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Positions Held

1996 – Present

Professor

Dept. of Computer Science

The University of Burdwan



Education

2004

Ph.D. in Computer Science

The University of Burdwan

1992

M.C.A.

Jadavpur University

1989

M.Sc. in Mathematics

Jadavpur University

1987

B.Sc. in Mathematics

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Research

Research Interests

Natural Language Processing

Information Retrieval

Sentiment Analysis

Opinion Mining

Soft Computing

Fuzzy Logic

Neural Networks

Big Data Analytics

PhD Awardees

Name	Thesis Title	Year
Dipendranath Ghosh	A Parallel Computational Approach to Investigate the Variability of Time Dependent Data	2008
Amartya Neogi	Studies on Performance Evaluation of Indian Education Using Fuzzy System	2013
Taraknath Paul	Studies on Shortest Path Using Genetic Algorithm	2015
Biswajit Halder	Studies on Automatic Authentication of Printed Security Documents	2016
Sumanta Ray	Studies on Performance Evaluation of Medical Education System Using Classification Models	2018
Pabitra Kumar De	Studies on Multi Criteria Optimum Computation in IPL Using Expert System	2018

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Languages:

English, Bengali, Hindi (speak)

Date of Birth:

27 February, 1964

Marital Status:

Married

PhD Scholars currently registered

Name	Thesis Title
Amitabha Bandyopadhyay	Study and Improvement of Software Quality using Data Mining Techniques
Madhusudan Chakraborti	A Study of Reverse Conversion Algorithms for Signed-digit number systems
Santanu Modak	A Computational Study of Sentiment Analysis from User Opinion
Sanjib Mandal	Opinion Mining: A Study and New Dimension
Sourabh Maitra	Study of Learning Management Systems in Semantic Web Framework working on Cloud Computing Environment



Book Chapters

1. A.C. Mondal, S. Karforma, "Computer Fundamental and Programming in C" (Copyright-2007), published by The Directorate of Distance Education, The University of Burdwan, Co-Author: Dr. S. Karforma.
2. A.C. Mondal, S. Karforma, "Internet and E-Commerce" (Copyright-2007), published by The Directorate of Distance Education, The University of Burdwan.
3. A. Neogi, A.C. Mondal, S.K. Mondal, "Computational Intelligence Using Type-2 Fuzzy Logic Framework", pages 1-29, IGI GLOBAL (Jan. 2013).
4. S. Mitra, A.C. Mondal, "Intelligence in Web Technology", pages 739-757, IGI GLOBAL (Jan. 2013).



Journal Articles

1. Pabitra Kumar Dey, Dipendra Nath Ghosh and Abhoy Chand Mondal, "Multi-Criteria Decision Tree Approach to Classify All-rounder in Indian Premier League", in International Journal of Advanced Science and Technology (IJAST-SERSC), ISSN: 2005-4238, Vol. 52, pp-93-100. Available: <http://www.sersc.org/journals/IJAST>.
2. P.K.Dey, D.N.Ghosh, A.C.Mondal, "Statistical Based Multi-Criteria Decision Making Analysis for Performance Measurement of Batsmen in Indian Premier League" in International Journal of Advanced Research in Computer Science (IJARCS), ISSN 0976-5697, Vol. 3 No. 4 (July-August 2012), pp- 51-57. Available: <http://www.ijarcs.info>.
3. A. Neogi, A.C.Mondal, S.K.Mandal, "A cascaded fuzzy inference system for university non-teaching staff performance appraisal", Journal of Information Processing Systems (Koria), Volume 7, Number 4, 2011, pp595-612.

