

Curriculum Vite

Dr. Bharat Bhushan Sagar

Associate Professor

Department of Computer Science and Engineering,
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Educational Qualifications:

S. No	Qualification	University/ Board	Year
1	Ph. D. (Software Engineering)	SHIATS, Allahabad in collaboration with IIT BHU	2011
2	MCA	UPTU (Now AKTU) Lucknow	2004
3	PGDM-IRPM	Board of Technical Education, Lucknow	2001

Work Experience:

- * Worked as an Assistant Professor in the department of **Computer Science and Engineering, Birla Institute of Technology, Mesra Ranchi** posted at **NOIDA Campus** (*from December 2012 to October 2023*)
- * Worked as an Associate Professor in department of **Information Technology, Ajay Kumar Garg Engineering College, Ghaziabad.** (*from March 2011 to December 2012*)
- * Worked as a Lecturer in the department of **MCA, Dr. K. N. Modi Institute of Engineering & Technology, Modinagar, Ghaziabad.** (*from December 2004 to July 2007*)

Administrative Experience:

- * **Associate Dean**, Incubation Hub, HBTU Kanpur
- * **Deputy In charge**, MOOC Studio, HBTU Kanpur

* **Placement Coordinator**, MCA Department, HBTU Kanpur

* **Ph. D Coordinator**, Birla Institute of Technology, Mesra Ranchi (Noida Campus)

Area of Interest

- ✓ Software Engineering
- ✓ Operating System
- ✓ Machine Learning
- ✓ Computer Organization
- ✓ Computer Network
- ✓ Artificial Intelligence

Research Supervision

* **Ph.D:** Awarded [07], Submitted [01], Ongoing [06]

S. No	Name of Candidate	Sole Supervisor/ Joint Supervisor	Title of PhD Thesis	University Name	Status
1	Shanthi Makka	Sole Supervisor	A New advanced Refactoring Approach for Parallelism using Heterogenous Parallel Architecture	BIT Mesra Ranchi	Awarded
2	Pankaj Gupta	Sole Supervisor	Temporal Data Mining	BIT Mesra Ranchi	Awarded
3	Satvik Vats	Sole Supervisor	Designing a platform independent model for Big Data Analytics	BIT Mesra Ranchi	Awarded
5	Shailee Lohmor	Sole Supervisor	Enhancing Prediction and Parameter Estimation of Software Reliability using Hybrid Models Based on Nature Inspired Algorithm	Bharthiar University Coimbatore,	Awarded
6	Rajbal Simon	Joint Supervisor	Measuring Agile Testing Efficiency Using Two Way Assessment Techniques	Amity University , Noida.	Awarded

7	Sampath S.	Joint Supervisor	Development and Analysis of MPI and PVM for High Speed Computation using Cluster Based Architecture	Shri Venkateshwarra University , Gajrola, Uttar Pradesh	Awarded
4	Sandeep Kaur/	Sole Supervisor	Character Recognition System for Brahmi Script Using Machine Learning Techniques	BIT Mesra Ranchi	Awarded
8	Vikas	Joint Supervisor	Anomaly Detection in Wireless Sensor Networks for Cyber Security	BIT Mesra Ranchi	Submitted
9	Sanjay Kr. Sonker	Joint Supervisor	Fog-based IoT-enabled System Security using with Machine learning	BIT Mesra Ranchi	Ongoing
10.	Md. Anas Khan	Sole Supervisor	Comparative study of character recognition of Brahmi and other ancient Indian scripts	HBTU, Kanpur	Ongoing
11.	Asit Gehlot	Joint Supervisor	e-vehicles data security using Internet of Things	HBTU, Kanpur	Ongoing
12.	Narendra Kumar	Sole Supervisor	Word recognition of Brahmi Language using Machine Learning	HBTU, Kanpur	Ongoing
13.	Deepa Katiyar	Joint Supervisor	Human peripheral nerve injury recovery diagnosis and prediction using machine learning	HBTU, Kanpur	Ongoing
14.	Praveen Rajput	Sole Supervisor	Cyber security in IoT devices	HBTU, Kanpur	Ongoing
15.	Varsha Verma	Sole Supervisor	Cyber Security using Machine learning	HBTU, Kanpur	Ongoing

M.Tech: Completed **02**, **Ongoing 02**

* **MCA & B. Tech. Projects:** Completed **20+**

Patent

1. ***“IMT-Voice Based Mobile Banking: INTELLIGENTMONEY TRANSFER USING VOICE BASED MOBILE BANKING”***, Jain Arpit; Singh Karan; Dwivedi, Rakesh

Kumar; **Sagar, Bharat Bhushan**; Vats, Satvik; Banda, Latha; Manjul, Manisha; Khan, Tayyab and Sarkar, Biplab Kumar, **Granted** on 21-10-2020 by IP-Australia, Australian Government.

