

Selected Refereed Publications in International Conferences/Symposiums/Workshops:

1. Shounak Datta, Sankha Subhra Mullick, Anish Chakrabarty, and **Swagatam Das**, Interval Bound Interpolation for Few-shot Learning with Few Tasks, Accepted for **40th International Conference on Machine Learning (ICML 2023)**, Hawaii Convention Center, USA.
2. Sandipan Dhar, Nanda Dulal Jana, and **Swagatam Das**, Voice Conversion Using Feature Specific Loss Function based Self-Attentive Generative Adversarial Network, **IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2023)**, Greek island of Rhodes, June 04 - June 10, 2023.
3. Chandramauli Chakrabarty, Sayan Paul, Saptarshi Chakraborty, and **Swagatam Das**, Clustering High-dimensional Data with Ordered Weighted L1 Regularization, accepted for presentation at the **26-th International Conference on Artificial Intelligence and Statistics (AISTATS 2023)**, PMLR 206: 7176 - 7189, Valencia, Spain, April 25 - April 27, 2023.
4. Abhishek Kumar, **Swagatam Das**, and Rammohan Mallipeddi, UEQMS: UMAP Embedded Quick Mean Shift Algorithm for High Dimensional Clustering, **Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI 2023)**, **Accepted for Oral Presentation**.
5. Abhishek Kumar, Oladayo S. Ajani, **Swagatam Das**, Rammohan Mallipeddi, GridShift: A Faster Mode-Seeking Algorithm for Image Segmentation and Object Tracking, **Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022**, pp. 8131 - 8139, **Accepted for Oral Presentation**.
6. Anish Chakrabarty and **Swagatam Das**, On Translation and Reconstruction Guarantees of the Cycle-Consistent Generative Adversarial Networks, **Thirty-sixth Conference on Neural Information Processing Systems, NeurIPS 2022**, 28 Nov - 9 Dec, 2022, New Orleans, USA.
7. Anish Chakrabarty and **Swagatam Das**, Statistical Regeneration Guarantees of the Wasserstein Autoencoder with Latent Space Consistency, **NeurIPS 2021 (Thirty-fifth Conference on Neural Information Processing Systems)**, **Spotlight Acceptance**.
8. Debolina Paul, Saptarshi Chakraborty, **Swagatam Das**, Jason Xu, Uniform Concentration Bounds toward a Unified Framework for Robust Clustering, **NeurIPS 2021 (Thirty-fifth Conference on Neural Information Processing Systems)**, **Spotlight Acceptance**.
9. Saptarshi Chakraborty, Debolina Paul and **Swagatam Das**, Automated Clustering of High-dimensional Data with a Feature Weighted Mean Shift Algorithm, **AAAI 2021 (35th AAAI Conference on Artificial Intelligence)**, Accepted, 2021.
10. Sayak Dey, **Swagatam Das**, and Rammohan Mallipeddi. The sparse minmax k-means algorithm for high-dimensional clustering, **IJCAI 2020 (29th International Joint Conference on Artificial Intelligence)**, pp. 2103 - 2110, 2020.

11. Saptarshi Chakraborty, Debolina Paul, **Swagatam Das**, and Jason Xu. Entropy regularized power k-means clustering, *AISTATS 2020 (The 23rd International Conference on Artificial Intelligence and Statistics)*, pp. 691 - 701, Palermo, Sicily, Italy, June 3 - 5, 2020.
12. Abhishek Kumar, **Swagatam Das**, and Ivan Zelinka. A modified covariance matrix adaptation evolution strategy for real-world constrained optimization problems. In *ACM Proceedings of the 2020 Genetic and Evolutionary Computation Conference Companion (GECCO '20)*. Association for Computing Machinery, New York, NY, USA, 11–12. DOI: <https://doi.org/10.1145/3377929.3398185>.
13. Abhishek Kumar, **Swagatam Das**, and Ivan Zelinka. A self-adaptive spherical search algorithm for real-world constrained optimization problems. In *ACM Proceedings of the 2020 Genetic and Evolutionary Computation Conference Companion (GECCO '20)*. Association for Computing Machinery, New York, NY, USA, 13–14. DOI:<https://doi.org/10.1145/3377929.3398186>
14. Sankha Subhra Mullick, Shounak Datta, **Swagatam Das**. Generative Adversarial Minority Oversampling, *International Conference on Computer Vision (ICCV 2019)*, Seoul, Korea, Accepted, Oct. 27 - Nov. 02, 2019. (arxiv link: <https://arxiv.org/abs/1903.09730>)
15. Debolina Paul, Saptarshi Chakraborty, **Swagatam Das**, and Ivan Zelinka. On the non-convergence of differential evolution: some generalized adversarial conditions and a remedy. In *Proceedings of the Genetic and Evolutionary Computation Conference Companion (GECCO '19)*, Manuel López-Ibáñez (Ed.). ACM, New York, NY, USA, 265-266. DOI: <https://doi.org/10.1145/3319619.3322007>.
16. Quoc Bao Diep, Ivan Zelinka, and **Swagatam Das**. Self-organizing migrating algorithm for the 100-digit challenge, In *Proceedings of the Genetic and Evolutionary Computation Conference Companion (GECCO '19)*, Manuel López-Ibáñez (Ed.). ACM, New York, NY, USA, 3-4. DOI: <https://doi.org/10.1145/3319619.3326750>.
17. Arka Ghosh, Rammohan Mallipeddi, **Swagatam Das**, Asit Kr. Das: A Switched Parameter Differential Evolution with Multi-donor Mutation and Annealing Based Local Search for Optimization of Lennard-Jones Atomic Clusters. *IEEE Congress on Evolutionary Computation (CEC)* 2018: 1-8, Brazil.
18. Arka Ghosh, Swagatam Das, Bijaya Ketan Panigrahi, Asit Kumar Das: A noise resilient Differential Evolution with improved parameter and strategy control. *IEEE Congress on Evolutionary Computation (CEC)* 2017: 2590-2597, Spain.
19. Nanda Dulal Jana, Jaya Sil, Swagatam Das: Protein Structure Optimization in 3D AB off-lattice model using Biogeography Based Optimization with Chaotic Mutation. *4-th ACM IKDD Conference on Data Sciences (CODS)* 2017: 6:1-6:7, India.
20. Avisek Gupta, Swagatam Das: On the Unification of k-Harmonic Means and Fuzzy c-Means Clustering Problems under Kernelization. 9-th *International Conference on Advances in Pattern Recognition (ICAPR)* 2017: 1-6, IEEE, Bangalore, India.