

Student Supervision

By Teddy Mantoro

Summary

In supervision student's project, my experience is as follow:

- a. 12 Final Year Project (FYP) students, (including 4 students in progress), 4 Industrial Attachment (IA) students and 1 PhD student (co-supervisor) at Department of Computer Science, International Islamic University Malaysia, Kuala Lumpur, Malaysia in 2008/2010.
- b. An honour student at the College of Engineering and Computer Science (CECS), ANU in 2005/2006.
- c. 121 Bachelor Degree and Diploma students for their thesis/final projects, when I worked as a lecturer in University Budi Luhur, Jakarta, Indonesia (1995/1999) (list available on request).

Field of Study:

Some of these students completed their projects in the areas of *Ubiquitous Computing, Expert System, Computer Security, Software Engineering, Computer Networking and Artificial Intelligent* The following are the titles of some of their theses:

a. *Ubiquitous Computing/Pervasive Computing and Wireless Sensor Network*

- Abi Dzar Bin Jaafar and Mohd Fadhi Bin Md. Aris *Hajj Pilgrimage Tracking and Navigation via GPS-GSM*, International Islamic University, Kuala Lumpur, Malaysia. January 2010 (on progress).
- Mohamed Haroon Shoukat Ali *Energy Efficiency of clustered Wireless Sensor Network Through Controlled Base-Station Mobility*, International Islamic University, Kuala Lumpur, Malaysia. January 2010 (on progress).
- Merdic Macic, *Indoor User Location System in Blackberry Environment for Mobile User*, International Islamic University, Kuala Lumpur, Malaysia. January 2010 (on progress).
- Siti Athirah Binti Saharudin, Supiah Binti Selamat, *User Navigation Using GPS in IIUM Campus*, Department of Computer Science, International Islamic University, Kuala Lumpur, Malaysia. November 2009.
- Asma Nuraini Binti Remali, Sulafa Binti Mohd. Amin, *Location-Aware Computing Using Self-Organizing Map Based on IEEE 802.11 Signals*, Department of Computer Science, International Islamic University, Kuala Lumpur, Malaysia. November 2009.
- Mohd. Firdaus Bin Zahari, Wan Norfardirul B. Wan Rastam *Minimum Spanning Tree in Wireless Sensor Network Energy Efficiency*, Department of Computer Science, International Islamic University, Kuala Lumpur, Malaysia. April 2009.
- Ahmad Azizan bin Idris, Salahuddin Bin Wan Khairuzzaman, *Indoor Symbolic Location Determination using IEEE 802.11 Signals in Location-Aware Computing*. Department of

Computer Science, International Islamic University, Kuala Lumpur, Malaysia. April 2009.

b. Expert System

- Gregorius H.G. K. An Expert System to Diagnose Health Problems in under One Year Old Babies (Sistem Pakar untuk Mendiagnosa Gangguan Kesehatan pada Bayi Pra – Setahun) , Budi Luhur University, Jakarta, Indonesia, 4 August 1997.
- Endang Mulyanto, *The Prototype of Expert System for Fern Determination* (Prototipe Sistem Pakar untuk Determinasi Tumbuhan Paku), Budi Luhur University, Jakarta, Indonesia, 8 April 1997.
- Sugih Arto, *Analysis and Plant Disease Prevention Using Expert System* (Analisa dan Penanggulangan Penyakit Pada Tanaman Menggunakan Sistem Pakar), Budi Luhur University, Jakarta, Indonesia, 17 December 1998.
- Mila Kurniati Rahma, *Software Development in Helping the Diagnosis of Typhus, Malaria and Dengue based on Expert System* (Pengembangan Perangkat Lunak bantu Diagnosis Berbasis Sistem Pakar untuk Kasus Penyakit Tipus, Malaria dan Demam Berdarah), Budi Luhur University, Jakarta, Indonesia, 30 April 1999.

c. Computer Security

- Denny Widodo, *Securing Data Transmission Using Modified Data Encryption Standard (DES) and Message Digest Version 5 (MD5)* (Pengamanan Transmisi Data dengan Menggunakan Modifikasi Data Encryption Standar (DES) dan Message Digest Versi 5 (MD5)), Budi Luhur University, Jakarta, Indonesia, 22 March 1999.
- Sunarto, *The Roles of Symmetric Key Cryptography Algorithm in Data Encoding Process* (Peranan Algoritma Kriptografi Symetric Key dalam Encoding Data), Budi Luhur University, Jakarta, Indonesia, 19 October 1998.
- Agus Danuwidodo, *Encryption Algorithm Based on Permutation Methods for the Binary Systems* (Algoritma Enskripsi Dengan Menggunakan Metode Permutasi Pada Sistem Bilangan Biner), Budi Luhur University, Jakarta, Indonesia, 29 March 1999.

d. Software Engineering

- Helna Wardhana, *Computerisation Design of the Financial Accounting System at Persahabatan Public Hospital* (Perancangan Komputerisasi Sistem Akuntansi Keuangan Pada Rumah Sakit Umum Pusat Persahabatan), Budi Luhur University, Jakarta, Indonesia, 3 April 1997
- Rusdiansyah, *Information System Design of the Inventory Control of Returnable Goods of PT. Kharisma Cabang Puri Mal* (Perancangan Sistem Informasi Persediaan Barang-Barang Returnable Pada PT. Kharisma Cabang Puri Mal), Budi Luhur University, Jakarta, Indonesia, 25 March 1999

e. Artificial Intelligent

- Imelda, *The Implementation of Turing Machine for the Simple Math Operation Using Prolog Language* (Penerapan Mesin Turing Pada Operasi Matematika Sederhana Menggunakan Bahasa Prolog), Budi Luhur University, Jakarta, Indonesia, 4 March 1998

- Rey Mannix, *The Optimization of Managing Traffic Lights Using Fuzzy Logic* (Optimasi Lampu Pengatur Lalu Lintas Menggunakan Fuzzy Logic), Budi Luhur University, Jakarta, Indonesia, 18 September 1999
- Nata Diredja *The Growing Network Optimization of the Travelling Salesman Problem (TSP) Using Hopfield Net Approach* (Penggunaan Jaringan Hopfield Untuk Optimasi Masalah Pedagang Keliling), Budi Luhur University, Jakarta, Indonesia, 22 May 1996
- James Purnama, *The Implementation of Decomposition Function Using Armstrong Inference Rules for Database Normalisation* (Implementasi Dekomposisi Fungsi Dengan Armstrong Inference Rules Untuk Normalisasi Database), Budi Luhur University, Jakarta, Indonesia, 24 March 1999