2. **“A Multi node System and a Method for Big Data Analytics”**, Dr. Satvik Vats, Dr. Vikrant Sharma, **Dr. Bharat Bhushan Sagar**, Ms. Priya Singh, **Granted** on 26-10-2023 by the patent office Government of India. (Patent No. : 462171)
3. **“Multi Disease Classifier and Localizer for Chest X-Ray”**, Dr. Satvik Vats, Dr. Vikrant Sharma, Dr. Devesh Pratap Singh, Sunny Singh, Dr. Karan Singh, **Dr. Bharat Bhushan Sagar**, Amit Gupta, Navin Garg, Published on 04/02/2022 by Office Journal of the Patent Office, INDIA (Application Number: 202211004393 A)

Publications details

BOOK CHAPTERS

- [1] A. V. Senthil Kumar, Ajay Karthick M., Ahmad Fuad Hamadah Bader, Gaganpreet Kaur, Samrat Ray, Prasanna Lakshmi G., Paresh Virparia, **Bharat Bhushan Sagar**, Amit Dutta, Shadi R. Masadeh, Uma N. Dulhare, and Asadi Srinivasulu (2024); Optical Character Recognition (OCR) Using Opencv and Python: Implementation and Performance Analysis, Hyperautomation in Business and Society; IGI Global, **DOI: 10.4018/979-8-3693-3354-9.ch008**.
- [2] Satvik Vats, Vikrant Sharma, Madhvan Bajaj, Sunny Singh, **B.B. Sagar** (2025), 13 - Advanced frequent itemset mining algorithm (AFIM), Editor(s): Ali Ahmadian, Soheil Salahshour, Valentina Emila Balas, Dumitru Baleanu, In Advanced Studies in Complex Systems, Uncertainty in Computational Intelligence-Based Decision Making, Academic Press, 2025, Pages 187-201, ISBN 9780443214752, **https://doi.org/10.1016/B978-0-443-21475-2.00007-2**.
- [3] Smriti Singh; Jyoti Maurya; Eram Taslima; **Bharat B. Sagar**; R. K. Saket (2024), "Physical Reliability Methods and Design for System Reliability," in Reliability Analysis of Modern Power Systems, IEEE, 2024, pp.91-111, **doi: 10.1002/9781394226771.ch6**.
- [4] T. Naga Jothi, A. V. Senthil Kumar, Amit Dutta, Ismail Bin Musirin, L. Manjunatha Rao, G. Vanishree, Meenakshi Sharma, **Bharat Bhushan Sagar**, G. Prasanna Lakshmi, Asadi Srinivasulu, Giridhar Akula Venkata Shesha, and Veera Talukdar(2025); Customer Churn Prediction Using SVM for Finance, Essential Information Systems Service Management, IGI Global, **DOI: 10.4018/979-8-3693-4227-5.ch005**.
- [5] Vikas, Bharat Bhushan Sagar, Manisha Manjul “Anomaly Detection in Wireless Sensor Network using Generative Adversarial Network (GAN)” in [Automation and Computation](#), CRC Press, London, 2023. ISBN: 9781003333500,

- [6] Makka, S., Arora, G., & **Sagar, B. B.** (2020); Consequent Formation in Security With Blockchain in Digital Transformation, In S. Goundar, B. Bhushan, & V. Thakare (Eds.), *Impact of Digital Transformation on Security Policies and Standards* (pp. 122-144). Hershey, PA: **IGI Global**. doi:10.4018/978-1-7998-2367-4.ch008
- [7] Satvik Vats and **B B Sagar** (2019); Data Lake: A Plausible Big Data Science for Business Intelligence, in *Proceedings* (eds by B.M.K. Prasad, Karan Singh, Shyam S. Pandey & Richard O’Kennedy) 2nd International Conference on Communication and Computing Systems (ICCCS-2018), December 1-2, 2018, Gurgaon, India: **CRC Press (Taylor & Francis)** pp.442-448. (ISBN: 978-0-429-44427-2).
- [8] Gupta P., **Sagar B. B.**(2019); Decision Support System for Business intelligence using Data Mining Techniques: A case Study, *Advances in Computational Intelligence, Advances in Intelligent Systems and Computing*, Vol 988, pp. 81-94, July 11, 2019, **Springer, Singapore**. (ISBN: 978-981-13-8222-2).
- [9] Makka S., **Sagar B.B.** (2016); Simulation of a Model for Refactoring Approach for Parallelism Using Parallel Computing Tool Box. In: Satapathy S., Das S.(eds) *Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 2. Smart Innovation, Systems and Technologies*, pp 77-84, vol 51. **Springer, Cham**, First Online: 04 May 2016. (ISBN: 978-3-319-30936-2).

