

Dang Xuan Phuong
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Faculty of Mechanical Engineering
Nha Trang University,
02 Nguyen Dinh Chieu St.,
Nha Trang city, Vietnam

EDUCATION

University of Ulsan, Korea

PhD degree, Mechanical Engineering (Production Engineering) 2008-2011

Nha Trang University, Nha Trang, Vietnam

Master of Engineering, Ship technology (2001-2003)

Engineer of Ship Motive Power Mechanical Engineering (1993-1998)

RESEARCH INTERESTS

2011 to now: CAE technology and application, Design optimization, Process parameter optimization, Energy savings in production engineering.

2008-2011: CAE technology and application, Design optimization, Injection molding

2003-2008: Design aquatic mechanical equipment for fisheries industry, CAD/CAM/CNC

TEACHING RESPONSIBILITY

Undergraduate

1. Manufacturing Technology
2. CAD/CAM/CAE
3. CNC machine tools and industrial robot

Graduate

1. Advanced CAD/CAM/CNC
2. Computer Aided Engineering
3. Advanced synthetic and analysis of mechanism and machinery

PUBLICATIONS AND PRESENTATIONS

Books (in Vietnamese)

1. Publisher of Science and Technology, HCM City, 2017

Book (in English)

1. New Technologies - Trend, Innovations and Research, Book chapter 2: Design and Simulation-Based Optimization of Cooling Channels for Plastic Injection Mold, Open Intech, 2012

Journals and Presentations

1. Xuan-Phuong Dang, Constrained Multi-Objective Optimization of EDM Process Parameters Using Kriging Model and Particle Swarm Algorithm, Materials and Manufacturing Process, Accepted author version posted online: 10 Feb 2017
2. Hong-Seok Park and Xuan Phuong Dang, Development of technology for improving productivity and quality of injection molding, 28th DAAAM International Symposium on Intelligent Manufacturing and Automation, 2017
3. Hong-Seok Park and Xuan Phuong Dang, Development of a smart plastic injection mold with conformal cooling channels , Proceedings of 45th SME North American Manufacturing Research Conference 2017.
4. Hong-Seok Park, Trung-Thanh Nguyen, Xuan-Phuong Dang, Multi-Objective Optimization of Turning Process of Hardened Material for Energy Efficiency, International Journal of Precision Engineering and Manufacturing, Vol. 17, No. 12, pp. 1623-1631, December 2016
5. Hong-Seok Park, Trung-Thanh Nguyen, Xuan-Phuong Dang, Energy-Efficient Optimization of Forging Process Considering the Manufacturing History, International Journal of Precision Engineering And Manufacturing-Green Technology, Vol. 3, No. 2, pp. 147-154 APRIL 2016
6. Hong-Seok Park, Xuan-Phuong Dang, Multi-objective Optimization of the Heating Process for Forging Automotive Crankshaft, Journal of Manufacturing Science and Engineering, Vol. 137, 2015
7. Hong-Seok Park, In-Soo Park, Xuan-Phuong Dang, Development of an Electro-mechanical Driven Broaching Machine Journal of the Korean Society of Manufacturing Technology Engineers 24:1 (2015) 007~014
8. Xuan-Phuong Dang, General frameworks for optimization of plastic injection molding process parameters, Simulation Modelling Practice and Theory, 41 (2014) 15–27

9. Hong-Seok Park, Xuan-Phuong Dang, Gyu-Bong Lee, Reduction of heat losses for the in-line induction heating system by optimization of thermal insulation, *International Journal Of Precision Engineering And Manufacturing* (paper accepted, will be published in May/2013)
10. Park Hong Seok, Berend Denkena, Dang Xuan Phuong, Jan Henjes and Ingo Lüken, A Study on the Heat Losses Reduction for the In-line Induction Heating System, ISGMA2012 (International symposium on Green manufacturing and Applications), August, 27~29, 2012/ Jeju- Korea
11. H.S. Park, X.P. Dang, A. Roderburg, B. Nau, Development of plastic front side panels for green cars, *CIRP Journal of Manufacturing Science and Technology*, Vol.6, Issue 1, pp.44-52 (2012)
12. Hong-Seok Park and Xuan-Phuong Dang, Optimization of the In-line Induction Heating Process for Hot Forging in Terms of Saving Operating Energy, *International Journal Of Precision Engineering And Manufacturing* Vol. 13, No. 7, pp. 1085-1093
13. Hong-Seok Park and Xuan-Phuong Dang, Design and simulation-based optimization of cooling channels for injection mold, Book chapter, *New Technologies-Trend, Innovations and Research/OpenInTech 2012*
14. Xuan-Phuong Dang and Hong-Seok Park, Design of U-shape milled groove conformal cooling channels for plastic injection mold, *International Journal of Precision Engineering and Manufacturing*, Vol. 12, No. 1, February, 2011, pp. 73-84
15. Hong-Seok Park and Xuan-Phuong Dang, Development of a fiber-reinforced plastic armrest frame for weight-reduced automobiles, *International Journal of Automotive Technology*, Vol. 12, No. 1, February, 2011, pp. 83-92.
16. Hong-Seok Park, Tran Viet Anh and Xuan-Phuong Dang, An application of ANN-GA hybrid approach on modeling and optimizing roll forming of aluminum car doorbelt, *International Journal of Modern Manufacturing Technologies*, Vol. III, No. 1/ 2011, pp: 57-66
17. Hong-Seok Park and Xuan-Phuong Dang, Development of short fiber-reinforced plastic front side panels for weight-reduced automobiles, *CIRP 44th Conference on Manufacturing Systems*, Madison Wisconsin, USA
18. Hong-Seok Park and Xuan-Phuong Dang and Guy-Bong Lee, A study on the inline induction heating for forging in terms of saving operating energy, *International symposium on green manufacturing and application (ISGMA2011)*, Seoul National University, Korea
19. Hong-Seok Park and Xuan-Phuong Dang, Structural optimization based on CAD-CAE integration and metamodeling techniques, *Computer-Aided Design*, Volume 42, Issue 10, October 2010, Pages 889-902

20. Hong-Seok Park and Xuan-Phuong Dang, Optimization of conformal cooling channels with array of baffles for plastic injection mold, International Journal of Precision Engineering and Manufacturing, Vol. 11, No.6, December, 2010, pp. 1-12.
21. Hong-Seok Park and Xuan-Phuong Dang, Development of a retention mechanism for minimizing defective overlap in film insert molding, International Forum on Strategic Technology (IFOST)
22. Hong-Seok Park and Xuan-Phuong Dang, Development of a green manufacturing process for making a chrome -like radiator grill, 21st DAAM International World symposium, Volume 21, No.1, pp: 0037-0038, 2010
23. Hong-Seok Park and Xuan-Phuong Dang, Development of plastic fender for weight -reduced automobiles, KSAE 2010 Annual Conference, Hong-Seok Park and Xuan-Phuong Dang, Structural optimization of mechanical components using radial basis function and CAD, KSAE 2009 Annual Conference.
24. Hong-Seok Park and Xuan-Phuong Dang, Gyu Bong Lee, Design optimization of a plastic armrest frame, Proceeding of International Conference on Sustainability and Remanufacturing VI, September 29 – October 1, Busan, Korea, pp: 120-125

PROFESSIONAL MEMBERSHIPS

Member of Khanh Hoa Province Mechanical Engineer