

Chinmaya Prasad Padhy

Subject Matter Expert (Associate Consultant)

American Bureau of Shipping-ODC,

Engineering Design Services,

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Area of research interest:

- Wave Structure Interaction Problems
- Marine Hydrodynamics
- Algorithm Development

Qualifications:

- B.Tech (Mechanical Engineering) in 1999 from NIT, Jamshedpur.
- M.Tech (Mechanical Engineering) in 2004 from NIFFT, Ranchi.

Experiences:

- Having a strong domain and adequate exposure on current developments in Marine & Offshore Structure along with different scientific applications clubbed with analysis through hydrodynamics, wave-structure interaction, and basic scantling calculation of ship structure design (mainly inline with the *ABS SVR Rules*).
- Knowledge of assessment of offshore structures, structural and fatigue analysis etc.
- Familiar with the basic ship design methodology and rules involved in ship structural assessment s/w like SafeHull, LNG, FPSO etc.
- More than 6 years of experience in IT & IT related field, comprises of various CAD, FEM analysis software development.
 - Wipro Technologies, Kolkata (Associate Consultant)
 - CADopia India Pvt. Ltd., Kolkata (Software Engineer)
 - SRIC, IIT-Kharagpur (Senior Research Fellow)
 - Ritwik Software Pvt. Ltd., Hyderabad (Software Engineer)

Softwares:

- Hands on exp. in various useful software languages like C/C++, VB, VC++ and FORTRAN etc.

- Auto-Cad, DEFORM (Design Environment for Forming), MatLab, ArcGis3.2, Origin etc.

List of Publications:

Conference Papers:

- 1.) Padhy, C. and Sengupta, S, 'A Mathematical Model for Optimization of Ship Routing', *Proc., Int. Conf. in Marine Hydrodynamics*, Vizag, Jan. 2006, pp 211-224.
- 2.) Padhy, C. and Sen, D., 'Design and Development of an Optimization Tool for Ship Weather Routing', *Proc. National Conference on soft computing Techniques for Engineering Applications*, NIT Rourkela, March 2006, pp. 347-360.
- 3.) Padhy, C and Sen, D. 'Computational Technique for Optimum Ship Routing', *Proc. Int. Congress on Comp. Mech. and Simulation*, IIT Guwahati to Dec. 2006, pp.1701-07.
- 4.) Padhy C. and Sen, D., 'Optimum ship weather routing: an advanced decision support system', *Proc. 51st ISTAM*, Visakhapatnam, Dec.2006.
- 5.) Padhy, C., Sen D and Bhaskaran, P.K. 'Wave Modeling for the North Indian Ocean and its Application for Weather Routing of Ships', *Int. Conf. on Mesoscale Processes in Atmosphere, Ocean & Env. Systems*, Feb.2006, IIT Delhi.
- 6.) Padhy C, Sen, D, Sharma R. K. and Sarkar, Abhijit, 'Application of satellite generated wave data for ship weather routing in north Indian Ocean region', *INCHOE*, Dec. 2007, NIT Surathkal.
- 7.) Padhy, C.P. and Sen, D. 'Application of wave modeling for the ship weather routing problem', Multi Hazard Support, Session VII, *Advances in Weather and Climate Services*, May 19-21, 2010. Kolkata.
- 8.) Sen, D and Padhy C. 'Development of a Ship Weather-Routing Algorithm for Specific Application in North Indian Ocean', *MARTEC*, Dec.10-11, 2010, Dhaka, Bangladesh.

Journal Papers:

- Padhy, C.P., Sen, D., Bhaskaran, P.K. 2008. 'Application of wave model for weather routing of ships in the North Indian Ocean', *Natural Hazards*'. Vol. 44(3), pp. 373-385.
- Padhy, C.P. and Sen, D.2009. 'Development of a ship weather routing algorithm and its application for Indian coastal sea routes', *International Journal of Ecology and Development*. Vol. 12, W09, pp.59.

- Padhy, C.P., Sen, D. 2010. ‘Development of a ship weather-routing algorithm and its application to the north Indian Ocean Region’, Journal of Engineering for the Maritime Environment, RINA, UK, *communicated*

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