

CURRICULUM VITAE

of

Associate Professor Dr. Utomporn Phalavonk

Personal Information:

Gender: Female
Nationality: Thai
Place of Birth: Bangkok, Thailand
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Education:

1987-1991 PhD (Computer Education),
The University of New South Wales, Australia
1970-1971 M.Sc.(Math), Chulalongkorn University, Thailand
1965-1968 B.Sc.(Hons), Chulalongkorn University, Thailand

Affiliation: Foundation for the Promotion of Mathematical Talent (Thailand)
Department of Mathematics, Faculty of Applied Science,
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Training :

Lesson Plan (3 months) University of Surray, UK
Thai University Lecturer Scheme (6 months) Monash University, AUSTRALIA
Planning and Management (1 month) TASEAP, AUSTRALIA

Experiences:

2010 – present Secretary-General of the Mathematical Association of Thailand
2009 – present Chair, Foundation for the Promotion of Mathematical Talent (Thailand)
2008 – present Vice President, The Science Society of Thailand
2008 – 2012 President, Thai-Australian Technological Services Center
2007 – 2008 Member, KMUTNB Council
2003 – 2005 Chair, Co-operative Research Network in Mathematics,
Commission on Higher Education, Ministry of University Affairs
2003 – 2008 Advisor for International Post Graduate Programme in
Information Technology, Faculty of Information Technology,
King Mongkut's University of Technology North Bangkok
(KMUTNB)
1995 – 2002 Dean, Faculty of Applied Science, King Mongkut's Institute
of Technology North Bangkok (KMITNB)
1992 – 1994 Vice President for Planning, KMITNB
1983 – 1986 Associate Dean for Planning and Development,
Faculty of Technical Education and Science, KMITNB
1979 – 1983 Head, Department of Mathematics,
Faculty of Technical Education and Science, KMITNB

Research Interest: Computer-Assisted Instruction in Mathematics,
Mathematics on Web

Selected Publications:

- Sahaphon Lertviriyapaisand, Kanokporn Thongmak, Kantaphong Kongphit, Santipong Prasattong and **Utoporn Phalavonk** “A Control System for Robot Movement” Math Journal by the Mathematical Association of Thailand, 2016, vol.61, no.688, Jan-April 2016, pp1-14.
- Elvin J Moore, Wisut Kichainukoon, and **Utoporn Phalavonk** “Maximum flow in road networks with speed-dependent capacities - application to Bangkok traffic” Songklanakarin Journal of Science and Technology, 2013, vol.35(4), pp489-499.
- Makmeesup, A., Moore, E., and **Phalavonk, U.** “Regression Analyses of Migration with an Application to Selected Provinces in Thailand” Thailand Statistician: The Journal of the Thai Statistical Association, 2011, vol.9(1), pp1-20.
- Wangdi, K., Prayote, A., and **Phalavonk, U.** “Classification of Credit Application Based on Imbalanced Dataset: A Case Study of National Pension and Provident Fund of Bhutan” The Proceedings of the 14th Annual Symposium on Computational Science and Engineering (ANSCSE 14), Chiang Rai, March 2010.
- Prinyanilakul, A., Moore, E., and **Phalavonk, U.** “Modeling Spatial Spread of Epidemics using Cellular Automata” The Proceedings of the 15th Annual Meeting in Mathematics (AMM 2010), Bangkok, March 2010.
- Kichainukoon, W., Moore, E., and **Phalavonk, U.** “Application of Capacitated Networks to Traffic Flow on Selected Bangkok Roads” The Abstracts of the 35th Congress on Science and Technology of Thailand, Chonburi, October 2009.
- Komson Petcon, Tanarat Dumrongwuttinon, Jennarong Premsiri, **Utoporn Phalavonk** and Elvin J. Moore (2008) “A Web-based E-learning System for Numerical Solution of Nonlinear Algebraic Equations” Paper Presented at the International Conference on Information Technology in Mathematics Education (ICITME 2008), Bangkok, May 2008.
- Manitcharoen, N., **Phalavonk, U.**, Clayton, G. (2008) “A Mathematical Model for Loss of Supply in a Power System” The Proceedings of the 12th Annual Symposium on Computational Science and Engineering (ANSCSE 12), Ubon Rajathanee, March 2008.
- Bootsingha, B., Nongpromma, P., Jeenmueang, K., Moore, E.J. and **Phalavonk, U.** (2007) “Analysis of Navigation of Populations of Mobile Robots Using Automata and Graph Theory” The Proceedings of the 3rd International Conference on 21st Century Mathematics, Lahore, March, 2007.
- Intarajak, T., **Phalavonk, U.**, Clayton, G. and O-Charoenrat, P. (2007) “Intelligent System for Diagnosis and Recording Breast Cancer Database of Breast Cancer Patients Case Study at Siriraj Hospital” Proceedings of the Annual Symposium on Computational Science & Engineering (ANSCSE11), Phuket, March, 2007.
- Astiti, A.A.S., Limthanmaphon, B. and **Phalavonk, U.** (2006) “The Development of an Online English Test Practice System for IELTS Preparation.” Proceedings of the 2nd National Conference on Computing and Information Technology (NCCIT'06), Bangkok, May, 2006, 39.
- Charoenthaikit, P., Lohpetch, D. and **Phalavonk, U.** (2005) “Application of Finite State Automaton in Presenting Mathematics Lesson on Web” The Proceedings of the International Conference in Mathematics and Applications (ICMA 2005), Bangkok, December, 2005.
- Phalavonk, U.**, Thaitrong, R. and Na Pomphet, N. (2003) “Two and Three Dimensional Vector Algebra on Web” Paper Presented at the ICASE (International Council of Associations for Science Education) International Workshop on Making Effective Use of WWW for Science, Mathematics and Technology Teaching, Bangkok, December, 2003.