INTERNATIONAL JOURNALS

- [1] Vikas.; Wahi, C.; Sagar, B. B.; Manjul, M. “Trusted Energy-Aware, Hierarchical Routing (TEAHR) for Wireless Sensor Networks” *Sensors* **2025**, 25(8), 2519; <https://doi.org/10.3390/s25082519> [**SCIE**]
- [2] Vikas., Charu Wahi, Bharat Bhushan Sagar, and Manisha Manjul. “Trust Management in Wireless Sensor Networks Using Machine Learning for Detection of DDoS Attacks”. *Int J Performability Eng.*, 2025, Vol. 21, Issue (3): 157-167.doi: 10.23940/ijpe.25.03.p5.157167 [**Scopus Unpaid**]
- [3] Vikas Kumar, Charu Wahi, Bharat Bhushan Sagar, and Manisha Manjul. “Ensemble Learning Based Intrusion Detection for Wireless Sensor Network” *Environment* [J]. *Int J Performability Eng.*, 2024, 20(9): 541-551. 10.23940/ijpe.24.09.p2.541551 [**Scopus Unpaid**]
- [4] Vikas, Sagar, B. B., & Munjul, M. (2021), “Security issues in wireless sensor network –A” survey. *Journal of Discrete Mathematical Sciences and Cryptography*, 24(5),1415–1427. <https://doi.org/10.1080/09720529.2021.1932937> [**Scopus Unpaid**]
- [5] Sanjay Kumar Sonker, Vibha Kaw Raina, Bharat Bhushan Sagar, Ramesh C. Bansal

Ramesh C (2024), Fog computing-based IoT-enabled system security for electrical vehicles in the smart grid., *Electrical Engineering*, 2024 Feb , pp: 1339–1355., Issn: 1582-4594, DOI:[10.1007/s00202-024-02406-8](https://doi.org/10.1007/s00202-024-02406-8) [**SCIE (Web of Science) IF: 1.8**].

- [6] Sandeep Kaur and Bharat Bhushan Sagar, “Efficient Scalable Template-Matching Technique for Ancient Brahmi Script Image”, *Computers, Materials & Continua*, Tech Science Press, Vol. 74, Issue 1, pp. 1541-1559, 2022. [**SCI/SCIE, IF : 3.86**] <https://doi.org/10.32604/cmc.2023.032857>
- [7] Vikas, **B. B. Sagar** and Manisha Munjul, “Security issues in wireless sensor network – A survey”, *Journal of Discrete Mathematical Sciences and Cryptography*, 24:5, 1415-1427, 2021 [**UGC Care/Scopus Indexed, IF: 0.45**]. <https://doi.org/10.1080/09720529.2021.1932937>
- [8] Rajbala Singh, Deepak Kumar and Bharat Bhushan Sagar, “ Predicting Suitable Agile Method using Fuzzy AHP, *Recent Advances in Computer Science and Communications*, Vol. 14, pp 1202-1215, 2021 [**Scopus Indexed, IF: 0.85**]. <https://doi.org/10.2174/2213275912666191011154014>
- [9] Satvik Vats and B. B. Sagar (2020), "An Independent Time Optimized Hybrid Infrastructure for Big Data Analytics", published in *Modern Physics Letters B*, World Scientific. 2020. **SCI/SCIE (Web of Science)**. pp. 2050311 (24 pages), doi.org/10.1142/S021798492050311X
- [10] Vats, Satvik; Sagar, Bharat B.; Singh, Karan; Ahmadian, Ali; Pansera, Bruno A. (2020) " Performance Evaluation of an Independent Time Optimized Infrastructure for Big Data Analytics that Maintains Symmetry", *Symmetry*, Vol-12, Issue-8, pp. 1274 (15) August-2020. <https://doi.org/10.3390/sym12081274> **SCI/SCIE (Web of Science)**.
- [11] Satvik Vats and B. B. Sagar (2019), "Performance Evaluation Of K-Means Clustering on Hadoop Infrastructure," published in *Journal of Discrete Mathematical Sciences and Cryptography*, vol. 22, no. 8, pp. 1349-1363, 2019.**ESCI (Web of Science)** and **SCOPUS**. doi.org/10.1080/09720529.2019.1692444.
- [12] Sandeep Kaur, **B. B. Sagar** (2019), Brahmi character recognition based on SVM (support vector machine) classifier using image gradient features, *Journal of Discrete Mathematical Sciences and Cryptography*, 22:8, 1365-1381, DOI:10.1080/09720529.2019.1692445. (**ESCI (WoS)**, and **Scopus Indexed**).
- [13] Shailee Lohmor, B. B. Sagar (2019); Enhancing Software Reliability Prediction based on Hybrid Fuzzy k-Nearest Neighbour with Glow-worm Swarm Optimization (FKNNGSO) Algorithm, *International Journal of Recent Technology and Engineering*, Vol-7, Issue-6, March 2019, pp. 513-522. (ISSN: 22773878). (**Scopus Indexed**).

