

Nguyen Van TUONG
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Department of Manufacturing Engineering
Faculty of Mechanical Engineering
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EDUCATION

Technical University of Liberec, Liberec, Czech Republic
Ph.D. in Manufacturing Engineering, 2006-2009

Nha Trang University, Nha Trang, Vietnam
M.Eng. in Mechanical Engineering, 1998 - 2001
B.Eng. in Manufacturing Engineering, 1996-1998
B.Eng. in Marine Engineering, 1991-1996

RESEARCH INTERESTS

- CAD/CAM/CNC
- Modelling and machining free-form surfaces.
- Reverse engineering

RESEARCH EXPERIENCE

- Influence of molding parameters on the mechanical and tribology properties of journal bearing which made from polyethylene, calcium carbonate and graphite, University project, TR-2000-33-23, principal investigator.
- Optimization of machine properties in interaction with working processes and human aspects, MSM 4674788501, Project of Czech Ministry of Education, 2005-2011, participant.
- Development of new technologies manufacturing moulds for PUR foams, MPO FI IM5/065, Project of Czech Ministry of Industry, 2008-2010, participant.
- Modelling the Bridgeport VMC 2216 XV and building its postprocessor for virtual machining, which can be used for training and research, University project, TR2010-13-10, 2010-2011, principal investigator.
- Building some tutorials on virtual CNC machining, which can be used for training, University project, TR2011-13-06, 2011-2012, principal investigator.
- Design and manufacture a laser scanner for reverse engineering, used for training, University project, TR2012-13-27, 2012-2013, principal investigator.
- Manufacturing free-form surfaces, Doctoral dissertation, Technical University of Liberec, Czech Republic, 2006-2009.

TEACHING RESPONSIBILITY

Undergraduate

- Tolerances and Fits
- Fundamentals of Manufacturing Engineering
- Machining Processes
- Jigs and Fixtures Design

Graduate

- Advanced Manufacturing Technology

PUBLICATIONS and PRESENTATIONS

Books:

1. Dang Van Nghin, Pham Ngoc Tuan, Thai Thi Thu Ha, Le Trung Thuc, Nguyen Van Giap, **Nguyen Van Tuong**. 2001. Machining Processes. Publisher of Vietnam National University of Ho Chi Minh City.
2. Pham Ngoc Tuan, **Nguyen Van Tuong**. 2007. Nontraditional Machining Processes. Publisher of Vietnam National University of Ho Chi Minh City.
3. **Nguyen Van Tuong**, Premysl Pokorny. 2009. A Case Study of Modeling Concave Globoidal Cam. In: Advanced Technologies. Edited by Kankesu Jayanthakumaran. In-Tech, Austria.
4. **Nguyen Van Tuong**. 2012. Machine Tool. Civil Engineering Publishing House, Ha Noi.
5. **Nguyen Van Tuong**. 2013. Virtual Operation of Mills and Lathes CNC. Science and Engineering Publishing House, Ha Noi.

Journals

1. **Nguyen Van Tuong**, Premysl Pokorny. 2009. Modeling concave globoidal cam with Indexing turret follower: A case study. International Journal of Computer Integrated Manufacturing, 22 (10): 941-947.
2. **Nguyen Van Tuong**, Premysl Pokorny. 2009. Virtual animation for checking interference of globoidal cam. Modern Machinery Science Journal, 3.
3. **Nguyen Van Tuong**, Premysl Pokorny. 2010. A practical approach for partitioning free-form surfaces. International Journal of Computer Intergrated Manufacturing, 23(11): 902 – 1001.
4. **Nguyen Van Tuong**. 2012. Development virtual machine for Bridgeport VMC 2216 XV. Journal of Fisheries Science and Technology, Nha Trang University, 2: 94-97.
5. **Nguyen Van Tuong**. 2012. Developing some tutorials on the virtual operation of CNC lathes and mills.

Presentations

1. **Nguyen Van Tuong**. Modelling of globoidal cam, VinaManufacturing 2008.

2. **Nguyen Van Tuong**. Modelling and animation of indexing globoidal, VinaManufacturing 2008.
3. **Nguyen Van Tuong**. Surface partitioning and surface patch boundaries definition. 3rd National Conference on Mechanical Science And Technology, Ha Noi, 2013.
4. **Nguyen Van Tuong**. Manufacture low cost 3D laser scanner. 3rd National Conference on Mechanical Science And Technology, Ha Noi 2013.
5. Pham Ngoc Tuan, Cao Le Bach, **Nguyen Van Tuong**, Tran Nguyen Thanh Binh. The 3D data identifying and processing software for shoe parts. 3rd National Conference on Mechanical Science And Technology, Ha Noi, 2013.
6. Pham Ngoc Tuan, **Nguyen Van Tuong**, Cao Le Bach, Le Dinh Can, Tran Nguyen Thanh Binh. The 3D data identifying and processing machine for shoe parts. 3rd National Conference on Mechanical Science And Technology, Ha Noi, 2013.
7. Pham Ngoc Tuan, **Nguyen Van Tuong**, Ha Quang Dung, Tran Van Linh. Automatic abrasion device for shoes. 3rd National Conference on Mechanical Science And Technology, Ha Noi, 2013.
8. Pham Ngoc Tuan, **Nguyen Van Tuong**, Ha Quang Dung, Tran Quang Chieu. Automatic glue device for shoes. 3rd National Conference on Mechanical Science And Technology, Ha Noi, 2013.
9. Pham Ngoc Tuan, **Nguyen Van Tuong**, Cao Van Dang, Nguyen Tinh. The mobile based vending machine. 3rd National Conference on Mechanical Science And Technology, Ha Noi, 2013.