CURRICULAM VITAE

- 1. Name (in BLOCK LETTERS): Dr. BANANI SAHA
- 2. Date and Place of Birth: 29 January, 1960
- 3. Indicate whether belonging to (SC / ST / OBC / Others): GENERAL
- 4. Department: Computer Science and Engineering
- 5. Address for Communication: Dept. of Computer Sc. & Engg. JD-2, Sector III, Salt Lake City, Kolkata - 98
- 6. Permanent Address:
 Flat No. 27, Naba Ananda Niketan Cooperative Housing Soc.
 632 Dumdum Park, Kolkata - 55
- 7. Telephone Number:

Office	Residence	Mobile
	+913325919652	+919433130715

- 8. E-mail: <u>bsaha_29@yahoo.com</u>
- 9. Teaching experience: 32 years.
- 10. Currently the Head of the Department in Computer Science and Engineering from February 2018.

11. Academic Qualifications

School/College & Board/University	Examinations Passed	Year of Passing	or	Percenta ge of marks	Subjects studied	Any other information
University of Calcutta	B. Tech.	1982	Ι	80%	Computer Science	2 nd in order of merit
University of Calcutta	M. Tech.	1984	Ι	89.5%	Computer Science	1 st in order of merit
University of	Ph.D. (Tech)	1991			Computer Science	

12. Award / Honours:

- (i) Awarded national scholarship for excellent results in both Higher Secondary and B. Sc. (Hons.) Examinations.
- (ii) Awarded certificate from University of Calcutta for securing 2nd highest marks in B. Tech (CSE).
- (iii) Awarded certificate and medal from University of Calcutta for ranking 1st position in M. Tech (CSE)
- (iv)Selected one of the two lecturers in the newly constituted Department of Computer Science (later renamed as the Department of Computer Science and Engineering), University of Calcutta in 1985, based on my B. Tech. result, before completion of my M.Tech. course (as per AICTE norms).
- **13.** Any other information:
 - (i) Worked twice as the HOD of Computer Science and Engineering, C.U. from Dec. 1994 Dec. 1996 and March 2001 March 2003.
 - (ii) Worked as the Chairperson, PG BoS in Computer Science and Engineering. C.U. (two years each) in two different periods: 94-96 and 01-03.
 - (iii) As a teacher and also as HOD I am/have been associated with different works related to students' welfare and discipline.
 - (iv) I served the SNDT University in Mumbai from Dec. 1998 to Feb. 2001. During this period, I was appointed In-Charge of the Computer Science and Technology Department. Since it was virtually a new department of the University, the responsibility was quite challenging to me. Effectively I was the single person in the department responsible for curriculum design, structuring of syllabus, setting up new laboratories and making collaboration with industries. During this tenure, I was nominated a member of Technical Committee of the University, a higher academic body constituted for framing a system for academic developments in different departments.
 - (v) I worked as a member of different selection committees of DRDO, Ministry of Defense at IIT-Kharagpur, Delhi, Pune, Bangalore and Hyderabad.
 - (vi) I worked as the coordinator of a Refresher course in Computer Science for U.G & P.G Teachers from different universities and colleges under the Academic Staff College, C.U. (19th Sept, 2002 10th Oct, 2002).
 - (vii) I was/am associated with different bodies (as chairperson/member) like P.G Board of studies, Departmental Committee and Faculty Council. I am making regular

contributions towards teaching, research and curriculum development in areas of Science, Engineering and Technology.

- (viii) I worked as a member of the selection committee for State Public Service Commission (PSC) and Staff Selection Commission (SSC).
- (ix) I served as an expert member of the different academic inspection committees on invitation from CU and WBUT.
- (x) I served as a member of the Ph.D. (Tech.) Committee in Computer Science & Engineering of the University of Calcutta.
- (xi) I acted as a member of the Program Committee (PC) and the Organizing Committee (OC) of several National & International Conferences/Seminars & Workshops.
- (xii) I acted as a Chair in conducting several technical sessions and tutorial presentations in International Conferences.
- (xiii) I participated in the preparation of B. Tech. and M.Tech. curricula in Computer Science & Engineering and M.Sc. curriculum for Computer & Information Science of the University of Calcutta.
- (xiv) I acted as reviewer for research papers for publication in different journals as well as for International Conferences/ Symposia.
- (xv) Presently, 5 research scholars [two registered, one enrolled and two more yet to be enrolled] are working under my supervision for pursuing Ph.D. (Tech.) program under the University of Calcutta in Computer Science and Engineering as well as in Information Technology.