- [14] Pankaj Gupta & Bharat Bhushan Sagar (2018); Multi-Tenant Security with Virtual Network Using Mining-An Enrichment in Cloud's 'Infrastructure as a Service', Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, 03-Special Issue, pp. 1265-1277, 2018 (ISSN: 1943 023X). **(Scopus Indexed)**.
- [15] Pankaj Gupta & Bharat Bhushan Sagar (2018); Determining Weighted, Utility-Based Time Variant Relationship Rules Using Frequent Pattern Tree, Journal of Engineering and Education, Ingeniería Solidaria, Vol. 14, 2018. DOI: <https://doi.org/10.16925/v14i0.2228> (ISSN: 1069 4730). **(Emerging SCI, Web of Science)**.
- [16] Makka, S., and **Sagar, B. B.** (2017); Performance Analysis of a System that Identifies the Parallel Modules through Program Dependence Graph, International Journal of Intelligent Systems and Applications (IJISA), Vol.9, No.9, pp.37-45, 2017. DOI: 10.5815/ijisa.2017.09.05 **(ISSN: 2319 7064)**. **(Scopus Indexed)**.
- [17] S. Makka, **B. B. Sagar** (2017); An Optimization of a System for Classification of Independent modules in an application, delineated by using Program Dependence Graph, for the upcoming book, Predictive Modelling and Optimization Methods in Science and Engineering, IGI Global A chapter proposal is accepted on March -2017 **(Scopus Indexed)**.
- [18] Lohmor, S., **Sagar, B.B.** (2017); Estimating the parameters of software reliability growth models using hybrid DEO-ANN algorithm, International Journal of Enterprise Network Management, (Inder science Journal),2017 Vol.8. No.3, pp.247-269 <https://doi.org/10.1504/IJENM.2017.087437> **(ISSN: 1748 1252)**. **(Scopus Indexed)**.
- [19] **Sagar, B.B.**; Saket, R.K.; and Singh, Gurmit (2016); *Exponentiated Weibull Distribution approach based Inflection S-shaped software reliability growth model*, Ain Shams Engineering Journal, **Elsevier (Science Direct)** Vol.-7, Issue-3, 2016, pp. 973– 991. <http://dx.doi.org/10.1016/j.asej.2015.05.009> **(Scopus Indexed & SCI Expanded Journal)**. **(ISSN: 2090 4479)**.
- [20] Makka Shanthi and **Dr. B. B. Sagar** (2016); *A New Approach for Optimization of Program Dependence Graph using Finite Automata*, Indian Journal of Science and Technology, Vol.-9, Issue-38, 2016, pp.01-06. **(ISSN: 0974-5645)** **(Scopus Indexed)**.
- [21] Pankaj Gupta and **Bharat Bhushan Sagar** (2016); *Discovering Interesting Weighted Temporal Relationship Rules*, International Journal of Computer Applications, Vol.-9, Issue-19, 2016, pp. 9091-9099, **(ISSN: 0974 5572)**.
- [22] Pankaj Gupta and **B. B. Sagar (2016)**; *Discovering Weighted Calendar-Based Temporal Relationship Rules using Frequent Pattern Tree*, Indian Journal of Science and Technology, Vol 9(28), 2016, pp 1-6. **(ISSN: 0974 5645)**. **(Scopus Indexed)**.