- Kaewgrajang, A., Cheerakukit, C., Sungkasuk, S., Moore, E. and **Phalavonk, U.** (2003) "Optimal Routes for Travelling between Government Universities in Bangkok." The Proceedings of the 14th Australasian Workshop on Combinatorial Algorithms (AWOCA 2003), Seoul, July, 2003.
- Kerdwimaluang, N., Hompet, N., Kornchun, T., **Phalavonk, U.** and Moore, E. (2002) "Optimal Routes between KMITNB and Other Government Universities in Bangkok." East-West Journal of Mathematics, a Special Volume in Computational Mathematics and Modeling, 2002, pp.127-135.
- Supjarerndee, S., Temtanapat, Y. and **Phalavonk, U.** (2002) "Recruitment Filtering with Personality-Job Fit Model." The Proceedings of the International Conference on Information Technology: Coding and Computing, Las Vegas, April, 2002.
- Supjarerndee, S., Temtanapat, Y. and **Phalavonk, U.** (2002) "Job Application on the Web with Personality-Job Fit Model." The Proceedings of the 6th Joint Conference on Information Sciences (JCIS 2002), Durham, March, 2002.
- Wipawapornrujce, N., Magnanas, H.C., Sriharee, N. and **Phalavonk, U.** (2001) "An Efficient Method of Collision Resolution for MAC Protocol for HFC Networks : A Contribution to DQRAP/SCQRAP." The Proceedings of the World Multiconference on Systemics Cybernetics and Informatics (SCI 2001), Orlando, July, 2001
- Boonsinsuk, U., Burstein, F. and **Phalavonk, U.** (2001) "Web-Based Collaboration and Knowledge Sharing." The Proceedings of the World Multiconference on Systemics, Cybernetics and Informatics (SCI 2001), Orlando, July, 2001.
- Kamonwarin, P., Temtanapat, Y., and **Phalavonk, U.** (2000) "Academic Quality Assurance System: Data Warehousing Approach." The Proceedings of the World Multiconference on Systemics, Cybernetics and Informatics (SCI 2000), Orlando, July, 2000.
- Phalavonk, U.** Waewcharoen, S. and Sinutog, P. (1995) "Computer-Assisted Instruction in Calculus." Proceedings of The Second Asian Mathematical Conference, Nakhon Ratchasima, October, 1995.