Dr. Furnendu Das

Assistant Professor

Department of Computer Science

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Academic Qualification:

M.Sc.: Assam University Silchar, India (2006)

Ph. D.: Tripura University, Agartala, India (2016)

GATE: 2007

CSIR-NET JRF: Dec, 2008

Professional Experience:

Lecturer, Department of Mathematics, Tripura University

From 25/01/2010 to 10/07/2013

Assistant Professor, Department of Computer Science, Assam University Silchar

From 11/07/2013- Till Date

Ph. D Supervission

- 1. Bishwa Ranjan Roy (2017), "Efficient Replacement Policies for the Cache Memories in Multicore Processors". (Thesis Submitted)
- 2. Satyabrata Nath (2019), "A Study on Decision Making Techniques with Applications to Computer Science". (Title Registered)
- 3. Nurulla Mansur Barbhuiya (2020)
- 4. Raghabendra Sinha (2020)

Research Interest: Real Analysis, Fuzzy Mathematics, Optimization, Machine Learning and Computer Architecture.

Research Publications:

- 1. Bhattacharya S. & **Das P.** (2013). Numerical solution of integral equation by using B-spline based fuzzy transform, Journal of Tripura Mathematical Society, Volume 15 (2013), pp 56-64.
- 2. Bhattacharya S. & **Das P.** (2014). A method for approximating solution of ordinary differential equations by using fuzzy transforms, Journal of Nonlinear Analysis and Optimization, Volume 5, No 1, pp 81-87
- 3. Bhattacharya S., **Das P.**, Das S. & Paul S. (**2016**) A method for Approximating solution of Ordinary Differential Equations by using Shepard Kernal based Fuzzy Transforms, Mathematical Sciences International Research Journal, Volume 5, (2016), issue 1, pp 54-58.
- 4. **Das P.**, Das S. & Paul S. (**2016**). A Color image coding/decoding method based on newly constructed fuzzy transforms, Engineering Sciences International Research Journal, Volume 4, Issue 1, pp 29-33
- 5. **Das P.** (2018). A Color image Coding/Decoding by using Newly Constructed Shepard Kernel Based Fuzzy Transform, Mathematical Sciences International Research Journal, Volume 7, (2018)issue 5, pp 5-16
- 6. **Das P. (2018)**. A method for Approximating solution of ODE by using B-spline based Fuzzy Transform, Mathematical Sciences International Research Journal, Volume 7, (2018), issue 5 pp 53-60,
- 7. **Das P.**, Roy B.R., Das, S. & Paul S. (2018). A New Method Of Gray Image Coding/Decoding By Using Newly Constructed Shepard Kernel Based Fuzzy Transforms, Mathematical Sciences International Research Journal vol. 7. 97-107.
- 8. **Das P.**, Roy B.R. & Paul S. (**2018**). Balanced Data Clustering Algorithm for Both Hard and Soft Clustering. International Journal of Computer Sciences and Engineering. 6. 176-183. 10.26438/ijcse/v6i2.176183.

- 9. **Das P.**, Roy B.R. & Das, S. (**2018**). A Fast Global k-means Algorithm for Datasets having Streaming Behavior. International Journal of Computer Sciences and Engineering. 6. 84-91. 10.26438/ijcse/v6i2.8491.
- 10. Das P. (2019) Role of Cache Replacement Policies in High Performance Computing Systems: A Survey. In: Verma S., Tomar R., Chaurasia B., Singh V., Abawajy J. (eds) Communication, Networks and Computing. CNC 2018. Communications in Computer and Information Science, vol 839. Springer, Singapore. https://doi.org/10.1007/978-981-13-2372-0_35
- 11. **Das P.** & Roy B.R. (2019). SplitWays: An Efficient Replacement Policy for Larger Sized Cache Memory. 10.35940/ijeat.A1634.109119.
- 12. Paul S., Purkaystha B.S. & **Das P.** (2019). NLP tools in Civil Aviation: A Survey, International Journal of Advanced Research in Computer Science, volume 9, (2018) issue No. 2, pp 109-114
- 13. **Das P.** (2020). Cache Memory Architectures for Handling Big Data Applications: A Survey. In: Elçi A., Sa P., Modi C., Olague G., Sahoo M., Bakshi S. (eds) Smart Computing Paradigms: New Progresses and Challenges. Advances in Intelligent Systems and Computing, vol 767. Springer, Singapore. https://doi.org/10.1007/978-981-13-9680-9_18
- 14. Das S., **Das P.**, Roy B.R. (**2020**) Cloud Detection and Cloud Removal of Satellite Image—A Case Study. In: Sarma H., Bhuyan B., Borah S., Dutta N. (eds) Trends in Communication, Cloud, and Big Data. Lecture Notes in Networks and Systems, vol 99. Springer, Singapore. https://doi.org/10.1007/978-981-15-1624-5_6
- 15. **Das P.**, Roy B.R. (**2020**) "Small-LRU: A Hardware Efficient Hybrid Replacement Policy" International Journal of Advanced Computer Science and Applications(IJACSA), 11(9). http://dx.doi.org/10.14569/IJACSA.2020.0110981
- 16. **Das P.**, Roy B.R. (**2021**) A Categorical Study on Cache Replacement Policies for Hierarchical Cache Memory. In: Mandal J., Mukhopadhyay S., Roy A. (eds) Applications of Internet of Things. Lecture Notes in Networks and Systems, vol 137. Springer, Singapore. https://doi.org/10.1007/978-981-15-6198-6_19
- 17. **Das P.**, Roy B.R. (**2021**) Reused-based Replacement Policy for Last Level Cache with Minimum Hardware Cost. In: Emerging Technologies for Smart Cities. Lecture Notes in Electrical Engineering. Springer, Singapore. (in press).