- [23] Shailee L. Choudhary and **Dr B B Sagar** (2015); Applicability of Gene Expression Programming in Predicting Software Reliability, *International Journal of Applied Engineering Research*, Vol.10 (1), 2015, pp. 22919-22926., (**ISSN: 0973 4562**). (**Scopus Indexed**).
- [24] Shanti Makka and **Bharat Bhushan Sagar** (2014); Literature Survey on a new advanced refactoring based approach for parallelism using heterogeneous parallel architectures *International Journal of Science and Research (IJSR)*, Vol-3(5). , pp. 1-6, May 2014. (**ISSN: 2319 7064**).
- [25] Sampath S, **Bharat Bhushan Sagar** (2014); Determinism Modeling of PVM Non Deterministic Actions, *International Journal of Scientific & Engineering Research (IJSER)*, Vol.5(11), Pp: 15-20, November 2014, (**Impact factor:3.2**). (**ISSN 2229-5518**).
- [26] Sampath S, **Bharat Bhushan Sagar** (2014); Performance Evaluation of Larger Matrices Over Cluster of Four nodes using MPI, *International Journal of Research in Engineering and Technology (IJRET)*, Vol-3(11), pp.546-550, Nov 2014. URL: http://www.ijret.org/Volumes/V03/I11/IJRET_110311091.pdf , (**ISSN: 2319 1163**).
- [27] Sampath.S, **Bharat Bhushan Sagar** , Nanjesh B R (2013); Performance Evaluation and Comparison of Message Passing Interface and Parallel Virtual Machine, *International Journal of Advanced Research in Computer Science and Software Engineering*, Vol.-3 (1), pp 200-206, January 2013. (**ISSN: 2277 128X**).
- [28] Sharad Pratap Singh and **Dr. B.B. Sagar** (2013); Stuck- at Fault Detection in Combinational Network Coefficients of the RMC with fixed polarity (Reed-Muller Coefficients), *International Journal of Emerging Trends in Electrical and Electronics (IJETEE)* Vol.- 1 (3), March -2013, pp 93-96. (**ISSN: 2320 9569**).
- [29] Sharad Pratap Singh and **Dr. B.B. Sagar** (2013); Fault Detection at Minimization of Multiple Output Function of Reed-Muller Canonical Form in Logical Networks, *ISST Journal of Electrical & Electronics Engineering*. Vol.-4 (1), pp. 19-23. (**ISSN: 0976- 7363**).
- [30] **Sagar, B.B.**; Saket, R.K.;and Singh, Gurmit (2012); ATM Reliability and Risk Assessment Issues Based on Fraud, Security and Safety, *International Journal of Computer Aided Engineering and Technology*, Inderscience Publishers, Vol.-4, No.-3, pp. 272-293, 2012, World Trade Centre **USA** (**ISSN: 1757-2665**). (**Scopus Indexed**).
<http://www.inderscience.com/ijcaet> , <http://www.inderscience.metapress.com>.
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- [32] **Sagar, Bharat Bhushan**; Saket, R.K.; and Singh, Gurmit (2010); A New Inflection s- Shaped Software Reliability Growth with Weibull Approach, *IME Journal, India*.Vol.: V, No. 2, pp. 01-08, July 2010. **(ISSN: 0974-0716)**.

INTERNATIONAL CONFERENCE

- [1] Vikas, **Bharat Bhushan Sagar**, Manisha Manjul “Anomaly Detection in Wireless Sensor Network using Generative Adversarial Network (GAN)” International Conference on Automation and Computation (AutoCom-2022), pp. 45-49, <https://doi.org/10.1201/9781003333500>
- [2] Vikas., Charu Wahi, **Bharat Bhushan Sagar**, and Manisha Manjul. “Zero Trust for Secure Wireless Sensor Networks” NETCRYPT-2025 International Conference scheduled on 29th-31st May 2025. JNU, New Delhi.
- [3] Vikas, **B. B. Sagar** and M. Manjul, "Comparative Analysis of Intrusion Detection Mechanism for WSN Using ML," *2023 3rd International Conference on Technological Advancements in Computational Sciences (ICTACS)*, Tashkent, Uzbekistan, 2023, pp. 918-921, doi: 10.1109/ICTACS59847.2023.10390190.
- [4] S. K. Sonker, V. K. Raina, **B. B. Sagar** and R. C. Bansal, "A Cyber Physical Security for Electrical Vehicles using Deep learning," *2024 International Conference on Automation and Computation (AUTOCOM)*, Dehradun, India, 2024, pp. 519-523, doi: 10.1109/AUTOCOM60220.2024.10486128.
- [5] Satvik Vats and **B. B. Sagar**, "Data Lake: A Plausible Big Data Science For Business Intelligence," in *Communication and Computing Systems: Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018)*, December 1-2, 2018, Gurgaon, India, 2019: CRC Press (Taylor & Francis), pp. 442.(Scopus Indexed).
- [6] Sampath. S, **Bharat Bhushan Sagar**, C. K. Subbaraya, Nanjesh B R, “Performance Evaluation of Parallel Applications using MPI in Cluster Based Parallel Computing Architecture” accepted for International Conference on ‘Emerging Research in Computing, Information, Communication and Applications’(ERCICA-2013), ISBN No.: 9789351071020, Pp. 104-110, held on 2nd and 3rd August 2013 at Bangalore. (*Paper is also available on Elsevier Proceedings*)
- [7] **Dr. Bharat Bhushan Sagar**, Sampath S, Nanjesh B R, and Dr. C.K. Subbaraya “Development of Common Parallel Programming Platform for MPI and PVM”, 5th International conference on advances in Communication, Network and Computing, CNC- 2014, to be held on Feb 21-22, 2014, Chennai, India. (*Paper is also available on Elsevier Proceedings*)
- [8] Sampath S, Nanjesh B R, **Bharat Bhushan Sagar** , “Performance Optimization of PVM based Parallel Applications using Optimal Number of Slaves” International Conference on Reliability, Optimization and Information Technology (ICROIT-2014)” to be held on Feb 6-8, 2014, India. (*Available on IEEE explore*).

