

Dr. Sushma Bahuguna

Ph: 9811345938



Post Applied for : Associate Professor

Name : Dr. Sushma Bahuguna

Present Post : Sr. Ast Professor

Name of Institute : Banarsidas Chandiwala Institute of Information Technology-
(Affiliated to GGSIPU), Maa Anand Mai Marg,
Kalkaji, New Delhi-110019

Proactive and committed educator, grounded with solution-oriented approach, constantly working on academic and professional growth. Professional Expertise a few to mention are:

- Created software solution of Eye-Hospital, Motihari, Bihar.
- Provided solution for securing BCIIT/BCIP/BCIPS/BCIHMCT/Chandiwala Estate websites form Virus Attacks. Recovered Hacked Website without Anti-Virus.
- Provided solution by debugging the obsolete API function call not supported by the current database version BCIIT/BCIHMCT/Chandiwala Estate websites.
- Developed following projects [Post Ph. D research]
 - Evaluation of Nth Bit Replacement in Audio Steganography [Text]
 - Performance Evaluation of Speaker Identification System for Male Speaker During Adolescence
 - Gender Specific Pitch Variation Pattern of Emotion Expression
 - Acoustic Features Pattern of Emotion Expression for Hindi Speech
 - Audio Steganography Technique using Circular Bit Replacement [Text]

Experience:

Name of the Institute/Organization	Post held	Period		Nature of Work	No. of Years
		From	To		
Banarsidas Chandiwala Institute of Information Technology (BCIIT), Kalkaji, New Delhi	Assistant Professor	Sep' 08	Till Date	Teaching	14Yrs
WebUniv Infotech (affiliated to Maharshi Dayanand University, Rohtak), Punjabi Bagh	Sr. Faculty, Assistant Centre Manager	Jan' 00	Feb' 08	Teaching	8Yrs, 2mths

Current Job Role (Additional Responsibilities Taken) :

S. No.	Details	
1	Programme Coordinator (MCA)	Jan 2016 till date
2	Website Coordinator (Internet/Intranet)	2010 till date
3	Member (Chairman) of Committee against Sexual Harassment	2013 till date
4	Member of Grievance Redressal Committee	2013 till date
5	Member of Anti Ragging Committee	2013 till date
6	Member of AICTE Directed Counseling Committee	2018 till date
7	Examination Coordinator	2011 - 2014
8	Seminar and Workshop Coordinator	2013 - 2015
10	Executive Editor (E-Newsletter and E-Magazine)	2010 - 2015

Educational Qualifications :

Examination		University/Board	Yr of Passing	Division	% of marks / CGPA grade
Sr. Secondary (XII th)		CBSE, Kendriya Vidyalaya, Pune	1991	Ist	68%
Graduation	B.Com	Pune University, Maharashtra	1994	Ist	60%
	B.Ed.	Bharatidasan University, Tiruchrapally	1995	IIInd	54%
Post Graduation	MSc. (CS)	Maharshi Dayanand University, Rohtak	2002	Ist	67.5%
	MCA	Maharshi Dayanand University, Rohtak	2004	Ist	73.14%
	M. Tech. (IT)	GGSIU, Delhi	2012	Ist	71.46 %
Ph.D.	Singhania University, Rajasthan, 2015 Title of Thesis "Empirical Study of Emotion Based Speaker Identification for Hindi Speech"				
Other	DCA	Western India Computer Services, Pune		1992	1st

	PGDCA	Bureau of Data Processing System, Hyderabad	1995	Ist
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List of publications /activities organized/attended:

a) **Papers Published in Journals:**

S. No.	Title	Journal/ Conference	ISSN/ISBN No	Main author (Y/N)	Indexing	Year of Publication
Journals						
1.	A Review of LSB-Based Audio Steganography Techniques	IJCET, Vol. 12, Issue 3	ISSN Online: 0976 – 6375 Print: 0976 – 6367	YES	Scopedatabase, Google Scholar, ResearchGate, Academia	Oct-2021
2.	Audio Steganography Technique using Circular Bit Replacement	Vol. 10, Issue 4 IJCET,	ISSN Online: 0976 – 6375 Print: 0976 – 6367	YES	Scopedatabase, Google Scholar, ResearchGate, Academia	July-Aug, 2019
3.	Evaluation of Nth Bit Replacement in Audio Steganography	IJCET, Vol. 9, Issue 4	ISSN Online: 0976 – 6375 Print: 0976 – 6367	YES	Scopedatabase, Google Scholar, ResearchGate, Academia	July-Aug, 2018
4.	Performance Evaluation of Speaker Identification System for Male Speaker During Adolescence	IJCET, Vol. 8, Issue 5	ISSN Online: 0976 – 6375 Print: 0976 – 6367	YES	Scopedatabas, Google Scholar, ResearchGate, Academia	Sep-Oct 2017
5.	A Study of Speech Emotion and Speaker Identification System using VQ and GMM'	IJCSI-2016 Vol.13, Issue 4	ISSN Online: 1694-0784 Print: 1694- 0814	YES	Google Scholar	July 2016
6.	Review of Smartcard Attacks and Countermeasures	ACSIT Vol. 3, Issue 5	ISSN Online: 2393-9915; Print: 2393- 9907	YES	Google Scholar	July-Sep, 2016
7.	Emotion Based Text Independent Speaker Identification using GMM for Hindi Speech	IJJC, Vol. 5 Issue 3	ISSN Online: 2230-9039 Print: 2231- 2153	YES		July 2015

