

Prof. Debnath Bhattacharyya,
Ph.D. (Tech., Computer Science and Engineering), University of Calcutta;
M.Tech. (Computer Science and Engineering), West Bengal University of Technology.

Contact:

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Date of Birth: August 24, 1963.

Education:

May, 2012: Ph.D. (Tech., Computer Science and Engineering), University of Calcutta, India.
Topic: "Design and Analysis of Human Signature Authentication and IRIS Verification System"
August, 2008: M.Tech. (Computer Science and Engineering), West Bengal University of
Technology, Kolkata, India.

M.Sc. IT in 2004 distance
PGDCSM in 1994
B.Sc. Spl Hons Botany in 1989 with 53.77%
B.Sc. Pass in 1984 with 62.77%
12th Standard in 1982 with 37.80%
10th Standard in 1980 with 51.50%

Work Experience:

May 2020 to current: Professor, Department of Computer Science and Engineering, K L Deemed to be University, KLEF, Guntur - 522502, India.
January 2022 to current: Visiting Professor, University of Johannesburg, Johannesburg, South Africa.
July 2017 to June 2022: Invited Professor, Lincoln University, KL, Malaysia.
March 2014 to April 2020: Professor, Computer Science and Engineering Department, Vignan Group, Guntur, AP, India. Served as various Roles like, HoD of CSE, and Dean R&D, in Vignan's Institute of Information Technology, Visakhapatnam and Professor of VFSTR University.
October 09, 2012 to December 2013: Professor and Head, Computer Science and Engineering Department, NSHM Knowledge Campus – Durgapur, Durgapur-713212.
November 01, 2011 to May 04, 2012: Professor, Information Technology Department, MCKVIE, Liluah, Howrah.
February 02, 2011 to October 31, 2011: Professor, Computer Science and Engineering Department; In-Charge of CSE, IT and MCA; MPCT, Gwalior, India.
March 01, 2010 to January 31, 2011: Foreign Professor, Hannam University, Daejeon, South Korea.

March 10, 2005 to February, 2010: Assistant Professor, Computer Science and Engineering Department, Heritage Institute of Technology, Kolkata, India.

February 01, 1996 to March 09, 2005: Education Officer, computer Society of India, Kolkata, India.

January 1995 to January 1996: Temporary Faculty Member, RCC, Jadavpur, Kolkata.

Research Attachments:

- **International Research collaboration** initiated on May 2020, with **Dr. Lalit Garg, University of Malta, Msida.**
- **International Research collaboration** established with:
 - a. **Dr. Qin Xin, University of Faroe Island.**
 - b. **Dr. Tai-hoon Kim, BJTU, China.**
 - c. **Dr. Y. Byun, Jeju National University, Jeju Island, South Korea.**
- **Member, Ph.D. Committee (CSIT), 2012-13, West Bengal University of Technology, Kolkata.**
- **Member, Ph.D. Selection Committee (CSIT), 2012-13, West Bengal University of Technology, Kolkata.**

Projects:

- a. Rs. 6.00 Lakh, for 2 years, dated: 03.02.2011, (Completed), Titled “Statistical Analysis towards Image Recognition”, funded and allocated by Machine Intelligence Research (MIR) Labs, (Constituents of MIR Labs, USA), Gwalior-474011.
- b. \$30000 USD, for 2 years, dated: 01.03.2016, (Completed), Titled “Automatic Human Recognition”, funded by Sungshin W. University and SERSC South Korea.
- c. \$29000 USD, for 3 years, dated: 01.03.2019, (Completed), Establishment of joint Research Lab, Titled “Soft Computing and Knowledge Engineering Research Lab”.
- d. \$3600 USD: Consultancy Project for 4 Months, dated: March 2022 (Completed), South Korean Bank, Title: “Loan Disbursement System”.
- e. Rs. 120000, AquaExchange Pvt. Ltd., Shrimp Counting System, September 2020, (Closed), Consultancy Project.
- f. 4000 EURO, ICCSA Italy, Water management system, about to complete, January 2022.