- [9] Sampath S, **Bharat Bhushan Sagar**, Nanjesh B.R, C.K Subbaraya, "Development of Common Parallel Programming Platform for MPI and PVM", accepted for International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems (ICAEES- 2014) which will be held during 23rd & 24th of April 2014 at Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari District, Tamilnadu State, India. Paper is available in AISC Springer Proceedings, pp. 1-8, Vol.325. URL <http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-81-322-2134-0>
- [10] Makka, Shanthi, and **B. B. Sagar**. "Simulation of a Model for Refactoring Approach for Parallelism Using Parallel Computing Tool Box", Published in Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 2. Springer International Publishing, 2016. (Accepted for publication on November, 2015)
- [11] Makka Shanthi and **Dr. B.B.Sagar** , "The Program Dependence Graph and its applications in refactoring ", paper has been ACCEPTED for oral presentation in and publication in International Conference on Communication and Networks (COMNET 2016) and publication in Springer AISC series. (Accepted for publication on February, 2016)
- [12] Rajbala, **Dr. B. B. Sagar**, Dr. Deepak Gupta, "Measuring Agile Testing Efficiency using Two Way Assessment Techniques: Current Status and Future Scope", 7th International Conference on Quality, Reliability, Info-com Technology and Business Operations (ICQRITBO'2015), Organized by Department of Operation Research, University of Delhi, Delhi on 28th – 30th December 2015, Proceedings Published by Springer. (*Scopus Indexed*)
- [13] **Dr. B. B. Sagar**, Pratibha Singh, S. Mallika, "Online transaction fraud detection techniques: A review of data mining approaches", paper has been ACCEPTED for oral presentation in and publication in 10th INDIACom; 3rd 2016 International Conference on Computing for Sustainable Global Development 16th – 18th March, 2016 at at Bharati Vidyapeeth's, New Delhi (*available on IEEE explore*).
- [14] **Sagar, Bharat Bhushan**; Col. Singh, Gurmit; Saket, R.K.; and Kumar, Anil (2007), "Performance Enhancement of ATM Software", *Seventh Mississippi, State-UAB Conference on Differential Equations Computational Simulations, November 1-3, 2007, Doubletree Hotel Birmingham, AL, USA.*
- [15] Singh, KunwarBahadur; Saket, R.K.; **Sagar, B.B.**; and Rai, Birendra(2009), "A New Method for Modeling of Non-linear Crosstalk in Optical Fiber", Proceeding of International Conference on Emerging & Futuristic System and Technology, LIET - Alwar, India pp 184-190., 2009.
- [16] Sampath.S, **Bharat Bhushan Sagar** ,Nanjesh B R (2013),"Evaluation of Parallel Application's Performance Dependency on RAM using Message Passing Interface"at *International Conference on Advance Engineering & Technology (ICAET-2013)*held at Mysore,Karnataka, India on 27th January

2013. pp. 09-14, ISBN: 978-93-81693-88-5.