4. Pabitra Kumar Dey, Dipendra Nath Ghosh and Abhoy Chand Mondal, "A MCDM Approach for Evaluating Bowlers Performance in IPL", in Journal of Emerging Trends in Computing and Information Sciences, ISSN 2079-8407, Vol-2, No-11, November 2011, pp- 563- 573. Available: <http://www.cisjournal.org>.
5. Achintya K. Mandal, UtpalRoy,A.C.Mondal, "E-Content Management and Delivery in Digital Library: A software approach", Jr of IUP, March 2012.
6. A. Neogi, A.C.Mondal, S.K.Mandal, "Evaluation of equal grade students using fuzzy logic", International Journal of Information and Computing Science, Vol.13, No.1, June 2010.
7. A.Neogi,A.C.Mondal,S.K.Mandal, "A Fuzzy Modeling approach to evaluate faculty Performance", ACM Ubiquity, Vol 9, Issue 15, April 15-21, 2008.
8. P.K.Dey,D.N.Ghosh,A.C.Mondal, "Modified Group Decision Algorithm for Performance Appraisal of Indian Premier League Cricketers",communicated and accepted in International Journal of Sports Science and Engineering (World Academic Union), ISSN: 1750-9831.
9. M. S. Chakraborty, A. C. Mondal, Reverse Conversion Scheme for Signed – digit Number System: Transforming Radix – complement output, IJECS/ Telkomnika (Scopus-indexed), Vol. 4, No. 3, 2016.
10. M. S. Chkraborty, T. Ghosh, A. C. Mondal, Notes on "a novel conversion scheme from a redundant binary number to two's complement binary number for parallel architectures " proposed by Choo et. al. 103 (5), 2014, pp 5 – 7, IJCA.
11. A.C.Mondal,S.Ray, K.Dey,A.Neogi, "Studies on Performance Evaluation of Homeopathic Treatment for Essential Hypertension Using Principle Component Analysis",The Journal of Management,Information Technology and Journalism, IMS Manthan, Noida(India), ISSN:0974-7141(Print),Jan-June Edition,2015,Vol.- X, Issue 1.
12. Sumanta Ray, A.C.Mondal, A.Neogi, "Studies on Performance Evaluation of Homeopathic Medicine for Essential Hypertension using Fuzzy Systems", INDIAN SCIENCE CRUISER(International Scientific Journal), ISSN:0970-4256(Print). Vol.-29,No.- 2, March-2015)
13. A.C.Mondal, S.Ray,"A new student ranking system by identifying important parameters using principal component analysis:A case study for class 10 level students", International Journal of Advanced Research in Computer Science & Technology(IJARCST). ISSN: 2347-8446(Online),ISSN: 2347-9817(Print).(Accepted)
14. B.Halder, U.Garain, R.Darbar, A.C.Mondal, "Inverse of Low Resolution Line Halftone Images for Document Inspection". Computational Forensics, 95-103.
15. S.Modak,A.C.Mondal,"A Study on Sentiment Analysis", International Journal of Advanced Research in Computer Science and Technology(IJARCST 2014),Vol.-2,Issue-2,Version-2, April-June-2014.ISSN-2347-8446(online),ISSN-2347-9817(print)
16. Sohom Ghosh, SantanuModak, Abhoy Chand Mondal," A Model of Opinion Mining for Classifying Movies", International Journal of Advanced Research in Computer Science & Technology (IJARCST 2015), Vol. 3, Issue 1 (Jan. - Mar. 2015), ISSN : 2347 - 8446 (Online) ISSN : 2347 - 9817 (Print)
17. Santanu Modak, Abhoy Chand Mondal," A Model of Structured Opinion Format", International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4, Issue 5, May 2014 ISSN: 2277 128X.
18. Sohom Ghosh, Santanu Modak and Abhoy Chand Mondal, " A Model to Compute Degree of Polarity of Review Titles", Annals of Pure and Applied Mathematics, Vol. 7, No. 1, 2014, 65-70 ISSN: 2279-087X (P), 2279-0888(online), Published on 9 September 2014, www.researchmathsci.org.
19. Santanu Modak, Abhoy Chand Mondal, " A Comparative study of Classifiers' Performance for Gender Classification", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 2, Issue 5, May 2014, ISSN(Online): 2320-9801 ISSN (Print): 2320-9798.
20. Pabitra Kumar Dey, Abhoy Chand Mondal, "Compute Attributes Contribution for Player Pricing in IPL", in Annals of Pure and Applied Mathematics (APPM), ISSN: 2279-087X (P), 2279-0888(online), Vol. 5, No.1, 11-16, November 2013,available: <http://www.researchmathsci.org/APAMtoc.html>