Research Publications:

Scopus Publications	: 239
Web of Science	: 145
Google Scholar	: 400+

Publication List(s):

<https://scholar.google.co.in/citations?user=B0MKrZAAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=57216142572>

Patent(s):

Published: Indian : 05
Granted: 02

Delivery of invited Lectures:

Sl.No.	Topic(s)	Institute/University
1	Invited Lecture on “Data Mining”	Organized by MCA Dept., Bengal Institute of Technology, Bantala. September 10, 2008.
2	Invited Lecture on “Data Mining and Current Research Trend”	Computer Science and Engineering Department, NIST, Berhampur. September 14, 2011.
3	Invited Lecture on “Current Research Trends” in Computer Science.	K.L. University, Vijayawada, India, December 05, 2011.
4	Invited Lecture on “Graphical Password” in Computer Science and IT.	Bharti Vidyapeeth Deemed University, Pune, India, December 16, 2011.
5	Invited Lecture on “Data Mining”.	MPCTM, Gwalior, August 07, 2013.
6	Keynote Speech on “Unsupervised Learning”	IEEE-COMCOMS-2015, October 23-26, 2015, Hanoi.
7	Invited Lecture on “Machine Learning”	Hanoi University of Science and Technology (Largest Public University in Vietnam), October 23, 2015.
8	Invited Lecture on “Under Water Communication”	National Institute of Oceanography, Panaji, Goa, September 11-12, 2015.
9	Invited Lecture on “Research Foundation”	VFSTR University, Guntur, AP. April 17, 2017.
10	ACM DSP Lecture on Data Science	VVIT, Guntur, AP, July 18, 2019.
11	ACM DSP Lecture on Data Mining	KKR & KSR Institute, Guntur, AP, January 5, 2019.
12	ACM DSP Lecture on Unsupervised Learning in Data Mining	salesforce, USA, August 27, 2020.
13	ACM DSP Lecture on Pattern Recognition	Chitkara University, December 29, 2020.
14	Invited Lecture on Computer Vision	Qingdao University, China, April 11, 2021.
15	Invited Lecture on “About my Research in Computer Vision”	Harbin Institute of Technology (Shenzhen), China, October 16, 2020.

Research Interests:

Biometric Authentication, Pattern Recognition, Image Processing and Security Engineering.

PhD Awarded: 8

Current PhD Students: 3

International Activities:

Position	Conference/Journal	Location	Link (if any)
	IEEE-ICIAS 2007 International Conference	KL Convention Centre, Kuala Lumpur, Malaysia, 25 - 28 November 2007.	
	IEEE HUT-ICCE 2008 International Conference	Golden Sand Resort, Hoi An City, Vietnam, 4 - 6 June, 2008.	

Reviewer	Journal of Universal Computer Science (J.UCS)		Special Issue on Data Security and Privacy Protection in Pervasive Computing Environments.
	Springer: Journal of Mobile Networks and Applications.		
	Journal of Digital Forensic Practice.		
	Electronic Letters on Computer Vision and Image Analysis (ELCVIA).		
	IJSIP, IJCA, IJDTA, IJSEIA, IJSIA, IJFGCN, IJHIT, IJSH & IJGDC International Journals.	Science and Engineering Research Support Center, Korea	http://sersc.org

Chief Editor(s):

Journal of Statistical Computing and Algorithm (JSCA)

<http://gvschoolpub.org/journals/JSCA/>

International Journal of Communication Technology for Social Networking Services (IJCTSNS), <http://gvschoolpub.org/journals/IJCTSNS/>

Advisory Board Member, International Journal of Computer Information Systems and Industrial Management Applications, <http://www.mirlabs.org/ijcisim/>

Editor(s):

International Journal of Ambient Computing and Intelligence (IJACI), <http://www.igi-global.com/journal/international-journal-ambient-computing-intelligence/1110>

Informatics in Medicine Unlocked,

<https://www.journals.elsevier.com/informatics-in-medicine-unlocked/>

International Journal of Extreme Automation and Connectivity in Healthcare

(IJEACH), <https://www.igi-global.com/journal/international-journal-extreme-automation-connectivity/188743>