- [17] Sampath.S, **Bharat Bhushan Sagar** ,Nanjesh B R (2013) “Performance Evaluation and Comparison of MPI and PVM using a Cluster Based Parallel Computing Architecture” at *IEEE International Conference on Circuits,Power and Computing Technologies (ICCPCT-2013) held at Noorul Islam Centre for Higher Education (Noorul Islam University [Deemed University]), Kumaracoil, Kanyakumari District, Tamilnadu State, India on 20st to 21nd March 2013, pp.1253-1258, Print ISBN:9781467349215, DOI: 10.1109/ICCPCT.2013.6529020* (Paper is available at *IEEE Xplore Digital Library*).
- [18] Sampath.S, **Bharat Bhushan Sagar** ,C.K.Subbaraya, Nanjesh B R (2013),“Performance Evaluation of Parallel Applications using MPI in Cluster Based Parallel Computing Architecture”*accepted for International Conference on ‘Emerging Research in Computing, Information, Communication and Applications’(ERCICA-2013), ISBN No.: 9789351071020, Pp. 104-110, held on 2nd and 3rd August 2013 at Bangalore. (Paper is also available on Elsevier Proceedings)*
- [19] **Dr. Bharat Bhushan Sagar**, Sampath S, Nanjesh B R, and Dr. C.K. Subbaraya “Development of Common Parallel Programming Platform for MPI and PVM”, *5th International conference on advances in Communication, Network and Computing, CNC- 2014*, to be held on Feb 21-22, 2014, Chennai, India (Paper is also available on Elsevier Proceedings)
- [20] Sampath S, Nanjesh B R, **Bharat Bhushan Sagar** , and C.K. Subbaraya “Performance Optimization of PVM based Parallel Applications using Optimal Number of Slaves” *International Conference on Advance in Computer, Electronics & Communication Technologies*, to be held on *25th January, 2014*, Bangkok, Thailand.
- [21] Sampath S, Nanjesh B R, **Bharat Bhushan Sagar** , “Performance Optimization of PVM based Parallel Applications using Optimal Number of Slaves” *International Conference on Reliability, Optimization and Information Technology (ICROIT-2014)*” held on Feb 6- 8, 2014, India. (Paper is available at *IEEE Xplore Digital Library*).
- [22] Lokendra Sharma, Dr. R. K. Saket, **Dr. B. B. Sagar**, “Software Reliability Growth Models and tools - a review”, *International Conference on Computing for Sustainable Global Development (INDIACom), 2015, held on 16th March to 18th March-2015, pp. Pages: 2057 – 2061. (Paper is available at IEEE Xplore Digital Library)*.
- [23] **Sagar B. B.** and Singh S.P., “MANET Performance Estimation Using Manhattan Distance Approach”, *IEEE International Conference on Computational Intelligence and Communication Networks (CICN-2014)*, held on 14-16 Nov. 2014, India, pp. 463-467. DOI: 10.1109/CICN.2014.108 (Paper is available at *IEEE Xplore Digital Library*).

Professional Societies:

- * Member IEEE, USA
- * Fellow **IETE** New Delhi, India
- * Life Member, **IEANG**, Hong Kong

Other Research Activities:

- **Keynote Speaker** in Three days National Seminar on “Bhartiya Vigyan Parampara in NEP 2020” during 18-20 March, 2025, organized by Shri Lal Bahadur Shastri National Sanskrit University, New Delhi.
- Organized 2nd **Research Scholar’s Day** on 19-05-2023, Dr. V. Ravi Kumar , (Head R&D Bharat Petroliaam, India) was the Chief Guest and Prof. Ramesh C. Bansal(Professor , University of Sharjah, UAE) was the Guest of Honor activity was sponsored by BPCL.
- Convener, International Conference on Innovation in Engineering & Management (**ICIEM’23**), Sustainability through Creativity and Innovation, an interdisciplinary conference with the theme of G20, organized on **1-2 June, 2023**.
- Organized 1st **Research Scholar’s Day** on 20-05-2022, Prof. D. P. Kothari was the Chief Guest and the activity was funded by Dainik Bhaskar Group.
- Recipient of “**Young Scientist Award**” at Alborg University, Denmark (Europe), 2016.
- **Reviewer**, International Journal of **Quality and Reliability Management**, (**U.K.**)
- **Reviewer**, International Journal of Computer Aided Engineering and Technology, Inderscience Publishers (**USA**)
- **Reviewer**, IEEE Access (**USA**)
- **Program Co-Chair**, 2nd International Conference on Sustainable Computing Techniques in Engineering, Science and Management (**SCSEM-2017**), Belagavi (Near Goa), India
- **Chaired Session** in IEEE International Conference **CICN-2014**, Udaipur (Rajasthan)
- **Chaired Session** in IEEE International Conference **INDIACOM-2015**, at Bharti Vidyapeeth, New Delhi.
- **Chaired Session** in IEEE International Conference on Computational Intelligence & Communication Technology (**CICT-2015**), at ABES Engg. College, Ghaziabad, (U.P), India.

