CURRICULAM VITAE

Personal Information:

Name   Sonia Bhattacharya
Father's Name   Mr. Kalyan Kumar Bhattacharjee
Husband's Name   Mr. Shouvik Roy
Date of birth   06/05/1986
Sex   Female
Languages Known   Bengali, English and Hindi (speak only)
Interests   Reading variety of books and working in research oriented jobs

Carrier Objective:
To work in an educational and research environment and deliver my full potential to build the career of the students.

Contact Details:

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Academic Qualification

STANDARDS	YEAR OF PASSING	SCHOOL/COLLEGE
M. Sc in Computer Science (University of Calcutta)	2009	Barrackpore Rastraguru Surendranath College
B. Sc in Computer Science (University of Calcutta)	2007	Gurudas College
STD XII (W. B. Council of Higher Secondary Education)	2004	Surah Kanya Vidyalaya
STD X (W. B. Board of Secondary Education)	2002	Surah Kanya Vidyalaya

Pursuing PhD from University of Calcutta (Department of Radio Physics and Electronics) on the topic "Studies of Convective Severe Weather Event by Pattern Recognition Techniques"

Skills:

CATEGORY	DETAILS
Operating Platforms	MS DOS, WINDOWS XP, WINDOWS 7, FEDORA, MANDRIVA
Programming Languages	C, C++, Shell Programming, Java, SQL, MATLAB.
Others	Fundamentals, Data Structure-Algorithm, Operating System, Distributed Operating System, Graph Theory, Discrete Mathematics, Networking, DBMS, DDBMS, Compiler, Software Engineering, Architecture(Advanced), Data Mining, Artificial Intelligence

Teaching Experience

COLLEGE NAME	UNIVERSITY NAME	POST	DURATION
Sonarpur Mahavidyalaya	University of Calcutta	Part time lecturer	2009-2010
Gurudas College	University of Calcutta	Guest lecturer	2009-2011
Panihati Mahavidyalaya	West Bengal State University	Contractual Whole Time Teacher (Govt. approved)	2010-2019
Panihati Mahavidyalaya	West Bengal State University	State Aided College Teacher-II	2020-continuing

Journal Paper

Paper Name	Journal Name	Status
Application of Artificial Neural Network to Predict Squall-Thunderstorms Using RAWIND Data	International Journal of Scientific & Engineering Research (ISSN 2229-5518)	Published
Prediction of Severe Thunderstorms applying Neural Network using RSRW Data	International Journal of Computer Applications (0975 – 8887)	Published
Application of K-Nearest Neighbor Technique to Predict Severe Thunderstorms	International Journal of Computer Applications(0975 – 8887)	Published
Forecasting of Severe Thunderstorms using Upper Air data	International Journal of Scientific & Engineering Research (ISSN 2229-5518)	Published

Poster Presentation

Paper Name	Conference Name
APPLICATION OF MULTI-LAYER-PERCEPTRON ON SELECTED WEATHER DATA TO PREDICT SEVERE CONVECTIVE EVENT (Poster Presentation)	TROPMET 2016 – National Symposium on Tropical Meteorology: Climate change and Coastal Vulnerability, Bhubaneswar, Odisha, India, organized by Govt. of India , Govt. of Odisha and Indian Meteorological Department

Conference Preceedigs

Paper Name	Conference Name
Forecasting of Severe Thunderstorms using K-nearest Neighbor Technique (ISBN: 1-60132-442-1)	IPCV 2016 – The 2016 International Conference on Image Processing, Computer Vision and Pattern Recognition (Las Vegas Nevada, USA)
Application of Machine Learning Technique to Nowcast Severe Atmospheric Event (ISBN: 1-60132-485-5)	IPCV 2018 – The 2016 International Conference on Image Processing, Computer Vision and Pattern Recognition (Las Vegas Nevada, USA)
A Comparative Study between True Color and Gray Scale Radar Imageries of Thundercloud. ISBN 978-981-15-8365-0	CODEC 7th International Conference on Computers and Devices for Communications (Hotel Taj Gateway, Kolkata), 2019. Organized by Institute of Radio Physics and Electronics, University of Calcutta and Springer
Forecasting Severe Thunderstorm by applying SVM Technique on Cloud imageries	6th International Conference on Data Management, Analytics & Innovation,January 14-16, 2022

Book Chapter

Chapter Name	Book Name
Studies on Radar Imageries of Thunder Cloud by Image Processing Technique (ISBN: 978-981-329-948-1)	Data Management, Analytics and Innovation (Volume 1). Publisher: Springer Singapore, 2020
A Comparative Study Between True Color and Grayscale Radar Imageries of Thundercloud (ISBN 978-981-15-8365-0)	Lecture Notes in Networks and Systems (Volume 147). Computers and Devices for Communication. Publisher: Springer Singapore, 2021
Forecasting Severe Thunderstorm by Applying SVM Technique on Cloud Imageries (ISBN 978-981-19-2599-3)	Lecture Notes on Data Engineering and Communications Technologies (Volume 137). Data Management, Analytics and Innovation. Publisher: Springer Singapore, 2023

Citations

Paper Name	Author's Name	Journal Name
An Efficient Approach towards Thunderstorm Detection Using Saliency Map	Rasika P. Gawande, Prof. Namrata D. Ghuse	International Journal of Computer Science and Information Technologies, Vol. 6 (3) , 2015, 2429-2434 ISSN NO: 0975-9646
An Image Mining Approach For Thunderstorm Detection Using Saliency Maps	Miss. Pranali S. Doifode, Prof. Jayant Rohankar	International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 4 Issue: 1
Thunderstorm detection and its equivalent knowledge representation with wavelength based image Segmentation.	Miss Vasanti Y. Gaud, Prof. Mr. S. S. Kulkarni	Satellite Conference ICSTSD 2016 International Conference on Science and Technology for Sustainable Development, Kuala Lumpur, MALAYSIA, May 24-26, 2016
THERMAL MANAGEMENT INSIDE ACOUSTIC ENCLOSURE IN MOBILE POWER GENERATION SYSTEM (MPGS) FOR MILITARY ENGINEERING APPLICATIONS	PROF. P. S. RATHOD, PROF. A. J. MORE, K. P. RATHOD, P. M KULURKAR	INTERNATIONAL JOURNAL OF PURE AND APPLIED RESEARCH IN ENGINEERING AND TECHNOLOGY, ISSN: 2319-507X, 2015; Volume 3 (9): 1897-1907
Thunderstorms and lightning Detection System using Hybrid Approach	Rasika V. Kalbende† and Nitin A. Shelke	International Journal of Current Engineering and Technology E-ISSN 2277 – 4106, P-ISSN 2347 – 5161, Feb 2015, Vol.5, No.1
Book Name	**Editors Name**	**Publication House**
Soft-Computing –Based Nonlinear Control Systems Design	Edited by Uday Pratap Singh, Akhilesh Tiwari and Rajeev Kumar Singh	IGI Global Disseminator of Knowledge ISBN: 978-1522535317

Act as examiner as well as external examiner for practical examination for both University of Calcutta and West Bengal State University at Different colleges and also as paper setter in West Bengal State University.