

Curriculum Vita

The author was born on December 13, 1980. He had graduated in Mechanical Engineering from Jadavpur University, Kolkata, India in 2003 and completed his M.E. degree in Fluid Mechanics and Hydraulic Engineering specialization from Mechanical Engineering Department of Jadavpur University with University Medal in 2006. After that he had joined Department of Mechanical Engineering, Indian Institute of Technology Kharagpur in 2007 as Institute Research Scholar. Since then he is continuing his doctoral study in the Department of Mechanical Engineering, IIT Kharagpur.

He has published 6 papers (till date) in reputed International Journals, 4 papers (till date) in reputed International Conference and 1 paper (till date) in National Conference from his Master's and Doctoral work. He has participated in several international and national workshops, seminars and presented papers in conference related to his studies.

Refereed international journal papers published out of the thesis till today:

- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., 2010. An evolutionary optimization of diffuser shapes based on CFD simulations. *International Journal for Numerical Methods in Fluids* 63, 1147-1166.
- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., 2010. Optimum design of a two step planar diffuser: A hybrid approach. *Engineering Applications of Computational Fluid Mechanics* 4, 415-424.
- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., 2010. Reply to comments on "Optimum design of a two step planar diffuser: A hybrid approach", *Engineering Applications of Computational Fluid Mechanics* 4, 624.
- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., 2010. A hybrid computing scheme for shape optimisation in thermo-fluid problems. *International Journal of Computational Intelligence Studies* 1, 207-226.
- Ghosh, S., Ghosh, I., Pratihar, D.K., Maiti, B., Das, P.K., 2011. Optimum stacking pattern for multi-stream plate-fin heat exchanger through a genetic algorithm. *International Journal of Thermal Sciences* 50, 214-224.
- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., 2011. Inverse estimation of location of internal heat Source in conduction. *Inverse Problems in Science & Engineering* 19, 337-361.

International journal paper communicated out of the thesis:

- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., Flow Regimes Predictions Using Conductivity Probe Signals and Neural Network for Counter-Current Gas-Liquid Two-Phase Flow. (Chemical Engineering Science).

International journal papers under preparation out of the thesis:

- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., Automatic classification of vertical counter-current gas-liquid two-phase flow by capturing the hydrodynamic characteristics through objective descriptions. (To be submitted to AIChE Journal)

Refereed international conference papers published out of the thesis till today:

- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., Application of Genetic Algorithm for shape optimization of a 2d planar diffuser. 4th BSME-ASME International Conference on Thermal Engineering, December 27-29, 2008, Dhaka, Bangladesh.
- Ghosh, S., Pratihar, D.K., Maiti, B., Das, P.K., Flow regimes and their transition in counter current gas liquid flow through a vertical pipe. 7th International Conference on Multiphase Flow, May 30-June 4, 2010, Tampa, U.S.A.