

CURRICULUM VITAE

Nantiwat Pholdee

PERSONAL INFORMATION

Date of birth: June 5, 1986
Place of birth: Sisaket, Thailand
Home address: 2/116 Moo 12 Tambol Naimueang, Amphur Mueang, Khon Kaen, 40000, Thailand.
Work address: Department of Mechanical Engineering, Faculty of Engineering, Khon Kaen University, Khon Kaen 40002, Thailand
Phone: +66-43-202845
Fax: +66-43-202849
Email address: nantiwat@kku.ac.th, nantiwat.ph@gmail.com

WORK EXPERIENCE

Aug '11 - Present: Lecturer
Department of Mechanical Engineering
Khon Kaen University, Khon Kaen, Thailand

May '14 – July '14: Visiting Researcher
National Research Laboratory for Computer Aided Materials Processing, Department of Mechanical Engineering, KAIST 373-1 Guseong-dong, Yuseong-gu, Daejeon, Korea

Dec '12 – May '13: Visiting Researcher
National Research Laboratory for Computer Aided Materials Processing, Department of Mechanical Engineering, KAIST 373-1 Guseong-dong, Yuseong-gu, Daejeon, Korea
(The Royal Golden Jubilee Ph.D. Program Scholarship)

Nov '08 – Apr '09: Mechanical Failure Analysis Engineer
Seagate Technology (Thailand) Ltd.
Tambol Sungnoen, Amphur Sungnoen, Nakorn-Ratchasima, Thailand

EDUCATION

2009-2013: Ph.D. in Mechanical Engineering
Khon Kaen University, Khon Kaen, Thailand
(The Royal Golden Jubilee Ph.D. Program Scholarship)

2005-2008: B.Eng. (Second Class Honors) in Mechanical Engineering
Khon Kaen University, Khon Kaen, Thailand

HONORS AND AWARDS

2014: Outstanding dissertation, Khon Kaen University

RESEARCH INTERESTS

- Structural and Multidisciplinary Optimisation
- Surrogate-Assisted Optimisation
- Single-objective and Multiobjective Evolutionary Algorithms
- Finite Element Analysis

ABSTRACTS/PRESENTATIONS

- Pholdee, N., & Bureerat, S.** Bridge Carrier Finite Element Analysis and Design. *Technology and Innovation for Sustainable Development International Conference*, 4-6 March, 2010, Faculty of Engineering, Khon Kaen University, Thailand
- Pholdee, N., Park, W.W., Kim, D.K., Im, Y.T., Bureerat, S., Kwon, H.C., & Chun, M.S.** Optimization of a Strip Coiling Process based on Evolutionary Algorithms, *Proceedings of the AMPT Conference 2013*, Taiwan.
- Pholdee, N., Bureerat, S., Park, W.W., Kim, D.K., Im, Y.T., Kwon, H.C., & Chun, M.S.** Optimization of Flatness of a Strip during Coiling Process based on Evolutionary Algorithms, *Proceedings of the 9th ISGMA conference 2014*, 24-28 June, 2014, Busan, Korea.
- Pholdee, N., Bureerat, S., Baek, H.M., Im, Y.T.** Surrogate Assisted Teaching Learning Based Optimisation for Process Design of a Non-circular Drawing Sequence, *Proceedings of the 4th ICMEQP conference 2015*, 14-15 March, 2015, London, UK.

ORIGINAL ARTICLES

Local Publications

- Pholdee, N., & Bureerat, S.** (2010). Material identification of a bridge-carrier using finite element analysis. *KKU Engineering Journal*, 37(2), 93-99 (in Thai)

International Publications

- Pholdee, N., & Bureerat, S.** (2010). Passive vibration control of an automotive component using evolutionary optimisation. *Journal of Research and Applications in Mechanical Engineering*, 1, 19-22.
- Pholdee, N., & Bureerat, S.** (2012). Performance enhancement of multiobjective evolutionary optimisers for truss design using an approximate gradient. *Computers and Structures*, 106-107, 115-124.

- Pholdee, N., & Bureerat, S.** (2012). Surrogate-Assisted Evolutionary Optimizers for Multiobjective Design of a Torque Arm Structure. *Applied Mechanics and Materials*, 101-102, 324-328.
- Pholdee, N., & Bureerat, S.** (2013). Hybrid real-code population-based incremental learning and approximate gradients for multiobjective truss design. *Engineering Optimization*, 46(8), 1032-1051.
- Pholdee, N., & Bureerat, S.** (2013). Hybridisation of real-code population-based incremental learning and differential evolution for multiobjective design of trusses. *Information Sciences*, 223, 136-152.
- Pholdee, N., & Bureerat, S.** (2014). Comparative performance of meta-heuristic algorithms for mass minimisation of trusses with dynamic constraints. *Advances in Engineering Software*, 75, 1-13
- Pholdee, N., & Bureerat, S.** (2015). An efficient optimum Latin hypercube sampling technique based on sequencing optimisation using simulated annealing. *International Journal of Systems Science*, in press.
- Pholdee, N., & Bureerat, S.** (2015). Hybrid real-code ant colony optimisation for constrained mechanical design. *International Journal of Systems Science*, in press.
- Pholdee, N., Park, W.-W., Kim, D.-K., Im, Y.-T., Bureerat, S., Kwon, H.-C., and Chun, M.-S.** (2015). Efficient hybrid evolutionary algorithm for optimization of a strip coiling process. *Engineering Optimization*, 47, 521-532.
- Bureerat, S., & Pholdee, N.** (2015). Optimal Truss Sizing Using an Adaptive Differential Evolution Algorithm. *Journal of Computing in Civil Engineering*, in press,