International Journal of Academic Research (IJAR), <http://www.ijarsite.com/editors/>

Journal of Business and Technovation (JoBT), <http://www.jotonline.net/editors/>

Athens Journal of Sciences, Athens, Greece, <http://www.atiner.gr/journals/sciences.htm>

Athens Journal of Technology & Engineering, Athens,

Greece, <http://www.athensjournals.gr/athens-journal-of-technology-engineering>

International Journal of Applied Information Systems, Published by FCS (Foundation of Computer Science), New York, USA, <http://ijais.org/editorial-board>

Journal of Medical Genetics and Genomics,

Academic Journals, 5170-00200, Nairobi, 73023 Victoria Island, Lagos.

<http://www.academicjournals.org/JMGG/Editors.htm>

Genomics Discovery, Herbert Open Access Journal, Herbert Publications Ltd.,

15 Windmill Road, Luton, Bedfordshire, LU1 3XL, United Kingdom.

<http://www.hoajonline.com/genomics/editorialboard>

Connections with Professional Bodies:

- a. **Member, IEEE.** (Membership No. 92618808)
- b. **Member, ACM and SIGKDD**
- c. **Life Member,** Computer Society of India, India. (Member No. 1065121)
- d. **Sr. Member** of “International Association of Computer Science and Information Technology (IACSIT)”, Singapore-609431. (Member No. 80331617)
- e. **Member,** International Association of Engineers (IEANG), Hong Kong. (Member No: 62559)
- f. **Member,** Science and Engineering Research Division, Computer Research Unit, Athens Institute for Education and Research, ATINER, 8 Valaoritou Street, Kolonaki, 10671 Athens, Greece.
- g. **Member** of “International Biometric Group”, <http://www.bio1.com/index.php>

Visited Thailand, Malaysia, USA, Maldives, Nepal, Singapore, Korea, Japan, UK, Hanoi, etc., for presenting Research Papers in various IEEE Conferences and for Academic purposes.

Conference Organizing Committee:

- a. **Session Chair,** IEEE-CICSyN, July 23-25, 2009, Indore, India.
<http://www.cicsyn2009.org.uk>
- b. **Local Arrangement Chair and Publicity Chair,** ISA 2010, UCMA 2010, AST 2010, and ACN 2010, International Conferences, June 23 ~ 25, 2010, Sheraton Grande Ocean Resort, Miyazaki, Japan. <http://www.sersc.org/ISA2010/committee.php>
- c. **Chair,** Publication Committee, UCMA-2011, April 13-15, 2011, Hannam University, Korea.
- d. **Technical Panels Chair,** ICCA 2012, January 27-31, 2012, Pondicherry, India.
<http://icca.org.in>
- e. **Publicity Committee Chair,** International Conference on Communication Systems and Network Technologies (CSNT-2012), 11-13 May, 2012, Rajkot, Gujrat, India.
- f. **Publication Committee Chair,** International Conference on Computational Intelligence and Communication Networks (CICN2012). 3-5 November, 2012, GLA University, Mathura, UP, India.
- g. **Steering Committee Co-Chair,** International Conference on Communication Systems and Network Technologies (CSNT-2013), 5-8 April, 2013, Gwalior, MP, India.
- h. **General Chair,** International Conference on Electrical and Electronics Engineering, August 9-11, 2013, Wuhan, China. <http://www.iceee2013.org/com.htm>
- i. **General Chair,** 2013 Asia-Pacific Conference on Electrical Engineering and Automation, Dec. 28-30, 2013, in Zhangjiajie, China.
<http://www.iceeaconf.org/page/html/company.php>

Courses taken:

Course Title	Undergraduate / Post Graduate	Institute/University	Batch Strength	Duration
Adv. Java, System Admin., Object Technology, e-Commerce, C-Programming, Image Processing.	Undergraduate	Heritage Institute of Technology, Kolkata, India	90	2005-2009

