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EDUCATION

1998 - 2003 **PhD** (Applied Sciences) - University of Liège, Liège City, BELGIUM
1995 - 1997 **MSc** (Applied Sciences) - University of Liège, Liège City, BELGIUM
1988 - 1993 **BSc** (Mechanical Engineering) - Ho Chi Minh City University of Technology

MANAGEMENT POSITION (HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY)

2013 – present: Vice dean, Faculty of Transportation Engineering
2005 – 2013: Head of department, Department of Naval Architecture & Marine Engineering
2004 – 2006: Vice director, Centre EMMC (European Master in Engineering Science of Mechanics of Constructions), Inter-University Cooperation Program sponsored by Belgian Government

RESEARCH INTEREST

- The unbalance in rotating equipment is usually the primary cause of vibration and noise. The research refers to the design and construction of an experimental dynamic balancing system in order to reduce such vibration to an acceptable level. It includes a dynamic balancing analysis unit in form of an analysis and real-time control software. The measurement system is equipped with sensors, amplifiers, control and data acquisition card well integrated for high accuracy and reliability.
- The ship vibration was a major issue that directly influenced the entire ship during the operation. The study mentions the ship vibration test including measurements, vibration analysis...to make predictions and reducing vibration of ship.
- The hovercraft is a marine vehicle that moves not only on water but also on land by means of an air cushion under the craft. The research deals with design requirements, preliminary design, technical design of small & medium size hovercrafts using light-structure composite. Some first hovercrafts were under inclination test as well as under test on land and on water to verify their performance.
- Airport noise monitoring for domestic airports: standards, procedures of measurement, permanent noise monitoring systems, noise map. Operations and aircraft flights surrounding and inside the airport generate noise and bad impact on the local residents. Airport noise monitoring and noise abatement programs are established to address the specific concerns for the airport and surrounding environs.
- Structural dynamics, vibration measurement and analysis, stress analysis by experiment, mechanics of composite materials, light-weight structures design

AFFILIATION / SERVICES

- Section Editor - Science and Technology Development Journal - Engineering & Technology (STDJ), Vietnam National University – Ho Chi Minh City (VNU-HCM) (since 2018)
- Vice director - Centre d'Excellence Belgo-Vietnamien des Sciences Appliquées de l'Ulg et UPH (2004 -2006), Inter-University Cooperation Program sponsored by Belgian Government and realized by University of Liège
- Head of Group of Design and Prototyping advanced vehicles at HCMUT (since 2018)
- Chairman - Int'l Conference on "Advanced COmputational Methods in Vehicle ENgineering" (ACOMVEN-2019)
- Project team leader – Tan Son Nhat airport noise monitoring & noise abatement programs (2019)

ACADEMIC AWARDS

1. 2013 Nguyen Van Dao Mechanical Talent Award from Vietnam Mechanical Association for the excellent achievements in the training and scientific research in mechanical field
2. 2013 Most favorite product voted by the audience with *the 3-seat hovercraft in The New Inventors*, by VTV2 Channel (Vietnam)

PATENT

Patent Applied : (VN)1-2014-03890 : Dynamic balancing system for rotating equipment

R&D PROJECTS

1. **Project Leader** – VNU-HCM (National), Design and prototyping 12-seat hovercraft (2017-2019, design phase)
2. **Project Leader** – VNU-HCM (National), Design and prototyping small-sized hovercraft (2010-2012)
3. **Project Leader** – VNU-HCM (National), Dynamic balancing of monorotor during operation (2004-2005)
4. **Project Leader** – Key project, HCMUT (National), Design and fabrication of experimental dynamic balancing system for ship propellers (2014)

RESEARCH CONSULTATION

1. **Project Leader** – VAN THE WATER PUMPS Company, Dynamic balancing of water pump impellers HnB75B (2014-2016)
2. **Project Leader** – PV-GAS, PPS-PTSC, PVMTTC, Dung Quat Oil Refinery (Petro Vietnam), KVIP-Can Tho City, APAVE (France), PVCFC, Petrovietnam Fertilizer & Chemicals Corporation, PETECO, VSP Mechanical & Energy Division (Russia-Vietnam)..., Intensive training courses on Vibration analysis of rotating equipment and Dynamic balancing of rotors, and Commissioning test, Technical consulting & supports (2006-2018)
3. **Project Leader** – Thanh Loi Mechanical - Ca Mau, XuanTurbo-QuyNhon, ThanhDanh-PhuYen, Turbochargers dynamic balancing machines HnB03B (2006, 2014, 2016)
4. **Project Leader** – Shipmarine Shipyard, SSIC Shipyard, VARD, Ship vibration measurement and vibration analysis, Geometry dimensions...(2013, 2015, 2020, 2021, 2022)
5. **Project Leader** – Universities: DUT, HCMUT, STU, UAH, HCMUTE..., Modular experiments for teaching mechanics

SELECTED PUBLICATIONS

1. **Le Dinh Tuan** et al (2016) Structural analysis of hovercraft hull by FEM, Proceedings of the National Conference on Mechanics – Materials & Composite structures, pp.750-758
2. **Le Dinh Tuan** (2016), On the rotor dynamic balancing scheme conforming to the permissible residual unbalance standard ISO 1940/1, Proceedings of the Nat'l Conference on Sci & Tec, Vol 3, pp. 323-329
3. P Phung-Van, T Nguyen-Thoi, **T Le-Dinh** and H Nguyen-Xuan (2013), Static and free vibration analyses and dynamic control of composite plates integrated with piezoelectric sensors and actuators by the cell-based smoothed discrete shear gap method (CS-FEM-DSG3), Smart Materials & Structures, ISSN 1361-665X
4. **Le Dinh Tuan**, Ngo Thanh Phong, Nguyen Tran Chan (2009), Governing equations of electro-mechanical systems of the piezoelectricity, Proceedings of the National Conference on Mechanics (2009), Vol. 1, pp.272-280
5. **Le Dinh T.**, Nguyen T. L., Hoang H. C. (2005), Active balancing of monorotor during operation, Proceedings of the 5th Asian Symposium on Applied Electromagnetics & Mechanics (ASAEM 2005), pp. 401-412

BOOK CHAPTER

1. **Le Dinh Tuan** (2014, 2016) Structural Mechanics, Vietnam National University – HCMC Publisher, ISBN 978-604-73-3984-6
2. **Le Dinh Tuan** (2014) Mechanics of composite materials, Vietnam National University – HCMC Publisher, ISBN 978-604-73-2389-0
3. **Le Dinh Tuan**, Tran C. Nghi (2007) Structural Mechanics – Exercises, Vietnam National University – HCMC Publisher, ISBN 978-604-73-0112-6