14. Research Experience excluding years spent in M.Phil. / Ph.D. (in years): 25 years.

- 18. Number of Projects supervised in the M. Tech. Programme: 30
- 19: Research, Publications, and Academic Contributions (From 2006 onwards , previous years not mentioned):

A) Published Papers in Jou	urnals
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S. No.	Title with Page No.	Journal (Vol., Year)	ISSN / ISBN	Whether peer- reviewed ; Impact factor, if any.	No. of co-	Whether you are the main author
1	Realization of Petrinets: A System Theoretic Approach, pp.2407-2417	International Journal of Systems Science, Vol.19, No.11. Published Online :30 th May 2007	ISSN :0020- 7721	Peer reviewed IF: 1.579	1	Yes

2	Representation and Analysis of Petrinets via Matrix State Equation Approach, pp 1-7		ISSN:002 0-7217	Peer reviewed IF: 0.751	1	Yes
3	A Computer based reduction technique for Petrinets, pp 49-59	International Journal of System Science, Vol. 22 No.22. Published online: 31 Jan 2007	0020-	Peer reviewed IF: 1.579	1	Yes
4	Implementation and fault simulation testing of combinatorial circuits, pp 665-678	5	ISSN:002 0-7217	Peer reviewed IF: 0.751	1	Superviso r
5	Data Quality mining using Genetic Algorithm, pp 105- 112,	International Journal of Computer Science and Security, Vol. 3, Issue 2, 2009	ISSN NO- 1985- 1553	IF 1.25 Peer reviewed	1	Superviso r
6	Community Model Architecture - A New Data Fusion Paradigm for Implementation, pp. 4774 - 4783	Innovative Research in Computer and Communication Engineering Vol. 2 Issue 6, Jan 2014	ISSN (Online): 2320- 9801, ISSN (Print): 2320- 9798	Peer reviewed IF: 5.618	1	Superviso r
7	Community Model – A New Data Fusion Filter Paradigm, pp. 25-31	American Journal of Advanced Computing Vol. 2, No. 1, Feb. 2015	ISSN 2368- 1209	Peer reviewed IF 1.5	1	Superviso r
8	An Efficient Elliptic Curve Cryptography Arithmetic Using Nikhilam Multiplication , PP.45- 50	The International Journal of Engineering And Science (IJES), Vol. 4. Issue 4, April 2015	ISSN (e): 2319 – 1813, ISSN (p): 2319 – 1805	Peer reviewed	1	Superviso r

9	E-Governance Security using Public Key Cryptography With special focus on ECC	Engineering and Science Invention Vol.	e-ISSN : 2319 – 6734 p- ISSN : 2319 – 6726	Peer reviewed IF: 1.786	1	Superviso r
10	Study of Various Parallel Implementations of Association Rule Mining Algorithm, pp12-16	American Journal Of Advanced Computing, Vol. 2, No.1, Feb. 2015	ISSN: 2368- 1209	Peer reviewed	1	Superviso r
11	An Efficient Hybrid Elliptic Curve Cryptography System with DNA Encoding, Pages 33-39	International Research Journal of Computer Science (IRJCS) , Vol. 2, Issue 5, May 2015	ISSN: 2393- 9842	Peer reviewed IF: 2.023	1	Superviso r
	Parallel Implementation of Hyper clique Miner Algorithm for Association Analysis of Weighted Protein- Protein Interaction Network, Pages 43-48	International Research Journal of Computer Science (IRJCS), Issue 5, Volume 2 May 2015	ISSN: 2393- 9842	Peer reviewed IF: 2.023	1	Superviso r
13	Analysis of Signalling		ISSN: 2310- 9025 (Print), ISSN: 2310- 9033 (Online)	Peer Reviewe d IF: 0.5714	1	Superviso r
14	Real Time Key Frame Extraction through Parallel Computation of Entropy Difference	Defence Science Journal	Submitted		3	Superviso r
-	Towards efficient Hyper clique miner	Defence Science Journal	Submitted		1	Superviso

	technique for removing noise in Protein –Protein Interaction network				r
16	A step forward to revolutionized Intrusion Detection System using deep convolution Neural Network	Malaysian Journal of Computer Science	Submitted	3	Superviso r
17	Towards the speed enhancement of Association rule mining algorithm for Intrusion Detection System	IEEE Access	Submitted	1	Superviso r
18	Towards the efficient Hyper clique miner technique for removing noise in Protein –Protein Interaction network	Basic & Clinical Pharmacology & Toxicology ISSN: 1742-7835, e- ISSN:1742-7843	Submitted	2	Superviso r

B (i) Articles/Chapters Published in Books:

S. N o.	Title with page Nos.	Book Title editor & publisher	ISSN/IS BN No.	Whether peer reviewed	No. of Co- author	Whether you are the main author	API Score
1	Computer-Aided Modeling of Embedded Systems Using Petrinets: in Information Technology Key to Progress, pp 177-190	Ed. S. Bandyopadhy ay, Tata McGraw-Hill Publishing Co. Ltd., 1990	N/A	yes	1	Yes	5

B (ii) Full Papers in Conference Proceedings

S. No.	Title with page nos.	Details of Conference Publication	ISSN/ISBN No.	Co-	you are	API Scor
		Publication		authors	the main author	e

