

## List of publications of Anandarup Roy

### Journal Papers:

1. **Anandarup Roy** and Swapan K. Parui, *Pair Copula Based Mixture Models and their Application in Clustering*, Pattern Recognition, Elsevier, **IF: 2.632 (2012)**, *To appear*.
2. **Anandarup Roy**, Swapan K. Parui and Utpal Roy, *A Mixture Model of Circular-Linear Distributions for Color Image Segmentation*, International Journal of Computer Applications, Foundation of Computer Science, Vol. 58(9), pp. 6-11, 2012.
3. Ranjit Ghoshal, **Anandarup Roy** and Swapan Kumar Parui, *Recognition of Bangla Text from Outdoor Images using Decision Tree Model*, Submitted, 2012.
4. Tapan Kumar Bhowmik, Pradip Ghanty, **Anandarup Roy** and Swapan Kumar Parui, *SVM-Based Hierarchical Architectures for Handwritten Bangla Character Recognition*, International Journal of Document Analysis and Recognition (IJDAR), **IF: 1.213 (2009)**, springer, Vol. 12, pp. 83- 96, 2009.
5. P. Ghanty, S. Paul, **A. Roy**, D. P. Mukherjee, N. R. Pal, M. Vasudevan, H. Kumar and A.K. Bhaduri, *A Fuzzy Rule Based Approach for Predicting Weld Bead Geometry in Gas Tungsten Arc Welding*, Science and Technology of Welding and Joining (STWJ), **IF: 1.327 (2009)**, Vol. 13(2), pp. 167- 175, 2008.

### Conference Proceedings:

1. Ranjit Ghoshal, **Anandarup Roy** and Swapan K. Parui, *A Copula Based Statistical Model for Text Extraction from Scene Images*, Accepted in Int. Conf. on Pattern Recognition and Machine Intelligence (PreMI), Springer-Verlag, 2013.
2. **Anandarup Roy**, Swapan K. Parui and Utpal Roy, *A Pair-copula Based Scheme for Text Extraction from Digital Images*, Proc. of Int. Conf. on Document Analysis and Recognition (ICDAR), pp. 892-896, IEEE CS press, August 2013, Washington, DC.
3. **Anandarup Roy**, Swapan Kumar Parui and Utpal Roy, *A Finite Mixture Model Based on Pair-Copula Construction of Multivariate Distributions and its Application to Color Image Segmentation*, Proc. of the Indian Conf. on Computer Vision, Graphics and Image Processing (ICVGIP), DOI: 10.1145/2425333.2425343, ACM Digital, December 2012, India.
4. Ranjit Ghoshal, **Anandarup Roy** and Swapan K. Parui, *Text Extraction from Scene Images using Statistical Distributions*, Proc. of the Int. Conf. on Emerging Applications of Information Technology (EAIT- 2012), pp. 187–190, IEEE CS press, November 2012, India.

5. Ranjit Ghoshal, **Anandarup Roy**, Tapan Kumar Bhowmik and Swapan Kumar Parui, *Headline based text extraction from outdoor images*, Proc. of the Int. Conf. on Pattern Recognition and Machine Intelligence (PReMI- 2011), pp. 446–451, Springer-Verlag, Russia.
6. Ranjit Ghoshal, **Anandarup Roy**, Tapan Kumar Bhowmik and Swapan Kumar Parui, *Decision Tree Based Recognition of Bangla Text from Outdoor Scene Images*, Proc. of the Int. Conf. on Neural Information Processing (ICONIP- 2011), pp. 538-546, Springer-Verlag, November 2011, China.
7. Ranjit Ghoshal, **Anandarup Roy** and Swapan Kumar Parui, *Recognition of Bangla text from Scene Images through Perspective Correction*, Proc. of the Int. Conf. on Image Information Processing (ICIIP- 2011), pp. 1-6, IEEE CS press, November 2011, India.
8. **Anandarup Roy**, Swapan Kumar Parui, Debyani Nandi and Utpal Roy, *Color Image Segmentation Using a Semi-wrapped Gaussian Mixture Model*, Proc. of the Int. Conf. on Pattern Recognition and Machine Intelligence (PReMI- 2011), pp. 148-153, Springer-Verlag, June 2011, Russia.
9. Ranjit Ghoshal, **Anandarup Roy** and Swapan Kumar Parui, *Headline Based Text Extraction from Outdoor Images*, Proc. of the Int. Conf. on Pattern Recognition and Machine Intelligence (PReMI- 2011), pp. 446-451, Springer-Verlag, June 2011, Russia.
10. **Anandarup Roy**, Swapan Kumar Parui and Utpal Roy, *TASOCNN: A Topology Adaptive Self-Organizing Circular Neural Network and its Application to Color Segmentation*, Proc. of the Indian Conf. on Computer Vision, Graphics and Image Processing (ICVGIP), DOI: 10.1145/1924559.1924616, ACM Digital, December 2010, India.
11. **Anandarup Roy**, Swapan Kumar Parui, Amitav Paul and Utpal Roy, *Color Based Image Segmentation*, Proc. of Int. Conf. on Information Technology (ICIT- 2008), pp. 254-255, IEEE CS press, December 2008, India.
12. **Anandarup Roy**, Swapan Kumar Parui, Amitav Paul and Utpal Roy, *A Color Based Image Segmentation and its Application to Text Segmentation*, Proc. of Indian Conf. on Computer Vision, Graphics and Image Processing (ICVGIP- 2008), pp. 313- 319, IEEE CS press, December 2008, India.
13. Tapan Kumar Bhowmik, Pradip Ghanty, **Anandarup Roy**, Swapan Kumar Parui and Utpal Roy, *Skew Correction and Character Segmentation for Handwritten Bangla Words using Support Vector Machine*, Proc. of Int. Conf. on Information Technology (INTL-INFOTECH 07), pp. 572-577, March 2007, India.

14. P. Ghanty, **A. Roy**, N.R. Pal, D.P. Mukherjee, H. Kumar, M. Vasudevan, A.K. Bhaduri and P. Barat, *Fuzzy Logic and Image Processing based Approaches for Estimation of Weld Bead Geometry*, Proc. of 9<sup>th</sup> Technical Programme Discussion Meeting of BRNS Projects (TPDM), pp. 20-27, February 2007, India.
15. **Anandarup Roy**, Swapan Kumar Parui and Utpal Roy, *A Beta Mixture Model Based Approach to Text Extraction from Color Images*, Proc. of Int. Conf. on Advances in Pattern Recognition (ICAPR- 2007), pp. 321-326, World Scientific, January 2007, India.
16. **Anandarup Roy**, Prabhat Kumar Ray and Swapan Kumar Parui, *Text Extraction from Color Images using a Mixture Model of Dirichlet Distributions*, Proc. of National Conf. on Recent Trends in Information Systems (ReTIS 06), pp. 37-40, July 2006, India.
17. **A. Roy**, T.K. Bhowmik, S.K. Parui and U. Roy, *A Novel Approach to Skew Detection and Character Segmentation for Handwritten Bangla Words*, Proc. of Digital Image Computing: Techniques and Applications (DICTA 2005), pp. 203-210, IEEE CS Press, December 2005, Australia.
18. T.K. Bhowmik, **A. Roy** and U. Roy, *Character Segmentation for Handwritten Bangla words using Artificial Neural Network*, Proc. of International Workshop on Neural Networks and Learning in Document Analysis and Recognition (NNLDAR), pp. 28-32, August 2005, Korea.