21. A.C.Mondal,S.Ray, "A new student ranking system by identifying important parameters using principal component analysis:A case study for class 10 level students", International Journal of Advanced Research in Computer Science & Technology(IJARCST), 2016, Volume 5, Issue 1, ISSN: 2347-8446(Online),ISSN: 2347-9817(Print).
22. S.Ray,A.C.Mondal,P.Mukhopadhyay,A.Neogi "A Computational Model to Identify the Manner of Death in Head Injury using Classification Methods", International Journal of Computing and Applications, Published by Serials Publicatuions,2017, ISSN: 0973-5704.
23. S. Ray, A.C.Mondal, A.Neogi, K.Dey, "A Study to Evaluate Symptoms in Essential Hypertension using Random Forest Decision Tree Algorithm", INDIAN SCIENCE CRUISER(International Scientific Journal), published by Institute of Science, Education and Culture, Vol.-31, No.4, July 2017 pp.28-35, ISSN:0970-4256(UGC Approved).
24. S.Ray,A.C.Mondal,"A Brief Description of software tools used for Big Data Analysis in Medical Education Systems Evaluation", Indian Journal of Computer Science and Engineering, 2017, p-ISSN: 2231-3850, e-ISSN: 0976-5166. (Communicated).
25. Pabitra Kumar Dey and Abhoy Chand Mondal, "Fuzzy Inference Rule & Decision Tree based Player Base Price Classification in IPL", communicated to International Journal of Information and Decision Sciences (IJIDS), Indercience Publishers, ISSN: 1756-7017, ISSN (E): 1756-7025.
26. Pabitra Kumar Dey and Abhoy Chand Mondal, "Optimum Cricket Team Selection in IPL: An Expert System Approach", communicated to International Journal of Applied Decision Sciences (IJADS), Indercience Publishers, ISSN: 1755-8077, ISSN (E): 1755-8085.
27. Biswajit Halder and Abhoy C. Mondal, "Modelling of Ink-Colour degradation on old printed documents", *InderScience*, International Journal of Computational Vision and Robotics (IJCVR 2017), IJCVR-83454, Vol-7, Issue-4, pp.398-410.
28. D.N.Ghosh, K.Ghosh, A.C.Mondal, "Finite Variable Scaling Analysis of Monthly Data of the Sunspot Numbers", IJICS, 2006,Vol.8, No.2, pp.29-32.
29. D.N.Ghosh, K.Ghosh, A.C.Mondal, "Search for Periodicity in a Time Series Data by Group Method of Data Handling Algorithm", IJICS, 2007,Vol.9, No.2,pp.68-72.
30. Sumanta Daw, Dr. A. C. Mondal, "A Font Invariant Ol Chiki Basic Character Recognition using Digital Curvlet Transformation", published in International Journal of Mathematics and Computational methods in Science and Technology (ISSN: 2249-8915), September-2013.



Conference Papers

1. M. S. Chakraborty, S Sao, A C Mondal, Equivalence of Reverse Conversion of Binary Signed-Digit Number System and Two's-Complement to Canonical Signed-Digit Recording, IEEE International Conference on Recent Advancement of Information Technology (RAIT), IIT (ISM), Dhanbad, India, vol. 2, 2018, pp 662 - 666.
2. P.K.Dey ,A.C.Mondal, "Compute Attributes Contribution for Player Pricing in IPL", communicated and included in Proc. of "STCAOT-2013: 13-17 November, 2013.
3. Sonu Rana ,A.C.Mondal,"A Rough set decision in an interview selection problem:Analgorihimic approach ", in the proceedings of Iernational Conference of ICCS-2013, held at The University of Burdwan (Dept. of Computer Science), Burdwan, India, pp. 186-192, 21st - 22nd September,2013.
4. SumantaDaw,A.C.Mondal ,"A Front Invariant OlChiki Basic Character Recognition using Digital Curve-let Transformation", in the proceedings of International Conference of ICCS-2013, held at The University of Burdwan (Dept. of Computer Science), Burdwan, India, pp. 330-334,21st -22nd September,2013.
5. Taraknath Pal,A.C.Mondal,"Combination of graph does not affect the execution of finding group of shorter path algorithm", in the proceedings of International Conference of ICCS-2013, held at The University of Burdwan (Dept. of Computer Science), Burdwan, India, pp. 348-356, 21st -22nd September,2013.
6. S.Ray,A.C.Mondal,A.Neogi,"A study of the development of principal component analysis using neural network in assessment of higher education system", in the proceedings of National Conference of NaCCS-2012, held at The University of Burdwan (Dept. of Computer Science), Burdwan, India, pp. 100-104, 15th March- 16th March,2012.
7. A.C.Mondal, S.Ray, "Tourist Spot by using Principal Component Analysis" , in the proceedings of third International Conference of ICCS-2016, held at The University of Burdwan (Dept. of Computer Science), Burdwan, India.