	Modeling and Analysis of Administrative system through Place- Transition nets, pp 6-		N/A	1	Yes	5
	29					
	-	Proceedings of the seminar on Parallel	N/A	1	Yes	5
	analysis of Petrinets,	Processing Systems and their				
		applications, pp 92-				
		95,Institution of				
		Engineers, 90				
3	Heuristic Based	Proceedings of	N/A	2	Yes	5
	Decision Tree	International				
	Algorithm for	Conference on				
	Classification Problems	Communications,				
-	U	Devices &				
		Intelligent Systems				
		(CODIS 2004)				
		Jadavpur University			~ ·	
	A New Approach to a		N/A	2	Supervisor	5
		International				
	Clustering Algorithm in					
-	e	Communications, Devices &				
		Intelligent Systems				
		(CODIS 2004)				
		Jadavpur University				
5	Subscription fraud in	1 ,	IEEE	1	Yes	5
	_	Conference on	Catalog No.			
	Modeling and Behavior	Advanced	CFP06ADC			
	Analysis through	Computing and	-PRTE-			
	Statistical Measure Pp:		ISBN: 1-			
	179 - 182	(ADCOM 2006},	4244-0716-8			
		20-23 Dec. 2006	Print			
			ISBN:1-			
			4244-0716-8			
6	Quantum Cryptography	International Conf	ISBN 81-	2	Supervisor	3

	Photons, Page 82-86	on Information Technology, H.I.T. 2009	89766-74-0			
7	-		ISBN 81- 89766-74-0	1	Supervisor	3
8			ISBN 978- 81-909789- 0-3	1	Supervisor	3
9			ISBN : 978-1-4244- 7154-6	1	Yes	5
10	Recognition System using Ant-Colony Based Back Propagation Method	International Conference on Computers & Device for Communication (CODEC) 2009	N/A	1	Supervisor	3
11	of AODV and DSR Routing Protocols for Ad-Hoc Networks pp.	Advanced	Print ISBN: 978-3-642- 29279-8 Online ISBN: 978- 3-642- 29280-4 LNCS 7135 Springer- Verlag	2	Supervisor	3
12		International Conference on	Print ISBN: 978-3-642-	1	Supervisor	3

	patterns from parallel mining of protein- protein interaction network	Computer & Communication Technology, 2015	29279-8 Online ISBN: 978- 3-642- 29280-4 LNCS 7135 Springer- Verlag		
13	Efficient analysis of clinical genomic database	ICCIDM-2018	Presented	1	Supervisor
13	DNA Encoded Elliptic Curve Cryptography System for IoT Security	International Conference on Computational Intelligence & Internet of Things (ICCIIoT) 2018	Presented	1	Supervisor
14	Gathering Identification using Image metrics for Intelligent Situation Awareness System in Real Time Scenarios	CIPR-2019	Accepted	3	Supervisor

Ongoing Projects / Consultancies:

S. No.	Title	Agency	Period	Grant / Amount Mobilized (Rs. Lakh)
	Object Identification through Syntactic as well as Semantic Interpretation from given Spatio- Temporal Images			
1	(Principal	DRDO	3 Years	30

Investigator)

21. Completed Projects / Consultancies / Patents:

S.				Grant /	Whether
No.	Title	Agency	Period		policy
		8		Mobilized (Rs.	document /
				Lakh)	patent as
				Lani)	outcome
					outcome
	Design of Innovative				
	Application and Resource				
	Management Technique				
	in Telecommunication	AICTE F.			
	Industries through Data	No. 8021			
	Mining	/RID			
	(Principal Investigator)	/NPROJ/	2004-		
1	No. of other	TAP-84	2004	9.0	
1	investigators:0	AICTE F. No	2007	9.0	
	MODROB in the library				
	of Computer Science	8017/			
	Department	RDII/BOR/9			
	(Principal investigator)	5/MCOM063			Lab
	No. of other	/LIB/REC51	1996-		modernizatio
2	investigators:0	0	98	7.0	n
	Education Research &				
	Training in Visual				
	Information Processing				Upgradation
	(Co-investigator)	MHRD			of course
	No. of other	F.2-2/90 TD-	1991-		structure,
3	investigators:0	6	94	6.0	publication
	Augmentation of				
	facilities in Graphics &				
	Microcomputer				Upgradation
	Laboratory (Co-				of course
	investigator)	MHRD	1000		structure,
4	No. of other	F.1-4/87 T-7	1988-	22.04	new
4	investigators:0	(C. Sc.)	90	22.94	laboratory

22. Research Guidance

S. No.	Number Enrolled	Thesis Submitted	Degree awarded
M. Phil or equivalent	24	24	24
Ph.D. or	3+5 (R)	-	-

I declare that information provided are true to the best of my knowledge and documentary evidence for each information will be produced as and when required.