8.	A Study Of Gender Specific Pitch Variation Pattern of Emotion Expression For Hindi Speech	IJARET, Vol. 5 Issue 8	ISSN Online: 0976-6499 Print:0976-6480	YES	Scopus: (2019 - 2020), Scope Database, Google Scholar, Academia	Aug 2014
9.	A Study Of Acoustic Features Pattern Of Emotion Expression For Hindi Speech	IJCET, Vol. 4 Issue 6	ISSN Online : 0976 -6375 Print: 0976 - 6375	YES	Scopedatabase, Google Scholar, ResearchGate, Academia	Dec 2013
10.	Study of Speaker's Emotion Identification for Hindi Speech	IJCSE, Vol. 5 Issue 7	ISSN: Online: 0975-3397 Print:2229-5631	YES	Google Scholar, DOAJ, Scirus	Jan 2013
11.	Image Steganography with PCA and ICA	IFRSA's International journal Of computing	ISSN Online: 2230-9039 Print: 2231-2153	YES		Jan 2012
12.	Semantic Web: Ontology Based Web	TJMS, Vol. 5	ISSN-0975-7104	No		Sep 2010

Conferences

S. No.	Title	Conference	ISSN/ISBN No	Main author (Y/N)		Year of Publication
13.	A Review of Emotional Speech Recognition for Human-Computer Interaction	National Conference	MDU, Rohtak, ETSC-19	NO		Mar 2019
14.	Review of Smartcard Attacks and Counter Measures	International Conference on IREE,	Krishi Sanskriti Publications, (ECIM-2016)	Yes		Jun-16
15.	Emotion based Speaker Identification for Hindi Speech	National Conference,	TIAS, New Delhi	Yes		Apr-11
16.	Security framework for e-governance	National Conference,	RDIAS, New Delhi	Yes		Apr-10

17.	Cloud computing: A new era of IT opportunity and challenges	National Conference,	TIAS, New Delhi	Yes		Mar-10
18.	Cloud computing- Future of mobile	National Conference,	USMS Jointly with IETE Delhi, CSI and IEEE Delhi	Yes		Mar-10
19.	Neural network technique for data mining	National Conference,	USMS Jointly with IETE Delhi, CSI and IEEE Delhi	Yes		Mar-10
20.	Mining Structured Data from Unstructured Data Sources	National Conference,	GIBS, New Delhi	Yes		Feb-10
21.	Comparative Study of data, text and web mining.	National Conference,	I.T.S. Management & IT Institute, Gaziabad	Yes		Nov-09

b) Training Courses, Faculty Development Programmes and Workshops Attended:

S. No.	Programme	Event	Duration	Organized by	Month and Year
FDP/STC					
1	Inculcating Universal Human Values in Technical Education	FDP	1 Week	All India Council for Technical Education(AICTE)	11/04/2022 to 15/04/2022
2	IoT & Cyber Security	FDP	1 Week	AICTE ATAL Academy- Institute of Engineering & Management.	06/09/2021 to 10/09/2021
3	Internet of Things (IoT): Architecture & System Level Design"	FDP	1 Week	AICTE ATAL AcademyUSIC&T, GGSIPU	27/09/2021 to 01/10/2021
4	"Artificial Intelligence and its Applications"	FDP	1 Week	AICTE ATAL Academy- Government college of engineering, Nagpur	2021-06-07 to 2021-06-11

5	Complete Python developer in 2021	Training	30.5 hrs	Udemy Online	Feb 2021
6	AICTE Training And Learning (ATAL) Academy	Online	1 Week	IIIT-D	June 8th-12th,2020
7	FDP on Python	Online	1 Week	ACM@USICT Chapter organized and CADDESK sponsored	29th June - 05th July 2020.
8	Emerging Research Trends in Computer Science and IT	FDP	2 weeks	IEEE Delhi Section & IIPC, AICTE, BVICAM	13 th – 24 th May-2019
9	Training -Create Android App without coding	Training	1 Day	Udemy Online 3 hrs	Jun-20
10	Data Science and Machine Learning Applications in IT & Management Domains	FDP	1 week	DIAS, New Delhi	25 th – 30 th May 2018
11	Information Security and Digital Forensics ISDF2017	STC	1 week	NSIT, New Delhi	5 th – 9 th Jun 2017
12	Vulnerability Assessment of Networks and web Applications	STC	1 week	BVICAM, New Delhi	29 th Feb – 5 th Mar 2016
13	Entrepreneurship development	FDP	2 weeks	BCIPS, New Delhi	2 nd Dec – 13 th Dec 2013
14	ICT based Training using Spoken Tutorial	FDP	1 day	BPIT, New Delhi	29 th Nov 2013
15	Research Paper Writing & Research Methodology	FDP	1 day	GNIM. New Delhi	7 th Jan 2012
16	Mobile Architecture and Application Development	FDP	1 week	BCIIT, Kalkaji	14 th – 16 th Mar 2011
17	IBM Certified Associate Developer Rational Application Developer for WebSphere Software V6.0	Training	1 day	IBM	17 th Aug 2010

