Name: Jayati Ghosh Dastidar

Qualification: M. E. (IT)

Profile: Her teaching experience includes both theoretical as well as practical Computer Science topics both at the UG as well as the PG level. She specializes in the teaching of courses such as Object Oriented Technology, Compiler Design, Automata Theory, Digital Image Processing, Digital Electronics, Computer Organisation, Data Structure, Mobile Communication, Parallel Architecture, etc. Her research interests are in the area of Digital Image Processing and Pattern Recognition.

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Minor Research Project

Title – **Automated CCTV Surveillance.**
Duration – 2 years
Description – This is a Minor Research Project funded by UGC under the XII th. plan. The Project has been completed in April' 2016. The objective of the project was to automate the CCTV surveillance system so that intrusions can be automatically detected without needing human interventions.

Publications

Conference Publications –

1. "Handwriting Recognition", Jayati Ghosh Dastidar, et al., AICTE sponsored National Seminar on Paradigm Shift in Education Technology & Content Management, E-TCM 2012, ISBN No. 978-81-923034

2. "A Study on the Feasibility of E-Learning in the Field of Higher Education", Jayati Ghosh Dastidar, et al., UGC sponsored seminar on ICT in Higher Education-Opportunities and Challenges in the 21st Century held on 28th March, 2012 at St.Xavier's College, Kolkata (Autonomous), ISBN: 978-81-924140- 0-3

3. "Tracking human intrusion through a CCTV", Jayati Ghosh Dastidar, Rana Biswas, IEEE conference CICN 2015, December 2015, DOI - 10.1109/CICN.2015.95, Pages: 461-465, ISBN: 978-1-5090-0076-0/15

4. "Human form identification from a video stream using support vector machine", Jayati Ghosh Dastidar, 3rd. IEEE conference ICBIM 2016, January 2016, ISBN: 978-1-5090-1228-2/16.

5. "Intrusion Detection using SVM in a Video sequence and Signaling an Alarm through Arduino UNO", Jayati Ghosh Dastidar, et. al., International Conference on Computational Science and Engineering [ICCSE2016], October 2016, CRC Press (Taylor and Francis) ISBN: 978-1-138-02983-5.

6. “Design of a voice-based system by recognizing speech using MFCC”, Jayati Ghosh Dastidar, et. al., International Conference on Computational Science and Engineering [ICCSE2016], October 2016, CRC Press (Taylor and Francis) ISBN: 978-1-138-02983-5.

7. “SVM Based Method for Identification and Recognition of Faces by Using Feature Distances”, Jayati Ghosh Dastidar, et. al.,6th. International Conference on FICTA, October 2017, Book: Intelligent Engineering Informatics, Advances in Intelligent Systems and Computing series Print ISBN: 978-981-10-7565-0, Electronic ISBN: 978-981-10-7566-7, Copyright Year: 2018, https://doi.org/10.1007/978-981-10-7566-7, DOI: https://doi.org/10.1007/978-981-10-7566-7_4, Springer Singapore, Pg. 29-37.

8. “A simplistic correlation based method for recognizing hand-written characters”, Jayati Ghosh Dastidar, et. al., National Level Seminar on Development of Engineering Glossary in vernacular languages, MHRD, December 2017.

9. “Voice Signal Analysis using Discrete Wavelet Transformation“, Jayati Ghosh Dastidar, et. al., National Level Seminar on Development of Engineering Glossary in vernacular languages, MHRD, December 2017.

Journal Publications –

1. “A Simplistic approach for Recognition of Geometrical Shapes using Fuzzy Logic”, Jayati Ghosh Dastidar, et. al., Aviskaar Jan 2014, Volume VI, Pages 43-47.

2. “Human Shape Variation - An Efficient Implementation using Skeleton”, Jayati Ghosh dsatidar, et. al., IJACR, Volume-4 Number-1 Issue-14 March-2014, Pages 145-150.

3. “An automatic and efficient foreground object extraction scheme”, Jayati Ghosh Dastidar, et. al., IJSAIT, Volume 3, No. 2, March-April 2014, Pages 40-43.

4. “Hand Gesture Recognition Library”, Jayati Ghosh Dastidar, et. al., IJSAIT, Volume 3, No. 2, March-April 2014, Pages 44-50.

5. “Tracking Direction of Human Movement – An Efficient Implementation using Skeleton”, Jayati Ghosh Dastidar, et al., IJCA – Vol 96, no. 13, June 2014, (Pg. 27-33) DOI - 10.5120/16855-6722.

6. “A Simplistic Mechanism for Query Cost Optimization”, Jayati Ghosh Dastidar, et. al., IJACR, Volume 5, Issue 19, June 2015, Pages: 205-211.

7. “Data Hiding in Video using Triangularization LSB Technique”, Jayati Ghosh Dastidar, et.al., IJATCSE, Volume 4, no. 3, May-June 2015, Pages 44-47.

8. “SVM Based Classification of Sounds from Musical Instruments using MFCC Features”, Sayantani Nandi, Madhura Banerjee, Parangama Sinha, Jayati Ghosh Dastidar, IJARCS, ISSN No. 0976-5697 , Volume 8, no. 5, May-June 2017, Pages 2144-2147, doi:http://dx.doi.org/10.26483/ijarcs.v8i5.3798.

9. Jayati Ghosh Dastidar, June 17 Volume 5 Issue 6, “A Treatise on the use of Finger Print for a Biometric Authentication System”, International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), ISSN: 2321-8169, PP: 1261 – 1265, doi: 10.17762

10. Jayati Ghosh Dastidar "An Authentication Protocol based on Kerberos" Vol. 7 - Issue 7 (July - 2017), International Journal of Engineering Research and Applications (IJERA) , ISSN: 2248-9622 , www.ijera.com, doi: 10.9790/9622-0707047074.

11. Jayati Ghosh Dastidar, et. al., “Image Restoration using DWT in a Tile based manner”, International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-04, Issue-05, Aug 2018, Pg. 413-418.

Book Contributions –

1. Contributed a chapter in the book “Object Oriented Programming with C++”, McGraw Hills Education by E. Balaguruswamy, 7th. edition, 2017, in the form of the writer of the Major Project (Pg.: 471-489), ISBN: 978-93-5260-799-0.

2. Jayati Ghosh Dastidar, et. al. “Analysis of Human Gait for Designing a Recognition and Classification System”. A Book Chapter in Intelligent Innovations in Multimedia Data Engineering and Management (pp. 186-200). Hershey, ISBN13: 9781522571070|ISBN10: 1522571078|EISBN13: 9781522571087 PA: IGI Global. doi:10.4018/978-1-5225-7107-0.ch008, Sep 2018, Copyright year 2019.

Book Review –

1. Reviewed the book, “Programming using C”, Gottfried, edition, Schaum Series, McGraw Hills

2. Reviewed two book chapters in Computer Fundamentals and C Programming By, Sumitabha Das, First Edition, McGraw Hills Education, 2018.

3. Reviewed two book chapters in Programming in Java, By, E. Balaguruswamy, McGraw Hills Education.