arthritis" in Journal of Healthcare Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 3.822**) https://doi.org/10.1155/2021/9808309

26. B. K. Singh et al. Prediction of IoT Traffic Using the Gated Recurrent Unit Neural Network- (GRU-NN-) Based Predictive Model in Journal of Security and Communication Networks, 2021 (**SCIE, WoS and Scopus Indexed, IF: 1.968**) https://doi.org/10.1155/2021/1425732

27. B. K. Singh et al. Aerobics Image Classification Algorithm Based on Modal Symmetry Algorithm in Journal of Computational Intelligence and Neuroscience, 2021 (**SCIE, WoS and Scopus Indexed, IF: 3.120**) https://doi.org/10.1155/2021/5970957

28. B. K. Singh et al. The Clinical Value of 3D Ultrasonic Measurement of the Ratio of Gestational Sac Volume to Embryo Volume in IoT-Based Prediction of Pregnancy Outcome in Journal of Healthcare Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 3.822**) https://doi.org/10.1155/2021/6421025

29. B. K. Singh et al. An enhanced secure deep learning algorithm for fraud detection in wireless communication in Journal of Wireless Communications and Mobile Computing, 2021 (**SCIE, WoS and Scopus Indexed, IF: 2.146**) https://doi.org/10.1155/2021/6079582

30. B. K. Singh et al. Diabetes Control and Self-Management using Smartphone-Based mHealth and Internet of Things in Journal Healthcare Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 3.822**) https://doi.org/10.1155/2021/9705309

31. B. K. Singh et al. Nonholonomic wheeled mobile robot trajectory tracking control based on improved sliding mode variable structure in Journal of Wireless Communications and Mobile Computing, 2021 (**SCIE, WoS and Scopus Indexed, IF: 2.146**) https://doi.org/10.1155/2021/2974839

32. B. K. Singh et al. An efficient CNN for hand x-ray classification of rheumatoid arthritis in Journal of Journal of Healthcare Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 3.822**) https://doi.org/10.1155/2021/6712785

33. B. K. Singh et al. Django: Web Development Simple & Fast in Journal of Annals of the Romanian Society for Cell Biology, 2021 (**Scopus Indexed**) https://www.annalsofrscb.ro/index.php/journal/article/view/6301

34. B. K. Singh et al. NSGA-III-Based deep-learning model for biomedical search engines in Journal of Mathematical Problems in Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 1.430**) https://doi.org/10.1155/2021/9935862

35. B. K. Singh et al. Efficient Single Image Dehazing Model Using Metaheuristics-Based Brightness Channel Prior in Journal of Mathematical Problems in Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 1.430**) https://doi.org/10.1155/2021/5584464

36. B. K. Singh et al. Recognition of human sentiment from image using machine learning in Journal of Annals of the Romanian Society for Cell Biology, 2021 (**Scopus Indexed**) https://www.annalsofrscb.ro/index.php/journal/article/view/4703

37. B. K. Singh et al. A Context-Aware Job Information Real-Time Delivery Framework for Pervasive Environment in Journal of Turkish Journal of Computer and Mathematics Education (TURCOMAT), 2021 (**Scopus Indexed**) https://doi.org/10.17762/turcomat.v12i3.1713

38. B. K. Singh et al. A novel optimized graph-based transform watermarking technique to address security issues in real-time application in Journal of Mathematical Problems in Engineering, 2021 (**SCIE, WoS and Scopus Indexed, IF: 1.430**) https://doi.org/10.1155/2021/5580098

39. B. K. Singh et al. Afaan Oromo Hybrid Modelling: A Case based Optimized Intelligence in Information Retrieval System's Localization in Journal of Psychology and Education, 2021.

40. B. K. Singh et al. Medication Processes Automation Using Unified Green Computing and Communication Model in Journal of Green Engineering (JGE), Vol. 10_9, 5763–5778, 2020 (**Scopus Indexed).**

41. B. K. Singh et al. A Survey on Job Information Real-Time Delivery Framework for Pervasive Environment in Journal of Turkish Journal of Computer and Mathematics Education (TURCOMAT), 2020 (**Scopus Indexed**)

42. B. K. Singh et al. Cloud-Based Outsourcing Framework for Efficient IT Project Management Practices in Journal (IJACSA) International Journal of Advanced Computer Science and

Applications.2020
https://thesai.org/Publications/ViewPaper?Volume=11&Issue=9&Code=IJACSA&SerialNo=18

43. B. K. Singh et al. Sketch Segmentation Using m-Adjacency in Journal of Advancements in Robotics, Volume 6, Issue 3, Pages 29-40, 2019.

44. B. K. Singh et al. Segmentation Using m n-Adjacency in Journal of Advancements in Robotics

45. B. K. Singh et al. Cloud computing architecture and survey in Journal of Advancements in Robotics.

46. B. K. Singh et al. A multivariate binary logistic regression modeling for assessing various risk factors that affect diabetes in International Journal of Scientific and Technology Research Volume 8, Issue 8, Pages 589-599, 2019

47. B. K. Singh et al. Binary logistic regression modeling for assessing risk factors that affect diabetes in International Journal of Scientific and Technology Research. 2019

48. B. K. Singh et al. Sketch Segmentation Using m-Adjacency in Journal of Advancements in Robotics, Volume 6, Issue 3, Pages 11, Publisher STM Journal, 2019.