18	IBM Certified Database Associate DB2 9 Fundamentals	Training	1 day	IBM	16 th Nov 2009
16	11i Oracle Receivables Fundamentals	Training	1 week	Oracle University, New Delhi	16 th – 20 th Jul 2007
17	11i eBusiness Suite Essentials for Implementers	Training	1 week	Oracle University, New Delhi	31 st May – 4 th Jul 2007
18	Introduction to Oracle9i - SQL	Training	1 week	NIIT Connaught Place.	30 th Apr- 11 th May 2007
Workshops / Seminars / Webinars Attended					

19	Cyber Warfare, Cyber Security and Cyber Citizenship	Webinar	1 day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Apr-22
20	The Art of Managing Risks Effectively in 2022	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	26 th Feb-2022
21	Cyber Physical Social System - The Foundation of IR 5.0	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Feb-22
22	Artificial Intelligence (AI) and Mass Media	Webinar	1 day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Jan-22
23	Work from Home – New Norm? Opportunities and Challenges	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Dec-21
24	Webinar on Education for Anyone, Anytime and Anywhere: NEP2020 & Beyond	Webinar	1 day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Dec-21
25	AI in Everyday Life – Threat or Opportunity	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Dec-20
26	Webinar on Unleashing Data Science and AI	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Aug 8 2020

27	Webinar on The Art of Writing Research Papers	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Sep 25 2020
28	Webinar on Virtual Reality and Augmentation	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Oct 3 2020
29	Webinar on Publication Ethics and Plagiarism	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Oct 16 2020
30	Optimization and AI Techniques	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Nov 6 2020
31	Value of IPR in Academic Researches	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Nov 21 2020
32	Webinar on Digital Twin: Technology for post COVID-19	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Nov 28, 2020
33	Webinar on AI in Everyday Life – Threat or Opportunity	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Dec 4 2020
34	IT Project: The Key Management Areas for Success	Webinar	1 Day	IEEE Delhi Section & IIPC, AICTE, BVICAM	Jun, 2020
35	Linux	Workshop	1 day	BCIIT, New Delhi	Jan-16
36	PHP	Workshop	1 day	BCIIT, New Delhi	Apr-15
37	Android	Workshop	1 day	BCIIT, New Delhi	Mar-15
38	Advanced Java Programming	Workshop	1 day	BCIIT, New Delhi	Oct-14
39	Ethical Hacking & Cyber	Workshop	2 days	BCIIT, New Delhi	Oct-12
40	Recent Advances in Software Engineering	Workshop	2 days	DTU, New Delhi	Apr-12
41	Recent Trends in Software Testing	Workshop	1 day	DTU, New Delhi	Sep-10
42	IBM-RAD Certified	Workshop	2 days	BCIIT	Aug-10

43	ISO Certification	Workshop	1 day	BCIP , New Delhi	Mar-10
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Organized/Co-ordinated Workshops/Seminars/Webinars

S. No	Event	Role	Duration	Conducted by	Month Year
1	Workshop on Mobile Application Development	Speaker	3 days	BCIIT	16th 18th & 19th June 2021
2	Workshop on Linux	Organizer	1 Day	Spoken Tutorial, IIT Bombay, Funded by NMEICT, MHRD, Govt. of India.	12 th Nov 2013
3	Seminar on Tricks and Techniques to Enhance Aptitude Skills	Organizer	1 Day	Mr Mayank	25 th Feb 2015
4	Technical Session on Smartchip	Organizer	1 Day	Smartchip Ltd	20 th Feb 2015
5	Seminar on Parallel Computing	Organizer	1 Day	Dr. Pragya Jain, IIT Delhi	27 th Aug 2014
6	Workshop on PHP & MySQL	Organizer	1 Day	Spoken Tutorial, IIT Bombay, Funded by NMEICT, MHRD, Govt. of India.	24 th Mar 2014
7	Workshop on C & C++	Organizer	1 Day	Spoken Tutorial, IIT Bombay, Funded by NMEICT, MHRD, Govt. of India.	5 th Feb 2014
8	Workshop on Linux	Organizer	1 Day	Spoken Tutorial, IIT Bombay, Funded by NMEICT, MHRD, Govt. of India.	24 th Jul 2013
9	PHP & MySQL	Organizer	1 Day	Spoken Tutorial, IIT Bombay, Funded by NMEICT, MHRD, Govt. of India.	18 th Feb 2013

Research Supervision

No. of Ph. D. Degree Registered

01. Sandeep Jain(2018)

Topic: "The Study and Implementation of Empirically Derived Parameters of Speech Emotion on Text to Speech Synthesizer System For Hindi Speech".

02. Supervised more than 200 Projects at Masters Level (MCA)

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Date: 4th July 2023

Place: New Delhi

Dr. Sushma Bahuguna