- **Chaired Session** in IEEE International Conference **CICN-2014**, Udaipur (Rajasthan)
- **Chaired Session** in National **DRDO** sponsored National Conference at SRM Modinagar

Extra Curricular Activities:

- Participated in One Day FDP on “Artificial Intelligence” on 1st July, 2025, organized by TCS Mumbai.
- Participated in (Four week) FDP on “Quantum Technologies & Applications” during February 28- March 22, 2025, organized by MNIT Jaipur, NIT Patna, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal under DST and ME&IT.
- Participated in (Four week) FDP on “QT-03 Basics of Quantum Programming” during May 16 - June 07, 2025, organized by MNIT Jaipur, NIT Patna, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal under AICTE and ME&IT.
- Participated in (Four week) FDP on “AI Mastry for Education”, during 15th May-7th June 2025, organized by Vishlesan i-Hub IIT Patna.
- Participated in **(One week) FDP** on “Blockchain Technology and Applications”, during 24th-28th June, 2024 Organized by BIT Mesra (Noida Campus) and HBTU Kanpur.
- Participated in **(One week) FDP** on “Data Analytics using Machine Learning” during 03 June-07 June, 2024, Organized by BIT Mesra (Noida Campus) and HBTU Kanpur.
- Participated in **(One week) FDP** on “Advance Pedagogical Learning & University Administration”, during 27-05-2024 to 01-06-2024, Organized by Harcourt Butler Technical University, Kanpur.
- Participated in **(One week) FDP** on “Women in Innovation and Entrepreneur Development (WIED)” 11th -15th March, 2024, University of Information Technology, Wagnaghat, Solan Himachal Pradesh
- Participated in **(One Week)** Short Term Training Program on "HPC in AI (HPC-AI-23) Sponsored by Miet, IEEE on 07-11 August, 2023, Organized by Delhi Technological University, Delhi.
- Participated in **(One Week)** National Workshop on "High Performance Computing (HPC-2016)" Sponsored by TEQIP-II on May 02-06, 2016 Organized by Birla Institute of Technology, Mesra, Ranchi at BIT Mesra Ranch Main Campus.
- Participated in **(One Week)** Short term course on "Recent Trends in Network Security" Conducted by Department of CSE, IIT Roorkee on Feb 01-05, 2016 at IIT Roorkee.
- Participated in **(One Week)** Short term course on "Technical Teacher's Role, Self-Esteem, Motivation and Professionalism Development through ICT" Conducted by NITTTR-Chandigarh on June 08-12, 2015 Organized by JSS Academy of Technical Education Noida(U.P.)
- Participated in **(One Week)** Short term course on "Cyber Crime and Forensic Tools through ICT" Conducted by NITTTR-Chandigarh on Dec 01-05, 2014 Organized by Ajay Kumar Garg Engineering College, Ghaziabad (U.P.).

- Participated in Short term course on "Reliability and Availability Quantification" Conducted by IIT Gandhi Nagar on Jan 20-22, 2014 at IIT Gandhi Nagar (Gujrat).
- Participated in(**One week**) **FDP** on Research Issues and Simulation Tools in Wireless Technologies" conducted by Department of CSE, BIT Mesra Ranchi Noida Campus on Sep 23-27, 2013 at BIT Noida Campus.
- Participated in(**Two week**) **FDP** on "Human Values and Professional Ethics" Organized by IIT Kanpur and GBTU Lucknow on July 09-16, 2012 at IIT Kanpur (U.P.)
- Worked as a **Coordinator**, Alumni Association in Dr. KNMIET, Modinagar.
- Participated in and get certificate in **Faculty Development Programme**, which is conducted by highly experienced professor's team of **IIT, Roorkee**.
- **Gold Medalist in N.S.S. (National Social Service Scheme)** Under C.C.S. University.
- Develop a **Student Information Record** for all student of Dr. KNMIET.
- Participate in many IT Quizes at inter / intra Institute level.
- **EDITOR** , *INFOBYTES Journal of Information Technology*, Published by Ajay Kumar Garg Engineering College, Ghaziabad (U.P.) India.

Date: 10-01-2026

Place: Kanpur

(Dr. Bharat Bhushan Sagar)