49. B. K. Singh et al. To Control Home Appliances Using Hand Gesture Recognition in Journal of Artificial Intelligence Research & Advances, Volume 2, Issue 2, Pages 29-34, 2015

50. B. K. Singh et al. Emotion detection using facial expression in International Journal of Emerging Research in Management & Technology, Volume 4, Issue 6, Pages 144-151, 2015.

51. B. K. Singh et al. Basic handwritten character recognition from multi-lingual image dataset using multi-resolution and multi-directional transform in International Journal of Wavelets, Multiresolution and Information Processing, Volume 10, Issue 05, Pages 1250046, 2012. https://doi.org/10.1142/S0219691312500464

52. B. K. Singh et al. A new approach to sketch recognition using heuristic in International Journal of Computer Science and Network Security, Volume 8, Issue 2, Pages 102-108, 2008.

53. B. K. Singh et al. MAHII: Machine and Human Interactive Interface in International Journal of Computer Science and Security, Volume 2, Issue 3, 2008

54. B. K. Singh et al. Transgenic plants: Tool for integrated pest management in International Journal of Tropical Agriculture, Volume 17, Issue ¼, Pages 263-278, 1999.

CONFERENCE PROCEEDINGS/BOOK CHAPTER

55. B. K. Singh et.al. PCA-Based Machine Learning Approach for Exoplanet Detection, Proceedings of Fourth International Conference on Computer and Communication Technologies, Lecture Notes in Networks and Systems 606, https://doi.org/10.1007/978-981-19-8563-8_44 (**Scopus Indexed**)

56. B. K. Singh et al. Global Skew Detection and Correction of Document Image Based on Least Square Method and Extensive Connected Component Analysis in Journal of Innovations in Cyber Physical Systems, (Lecture Notes in Electrical Engineering) 2021 (**Scopus Indexed**) https://doi.org/10.1007/978-981-16-4149-7_38

57. B. K. Singh et al. A Comprehensive Effectual Load-Balancing Method in Cloud Computing in Innovations in Book, Cyber-Physical Systems 2021 (**Scopus Indexed**) https://doi.org/10.1007/978-981-16-4149-7_32

58. B. K. Singh et al. Emerging Paradigms and Practices in Cloud Resource Management in Book, Autonomic Computing in Cloud Resource Management in Industry 4.0, 2021 (**Scopus Indexed**) https://doi.org/10.1007/978-3-030-71756-8_2

59. B. K. Singh et al. Autonomic Computing: Models, Applications, and Brokerage in Book, Autonomic Computing in Cloud Resource Management in Industry 4.0, 2021 **(Scopus Indexed)** https://doi.org/10.1007/978-3-030-71756-8_4

60. B. K. Singh et al. Autonomic Resource Management in a Cloud-Based Infrastructure Environment in Book, Autonomic Computing in Cloud Resource Management in Industry 4.0, 2021 (**Scopus Indexed**) https://doi.org/10.1007/978-3-030-71756-8_18

61. B. K. Singh et al. Internet of Things (IoT) and Security: Challenges Ahead in Book, Data Driven Approach Towards Disruptive Technologies, 2021 (**Scopus Indexed**) https://doi.org/10.1007/978-981-15-9873-9_21

62. B. K. Singh et al. Animal Emotion Detection and Application in Book Data Driven Approach Towards Disruptive Technologies, 2021 (**Scopus Indexed**) https://doi.org/10.1007/978-981-15-9873-9_35

63. B. K. Singh et al. Analyzing Performance of GA for Its Various Parameters while Solving Multiple Knapsack Problem in 5th International Conference on: "Next Generation Computing Technologies, 2020 (**Scopus Indexed**) http://dx.doi.org/10.2139/ssrn.3672895

64. B. K. Singh et al. Performance of Genetic Algorithm for Its Various Parameters while Solving Routing Problem in 4th International Conference on: "Next Generation Computing Technologies, 2019 (**Scopus Indexed**)

65. B. K. Singh et al. Internet of Things-Based Speed and Direction Control of Four-Quadrant DC Motor in from Visual Surveillance to Internet of Things: Technology and Applications, CRC Press, 2019: **eBook: ISBN9780429297922**

66. B. K. Singh et al. IoT-Based Speed and Direction Control of Quadrant DC Motor in From Visual Surveillance to IoT: Technology and Applications, CRC Press, 2019:

67. B. K. Singh et al. A review on genetic algorithm and its applications in 2018 Second International Conference on Green Computing and Internet of Things (ICGCIoT), Pages 376-380, Publisher IEEE, 2018: 10.1109/ICGCIoT.2018.8753030 .