9. S.Maitra,A.C.Mondal, "Web Technology Enhancements:Accomplishments and Future Research Directions", in the proceedings of National Conference of NaCCS-2012, held at The University of Burdwan (Dept. of Computer Science), Burdwan, India, pp.236-241, 15th March- 16th March,2012.
10. Taraknath Pal,A.C.Mondal,“CONSTITUTE A SUB-GRAPH WITH n-levels TO SEARCH A SET OF SHORTER PATHS USING GENETIC ALGORITHM”, IEEE International Conference on Intelligent Computing and Intelligent Systems (ICIS 2011), in Guangzhou, China during November 18-20, 2011.
11. A.Neogi,A.C.Mondal,S.K.Mondal,“The fuzzy TOPSIS method for engineering students’ performance evaluation in an industrial automation area”, Proceedings of National Conference on Industrial Engineering, WBUT, Kolkata 17-18 Feb., 2011.
12. A. Neogi,A.C.Mondal,S.K.Mondal, “E-learning course evaluation using fuzzy numbers associated with degrees of confidence”, Proceedings of International Conference on Scientific Paradigm Shift in Information Technology & Management, Institute of Engineering & Management, Kolkata, 5-6 January, 2011.
13. Tarak Nath Paul ,A.C.Mondal,“Intelligent Travelling Method using Genetic algorithm for Long Distance”, ICCS-2010, 19-20 Nov. 2010, pp:69-74.
14. BiswajitHalder,A.C.Mondal, “Age based Color level Variation of ancient Documents”, ICCS-2010, 19-20 Nov. 2010. PP75-79.
15. Achintya K. Mandal, A.C.Mondal,Utpal Roy, “Greedy Approach to Graph-Based Algorithm for Color Image Segmentation”, ICCS-2010. 19-20 Nov. 2010, pp42-47.
16. Pabitra Kr. Dey,A.C.Mondal, G. Chakraborty “Fuzzy Classification using Decision Tree Algorithms”, ICCS-2010, 19-20 Nov. 2010, pp133-138.
17. S. Maitra,A.C.Mondal, “A Study of web Mining Research – Last few years and the Road Ahead”, ICCS-2010, 19-20 Nov. 2010, pp270-275.
18. B.Halder,A.C.Mondal,“Color Based Age Determination on Printed Document” published on National Conference on computing and systems (NACCS ’10) Burdwan, W. Bengal, India, Feb. 2010, pp.42-46.
19. T. Paul,A.C.Mondal, “Faster Genetic Algorithm for Traverse Large Distance”, NACCS-2010, Feb. 2010, pp.56-59.
20. P.K.Dey , P.S. Goswami ,A.C.Mondal,“Quantum Cryptography : Security through uncertainty”, NACCS-2010, Feb.2010, pp.86-90.
21. “Fuzzy evaluation of Students Rank using automatically adjusted question marks”, In National Conference on Recent Trends in Engg. & Education, Org. NITTTR, Kolkata, 2^{8th} Feb., 2010. Co-authors: A. Neogi, S.K.Mandal,
22. A. Neogi,A.C.Mondal,S.K.Mondal“A fuzzy system for faculty selection using automatically adjusted selection marks”, In National Conference on Computing & Systems, Org. Dept. Comp. Sc., Burdwan University,, 29th Feb., 2010.
23. A. Neogi,A.C.Mondal,S.K.Mondal “College teachers’ performance appraisal using weighted fuzzy reasoning”, Proceedings of ICCS, Burdwan University, 19-20 Nov., pp. 156-162 .
24. A. Neogi,A.C.Mondal,S.K.Mondal, “Application of Fuzzy logic in Human Resource Management”, In 12th International & 43rd National Conference of Indian Academy of Applied Psychology,7-9 February, 2008, by Calcutta University, NITTTR & ISI, Kolkata.
25. A. Neogi,A.C.Mondal,S.K.Mondal ,“A Study of Development of Soft Computing in Evaluation of Gifted Students”. Proceedings of UGC sponsored National Symposium of Emerging trend of Computer Science(ETCS-2012), 20-21 Jan 2012, pp101-105.
26. A. Neogi,A.C.Mondal,S.K.Mondal ,“Student learning style Evaluation in E-learning framework using a Back propogation Neural Network Method”. Proceedings of 2nd National Conference(ETEI-2011), Organised byNITTTR, Kolkata, 16-17 Feb.2012, pp.01-06.
27. B.Halder,A.C.Mondal,"Currency note authentication checking by fluorescent paper pulp", in the proceedings of National Conference of NaCCS-2012, held at The University of Burdwan (Dept. of Computer Science), Burdwan, India, pp. 233-235, 15th March- 16th March,2012.
28. S.Ray, A.C.Mondal,“ A New Approach to Evaluate a Tourist Spot by using Principal Component Analysis”, in the proceedings of third International Conference of ICCS-2016, held at The University of Burdwan (Dept. of Computer Science), Burdwan, India.
29. Sumanta Daw, Dr. A. C. Mondal, “A Font Invariant OI Chiki Basic Character and Digit Recognition”, was published in Second International Conference on Computing and System – 2013, September, 2013.
30. Sumanta Daw, Dr. A. C. Mondal, “A Hybrid Recognition System of Handwritten OIChiki Character and Digit”, has been accepted for presentation at the IJCNN 2018 and for publication inthe conference proceedings published by IEEE World Congress on Computational Intelligence, July, 2018, Brazil.

