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Department of Naval Architecture and Marine Engineering
Faculty of Transportation Engineering
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EDUCATION

Associate Professor in Mechanic, 2010

Nha Trang University, Nha Trang, Viet Nam
Ph.D. in Naval Architecture, 1996-2001

AWARDS :

- The second prize in Vietnam national science and technology invention (2007).

RESEARCH INTERESTS

- Ship Theory
- Strength of Ship
- Optimization and Automation of Ship Design and Construction
- Computational Fluid Dynamics (CFD) in Naval Architecture.

RESEARCH EXPERIENCE

- Designing off-shore composite fishing boats (a branch of National Project: Manufacture the offshore composite fishing boats), principle designer, 2002.
- Designing oil salvage ship (a branch of National Project: The technological plan for treatment of oil overflow), principle designer, 2005.
- Automation of design ship lines of Vietnamese fishing boats, Ministerial Project (2006), principle investigator,
- Research on manufacturing propeller by general – purpose mould in CNC milling machine, Ministerial Project (2008), principle investigator.
- Optimal design Vietnamese fishing fleet, Provincial Project, principle investigator (2010)
- Research on using CFD in naval architecture, University Project, principle investigator (2012)
- Design cruise vessels with the local traditional culture, Provincial Project, principle investigator (2013)

TEACHING RESPONSIBILITY

Undergraduate

- Ship Theory

- Strength of ship
- Ship Design and Construction

Graduate

- Computing the strength of ship construction by Finite Element Method
- Optimization and Automation of Ship Design and Construction
- Computational Fluid Dynamics (CFD) in Naval Architecture and Marine Engineering
- Ensuring the safety of nautical features of fishing vessel.

PUBLICATIONS and PRESENTATIONS

Books:

1. **Tran Gia Thai.** 2010. Ship Theory. Scientific and Technical Publishing House
2. **Tran Gia Thai.** 2010. Ship Structure. Scientific and Technical Publishing House
3. **Tran Gia Thai.** 2010. Computing and Designing of Ship Structure. Scientific and Technical Publishing House
4. **Tran Gia Thai.** 2010. Ship Design. Scientific and Technical Publishing House
5. **Tran Gia Thai.** 2011. Computing the Strength of Ship Construction by Finite Element Method. Scientific and Technical Publishing House
6. **Tran Gia Thai.** 2011. Optimization and Automation of Ship Design. Scientific and Technical Publishing House

Journals

1. **Tran Gia Thai.** 2007. Research on the approach of determining the optimal line heating in plate forming, The Transport Journal, Ministry of Transport, Vol. 8/2010
2. **Tran Gia Thai.** 2007. Research on designing and manufacturing the model of Hovercraft, The Transport Journal, Ministry of Transport, Vol. 7/2010
3. **Tran Gia Thai.** 2007. Researching on the reliability of power plant of Vietnamese fishing boat by the fault tree analysis method, The Transport Journal, Ministry of Transport, Vol. 10/2007
4. **Tran Gia Thai.** 2007. Studying of the copying propeller by CNC milling-machine, The Transport Journal, Ministry of Transport, Vol. 11/2007.
5. **Tran Gia Thai.** 2007. Studying of the structural analysis of propeller blades by FEM (Finite Element Method), The Transport Journal, Ministry of Transport, Vol. 10/2007
6. **Tran Gia Thai.** 2007. Studying of finding the formula to calculate approximately resistance of Vietnamese fishing boats according to experimental data of FAO, The Transport Journal, Ministry of Transport, Vol. 10/2007.
7. **Tran Gia Thai.** 2007. The automatically drawing and building model of propeller from designing parameters in CAD/CAM programs, The 10th Conference on Science and Technology, Ho Chi Minh City University of Technology, Vietnam National University, 10/2007.
8. **Tran Gia Thai.** 2007. Studying of mathematical method to determine optimum of geometrical characteristic of Vietnamese fishing boats, The Transport Journal, Ministry of Transport, Vol. 8/2007

9. **Tran Gia Thai.** 2007. Studying of digitalizing practical charts to apply in ship design problem, Collection the scientific – technology Conference the Youth in universities belong to the Nationwide United block of Industry – Agriculture – Forestry, 03/2007.
10. **Tran Gia Thai.** 2007. The impact of using factors in result of combination using between Engine, Hull and Propeller of fishing boats, Journal of Fisheries Science and Technology, Nha Trang University, Vol. 01/07.
11. **Tran Gia Thai.** 2007. The automatic designing and manufacturing fishing boats' propeller by CNC milling-machine, Vietnamese Mechanical Review, Vol. 118+119/1 + 2 – 2007.
12. **Tran Gia Thai.** 2006. The algorithm for drawing ships' lines and calculation features of fishing boats rely on 3D model, Journal of Science - Technology of Military Academy, 11/2006.
13. **Tran Gia Thai.** 2006. Researching, designing and building the small composite high speed crafts, Transport Journal, Ministry of Transport, Vol. 10/2006.
14. **Tran Gia Thai.** 2006. Studying of determining the Property Diagram of propeller in practical exploitation conditions, Journal of Fisheries Science and Technology, Nha Trang University, Vol. 03-04/06.
15. **Tran Gia Thai.** 2006. Studying of the approach of determining Ship using Diagram in practical exploitation conditions, Journal of Fisheries Science and Technology, Nha Trang University, Vol. 03-04/06.

Presentations

1. **Thai Tran Gia.** 2013. Approach, Algorithm and Program for optimal Design of Vietnamese Fishing boats, 27th Asian-Pacific Technical Exchange and Advisory Meeting on Marine Structures 2013 – Keelung, Taiwan.
2. **Thai Tran Gia.** 2013. Determination the location of optimal line heating in heating process for hull plates, 27th Asian-Pacific Technical Exchange and Advisory Meeting on Marine Structures 2013 – Keelung, Taiwan.
3. **Thai Tran Gia.** 2010. Designing Lines of Vietnamese Fishing Boat to minimize power, The 2010 International Conferences on Advanced Ship Design, Brussels, Belgium.
4. **Thai Tran Gia.** 2010. Designing Lines of Vietnamese Fishing Boat to minimize power, The 2010 International Conferences on Advanced Ship Design, Brussels, Belgium.
5. **Tran Gia Thai.** 2012. Studying of simulation the Vietnamese fishing boat in AutoShip Software, The National Conference on Transportation Engineering, 2012
6. **Tran Gia Thai.** 2007. Studying of determining ship resistance force from ship velocity and revolutions of engine, The 10th Conference on Science and Technology, Ho Chi Minh City University of Technology, Vietnam National University, 10/2007.
7. **Tran Gia Thai.** 2006. The approach, algorithm and program for optimal design ship lines of Vietnamese fishing boats, Collection the nationwide scientific conference about mechanical technology and automation, 10/2006