68. B. K. Singh et al. Freehand Sketching an Essential Tool for Unified Modelling Diagrams in Object Oriented Approaches in 2018 Second International Conference on Green Computing and Internet of Things (ICGCIoT), Pages 560-564, Publisher IEEE, **DOI:** 10.1109/ICGCIoT.2018.8753004

69. B. K. Singh et al. Indian currency recognition based on texture analysis in 2011 Nirma University International Conference on Engineering, Pages 1-5, Publisher IEEE, 2011 10.1109/NUiConE.2011.6153231

70. B. K. Singh et al. texture analysis for Indian currency 2011 Nirma University International Conference on Engineering, Pages 17-21, Publisher IEEE, 2011

71. B. K. Singh et al. Emotion recognition based on texture analysis of facial expression in 2011 International Conference on Image Information Processing, Pages 1-6, Publisher IEEE, 2011, **DOI:** 10.1109/ICIIP.2011.6108902

EDITED BOOK

1. B. K. Singh et al. Autonomic Computing in Cloud Resource Management in Industry 4.0, Springer 2021 https://doi.org/10.1007/978-3-030-71756-8

ANNEXURE-II

Conferences/Seminars/Workshops Attended

1. Webinar on "Cryptography and History of Mathematics" organized by PG Department of Mathematics GSSDGS Khalsa college Patiala, India 19 Oct 2020.

2. Online FDP on "Discrete mathematics, graph theory and its applications" Organized by Universal Engineering College, August 17-21, 2020.

3. Webinar on "Technology of Sustainability: Potential of technology in shaping the world" organized by Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, India. (College Code: 033), July 02, 2020.

4. International webinar on "Creating opportunities in the face of adversities" organized by Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, India. (College Code: 033), July 25, 2020

5. Webinar on "Emerging Trends in Data Science & IoT" Organized by Department of Computer Science & Information Technology, Arka Jain University, Jamshedpur, Jharkhand held from 20th to 25th July 2020.

6. International webinar on "Pandemic COVID-19 and Survival of Indian MSMEs" organized by Glocal School of Business & Commerce, Glocal University, Saharanpur, Uttar Pradesh, India, 28 June 2020.

7. Attended one-day webinar on "Academic Publishing and Enhancing research effectiveness " organized by Dr. Zakir Husain Library and Springer Nature, Jamia Millia Islamia Central University, New Delhi, India, June 09, 2020.

8. Attended International webinar on "Block chain and its Use Cases" Organized by Glocal School of Business and Commerce Glocal University, June 10, 2020.

9. International Congress on Information and Communication Technology (ICICT-2015), 9-10 October 2015, Udaipur.

10. International Symposium on Security in Computing and Communications (SSCC-2014), 24-27 September 2014, Greater Noida.

11. May 1st to 3rd May 2014, Jaipur, India. An International Conference on Science, Technology & Innovation in 21 Century for youth and women development and social transformation. May 2014.

12. Fourth International Conference on Contemporary Computing (IC3-2011), 8-10 August 2011, Noida.

13. International Conference on High Performance Architecture and Grid Computing (HPAGC-2011), 19-20 July 2011, Punjab. 1st International Conference on Parallel, Distributed and Grid Computing (PDGC-2010), 28-30 October 2010, Solan.

14. Third International Conference on Contemporary Computing (IC3-2010), 9-11 August 2010, Noida.

15. Fourth International Conference on Wireless Communication and Sensor Networks (WCSN-2008), 26-29 December 2008, Allahabad.

16. International Conference on Wireless Networks and Embedded Systems (WECON-2008), 18-19 October 2008, Punjab

17. Dec 18, 2009: Birla Institute of Technology, Ranchi for Research Scholars: MAHI: As a Sketching language.

18. July 11, 2008: Birla Institute of Technology, Ranchi for Research Scholars Progressive Image Reconstruction based on Multi-Scale Edge Presentation.

19. June 15, 2007: Birla Institute of Technology, Ranchi for Research Scholars Human-Computer Interface.

20. July 13, 2006: Birla Institute of Technology, Ranchi for Research Scholars, A New Approach to sketch Recognition.

21. April 3rd-4th, 2003: National Thermal Power Corporation, Vindhyanagar, Role of IT in Energy Audit and Energy Conservation at NTPC.

22. Dec 24th, 2003: National Thermal Power Corporation, Vindhyanagar Management Information Systems.

23. June 26th to 27th 2008, Gujrat, India, National Conference Emerging Trends and Information Technology Department (ETCT 2008).

ANNEXURE-III

Conferences, Seminars, Symposia and Workshops Organized/ Conducted

Convener
National Conference on 'Emerging Trends in Computer Science & Information Technology' (10th January 2015) at Rawal Institute of Engineering and Technology, Faridabad.

Chair a Session
- Session Chair for International Conference on Machine Intelligence and Data Science Applications (MIDAS-2020)", September 04-05' 2020, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India.

- Session Chair for 5th CSI National Conference & 1st CSI International Conference on Education and Research, ConfER-2012, January 12-13' 2012, Lingaya's University, Faridabad, India.

Keynote Speaker
International Conference on Advances in Science, Technology, Engineering & management- 2020 (springer).

Personal Details

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References

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