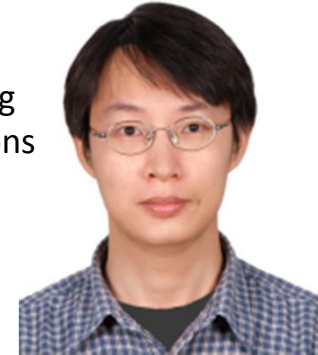


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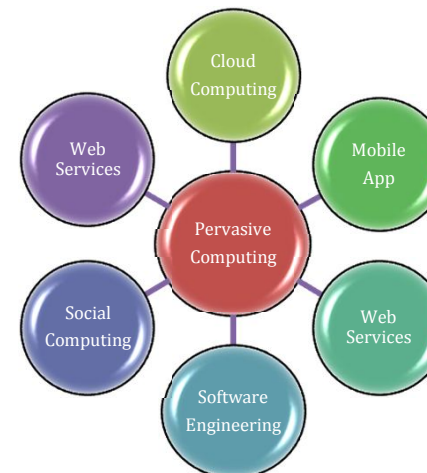
Education

Ph.D. Computer Science, National Central University, R.O.C. 2004
M.S. Computer Science, National Chiao Tung University, R.O.C. 1996

Research Interest

My research interest focuses on software engineering, mobile and pervasive computing, semantic web and web services composition, and human computer interaction. For examples, my laboratory proposed an aspect oriented modeling process and notations extended from Unified Modeling Language (UML) for modeling smartphone anti-robbing system to deal with the context dependence among sensors and corresponding reactive functionalities [2], as well as establishing a context-aware plug and play universal remote controller. User can control appliance easily which is recognized by NFC, download appliance's specific description through Bluetooth, and then generate dynamic graphical user control interface of the appliance [2]. We also provided a software framework, called Process-Data-Widget, to assist designers with building mashup applications [3]. Furthermore, we invented a participant-oriented model, which is an extension and revision of current Service-Oriented Architecture (SOA) model, for modern software and application development influencing by newly emerging trends and technologies. [4].

Besides, my laboratory also presented technical survey and observation including indispensable background and preliminary knowledge on automated service composition[5], as well as addressing the issue of automatic composing web services into an executable workflow not only according to user's functional requirements but also to their transactional properties and QoS characteristics using genetic algorithm approach [6]. Another new research interest emerges as human computer interaction, which is integrating with social and pervasive computing on mobile device app and clouds.



Selected Publication

1. Semantics Weaving in Aspects Modeling for Mobile Software, *Advanced Science Letters*. 2014 Jan 20(1): 14-19.
2. Adaptive User Interface for Universal Remote Controller, *International Journal of Computational Science and Engineering*. 2013 (to appear).
3. Process-Data-Widget: a REST-Based Software Framework for Building Mashup Applications, *Applied Mathematics and Information Sciences*. 2013 Mar 7(2): 439-446.
4. Towards a Participant-Oriented Model to Enhance SOA Model with Mobility, *Lecture Notes in Engineering and Computer Science*. 2200(1): 392-397, 2012
5. A Survey on Automated Service Composition Methods and Related Techniques. *2012 IEEE Ninth International Conference on Services Computing (SCC)*. 2012.
6. Towards a Genetic Algorithm Approach to Automating Workflow Composition for Web Services with Transactional and QoS-Awareness, *2011 IEEE World Congress on Services (SERVICES)*. 2011.

Financial Support for Ph.D. Students

[Stipend]

1. National Science Council (NSC) Scholarship for Ph.D. : up to NT 12,000/mo
2. Ministry of Education Teaching Excellent Project for Ph.D. : up to NT 12,000/mo (Teaching assistant, optional)
3. Fu Jen Catholic University International PhD student Scholarship: NT 10,000/mo

[Tuition]

1. The 1st and 2nd year tuition is waived (around NT 220,000).
2. The tuition will be free after the 3rd year of Ph.D. program