Unix and Shell Programming, System Admin & Linux, C-Programming	Post Graduate: MCA		60	
Data Warehousing and Data Mining, Adv. Networking	Post Graduate: M.Tech		18	
C-Programming, Oracle, Java	Undergraduate: B.S.	Hannam University, Korea	24	Entire 2010
Project, Thesis and Seminar	Post Graduate: M.S.		20	
PPL, Unix and Shell Programming	Undergraduate: B.E.	MPCT, Gwalior, India	90, 60	From Feb, 2011
Object Oriented Programming	Undergraduate: B.Tech.	MCKVIE	60	From Nov' 2011 to May 2012
C, C++, Object Oriented Programming	Undergraduate: B.Tech.	NSHM Knowledge Campus - Durgapur	60, 60, 60	From October 2012 to December 2013
Programming Languages, C and Java, PPL	Undergraduate: B.Tech.	VIIT - Vizag	60	2015, 2016, 2017
Software Architecture	M.Tech	Bharati Vidyapeeth University	18	2015
Research Foundation	M.Tech	Bharati Vidyapeeth University	18	2016
Research Methodology	Ph.D.	Bharati Vidyapeeth University	10	2015
Advance OS, Advance Unix Programming	M.Tech	VIIT - Vizag	18	2016, 2017
Distributed Computing, Data Science	B.Tech	KLU	70, 70	2020, 2021
Computer Networks & Security	M.Tech	KLU	28	2021
Research Methodology	Ph.D.	KLU	34	2020-21
OS	B.Tech	KLU	70	2021-22, 2022-23
Big Data Optimization using R	B.Tech	KLU	70	2022-23

Post Graduate Project/Thesis Guidance:

M.Tech : Successfully guided 28 Projects/and Master Thesis.
M.C.A. : Guided 7 Projects.

Consultancy:

1. Shrimp Counting, weight and size in AquaExchange Ltd., India. (Heavily IT Infrastructure project).
2. Moving Object Recognition, in AquaExchange Ltd., India. (Computer Vision).

Books:

- a. UNIX & SHELL PROGRAMMING, For BCA 3rd. Year 1st. Semester (WBUT Syllabus), MATRIX Educare Pvt. Ltd. 2011.
- b. UNIX & SHELL PROGRAMMING, For MCA 2rd. Year 1st. Semester (WBUT Syllabus), MATRIX Educare Pvt. Ltd. 2009.
- c. COMPUTER PROGRAMMING, For BCA 1st. Year 2nd. Semester (WBUT Syllabus), MATRIX Educare Pvt. Ltd. 2009.
- d. Principles of Programming Languages (PPL), Springer, IE(I) Syllabus.
- e. Object Oriented Programming using Java, Good Land Press, 2010, South Korea, (<http://www.soryang.com/>)

Ph.D. Students:

Current Ph.D. Students: 03

Ph.D. Awarded: 08

Ph.D. Awarded Student(s):

Jeevan Prasad Adhikary, Ph.D. (Computer Science & Engineering), CMJ University, April, 2013, Shilong, India.

Naga Mallik, Ph.D. (IT), Lincoln University, Malaysia, April 2022.

E. Stephen, Ph.D. (IT), Lincoln University, Malaysia, April 2022.

B. Vamsi, Ph.D. (IT), Lincoln University, Malaysia, April 2022.

M. Mahanty, Ph.D. (IT), Lincoln University, Malaysia, June 2022.

D. Bhanu, Ph.D. (IT), Lincoln University, Malaysia, June 2022.

MV Naresh, Ph.D. (IT), Lincoln University, Malaysia, August 2022.

P. Srinivas, Ph.D. (IT), Lincoln University, Malaysia, September 2022.

(On date, All are well placed in Academics or Industry).

Social Status:

Date of Birth: 24.08.1963.

Marital Status: Married.

References:

Dr. Samir Kumar Bandyopadhyay, Professor, University of Calcutta, Kolkata. skb1@vsnl.com Mobile: +91-9831030823

Dr. G.S. Tomar, Director, Govt Engg college, Sonbhadra, UP. gstomar@ieee.org Mobile: 09425744460

Dr. Dipti Prasad Mukherjee, Professor and Dy. Director, Indian Statistical Institute, Kolkata, India.
Email: dipti@isical.ac.in