



# MATHUPAYAS THONGMAK



## EDUCATION

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2003-2007 Chulalongkorn University

- **Ph.D., Doctor of Philosophy program in Computer Engineering.**
- Grade Point Average 4.00
- Thesis "Using Design Principle Violation Check Definitions for Evaluating Aspect-Oriented Software Maintainability"

2000-2002 Chulalongkorn University

- **M.S., Master of Science (Computer Science).**
- Grade Point Average 3.81
- Thesis "Design of Rules for Transforming UML Sequence Diagrams into Java code"

1996-1999 Thammasat University

- **B.B.A., Bachelor of Business Administration.**
- Major: Management Information Systems, Minor: Accounting.
- Grade Point Average 3.36 (2<sup>nd</sup> class hons.)

## PUBLICATIONS

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- Mathupayas Thongmak and Pornsiri Muenchaisri, "Aspect-Oriented Design Guidelines"
- Mathupayas Thongmak and Pornsiri Muenchaisri, "Maintainability Metrics for Aspect-Oriented Software" to be published in the International Journal of Software Engineering and Knowledge Engineering (IJSEKE), World Scientific Publishing Corporation, May 2009.
- Mathupayas Thongmak and Pornsiri Muenchaisri, "CHECKING VIOLATIONS OF THE OBJECT-ORIENTED DESIGN HEURISTICS", ISCA 17th International Conference on Software Engineering and Data Engineering (SEDE2008), Los Angeles, California USA, June 30 - July 2, 2008.
- Mathupayas Thongmak and Pornsiri Muenchaisri, "Predicting Faulty Classes using Design Metrics with Discriminant Analysis", In the proceedings of The 2003 International Conference on Software Engineering Research and Practice (SERP'03), Monte Carlo Resort, Las Vegas, Nevada, USA, June 23-26, 2003.
- Mathupayas Thongmak and Pornsiri Muenchaisri, " Design of Rules for Transforming UML Sequence Diagram into Java Code", In the proceedings

of the 9th Asia-Pacific Software Engineering Conference (APSEC2002), Gold coast, Queensland, Australia, December 4-6, 2002.

- Mathupayas Thongmak and Pornsiri Muenchaisri, "Using UML Metamodel to Specify Patterns of Design Refactorings", The Eight National Computer Science and Engineering Conference (NCSEC2004), Hat Yai, Songkhla, Thailand, October 21-22, 2004.
- Mathupaysa Thongmak and Pornsiri Muenchaisri, "Using Discriminant Analysis to Predict Faults in a Class at Design Phase", In the proceedings of the Seventh National Computer Science and Engineering Conference (NCSEC2003), Burapa University, Cholburi, Thailand, October 28-30, 2003.
- Mathupayas Thongmak and Pornsiri Muenchaisri, "An Approach for Transforming UML Sequence Diagrams into Java code", In the proceedings of the 6th National Computer Science and Engineering Conference (NCSEC2002), Pattaya, Cholburi, Thailand, October 29-31, 2002.