

Curriculum Vitae

# Somnuk Keretho



Born: 24.02.1959 in Bangkok

Citizenship: Thai

Work: Kasetsart University, Dept of Computer Engineering, Asst Prof.  
Kasetsart University, Institute for IT Innovation (Inova), Director

Education/Degree: PhD (Computer Science), University of Louisiana at Lafayette, USA  
M.Eng. (Computer Applications), Asian Institute of Technology, Thailand  
M.Eng (Electrical Engineering), Kasetsart University, Thailand

## Scientific Achievements

Books: 7 co-authored. Most important:

- Keretho S (as the main author) (2012) Single Window Planning and Implementation Guide, United Nations (UNESCAP & UNECE) Publication.
- Keretho S (co-author) (2011, and 2nd Edition in 2013) Business Process Analysis for Simplify Trade Procedures, United Nations (UNESCAP & UNECE) Publication.
- Keretho S (co-author) (2012) Data Harmonization and Data Modelling Guide for Single Window Environment, United Nations (UNESCAP & UNECE) Publication.

Papers: 30 co-authored. Most important:

- Keretho S, Lent B (2014) The Evaluation of the Degree of the e-Government Strategy Implementation in Thailand and Reasoning for the Next Step Activities, APEE 2014 Shanghai Proceedings, DEStech, Lancaster, USA.
- Suchaya S, Keretho S (2014) Analyzing National e-Government Interoperability Frameworks: A Case of Thailand, the 9th IEEE International Conference on Digital Information Management (ICDIM) Proceedings.
- Keretho S, Pikart M, Trends for collaboration in international trade: Building a common Single Window Environment, United Nations Economic Commission for Europe, Geneva, 2013.
- Phuaphanthong T, Bui T, Keretho S, Harnessing Interagency Collaboration in Interorganizational Systems Development: Lessons Learned from an E-government Project for Trade and Transport Facilitation, International Journal of Electronic Government Research (IJEGR), Volume 6, Number 3, 2010.

Supervision: 1 PhD completed, 2 PhD ongoing candidates,  
30 M.Eng. and MS in Computer Engineering and ICT

Lectures: 25 various programs related to Software Engineering, CMMI, Team Software Process, Object-oriented Programming, Business Process Analysis, Project Management, e-Government Strategy and Planning, and Enterprise Architecture.

Consultancy and Industrial Implementation: more than 40 projects

Grants: About 15 million USD (from Thailand, APEC, World Bank, Asian Development Bank, UNESCAP, UNECE)

## Professional Career

2014 – 2015 Project Director, National Development Roadmap for e-Freight/e-Transport (Cargo Community Systems for sea/air/cross-border transportation), Ministry of Transport, Thailand.

2014 – 2015 Project Director, the National Strategy and Planning for the second phase of National Single Window for Trade Facilitation/Logistics, National Economic and Social Development Board, Thailand.

2014 – 2015 Researcher, Thailand e-Government Enterprise Architecture Framework and Guide, Ministry of ICT and e-Government Agency, Thailand.

2013 Researcher, ICT Security Framework and Actions Plan for ASCOM Defence Information Systems and Environment, Army, funded by the National Research Council of Thailand.

2012 Project Director, Design and Implementation of e-Government (CS-01), Institutional Capacity Building on ICT Policies in Thailand (World Bank/IBRD Grant No. TF097929) for the Ministry of ICT.

2012 Project Director, Electronic Trade Facilitation 5-year Development Roadmap for Greater Mekong Subregion (6 Countries), Asian Development Bank.

2012 – 2014 Project Consultant, the Design and Development of e-Permits/e-Certificate Management System Phase 2-3, Department of Agriculture, Ministry of Agriculture and Cooperative, Thailand.

2011 – 2012 Project Director, the Design and Development of e-Permits/e-Certificate Management System Phase 1, Department of Agriculture, Ministry of Agriculture and Cooperative, Thailand.

2011 – ongoing Founding Member and Board Member, Association of Thailand IT Architecture, Thailand (formally IASA Thailand Chapter)

2010 – ongoing Founding Member and Advisory Committee, United Nations Network of Experts in Paperless Trading for Asia and the Pacific, UNESCAP.

2010 – 2011 Project Director, the Development of Thailand e-Government Interoperability Framework Phase 5, Ministry of ICT, Thailand.

2010 – 2011 Project Consultant, Preparation and Certification CMMI of Swiss Company MIMACOM AG

2008 – 2009 Project Director, the Development Thailand e-Government Interoperability Framework Phase 3, Ministry of ICT, Thailand.

2008 – 2011 Project Director, Design and Implementation Project of Automatic Electronic Gate System for Bangkok Sea Port and e-Toll Collection

- System for Laemchabang Sea Port, Port Authority of Thailand (about 11 million USD project).
- 2009 Project Director, the APEC Project on Data Harmonization towards Single Window Paperless Trading Environment - working with 21 Asia Pacific Cooperation (APEC) Member Economies.
- 2007 Project Director, Transport Single Window e-Logistics Phase 1 – Three Years Master Plan Development, Ministry of Transport, Thailand
- 2005 – 2006 Trade Facilitation and Paperless Trade Specialist at the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), Bangkok, Thailand - providing a Trade Facilitation and ICT-enabled paperless development programme for Asia and the Pacific countries as the roles for UNESCAP.
- 2004 – ongoing Founder and Director, the Institute for IT Innovation (Inova), a research and development institute of Kasetsart University, specializing in ICT-enabled innovation, trade facilitation and e-logistics initiatives including National Single Window strategic planning and implementation, enterprise architecture for e-government and e-business, business process analysis and redesign, data harmonization and modelling, ICT-related standards and interoperability, e-transaction related laws, and process-oriented quality software engineering.
- 2004 – 2005 Director, e-Commerce Resource Centre (under the supervision of National Electronic and Computer Technology Centre, Ministry of Science and Technology) as the national e-commerce policy formulation for the Cabinet, and also as the national resource and training centre of the country.
- 1999 – 2004 Founder and Program Manager of the Master of Science Degree Program in Information Technology, Kasetsart University
- 1998 – 2001 Founder and Program Manager of the Master of Engineering Degree Program in Computer Engineering, Kasetsart University
- 1998 – 2003 Head of Department of Computer Engineering, Kasetsart University
- 1993 – ongoing University Assistant Professor of Kasetsart University, the Department of Computer Engineering, teaching and supervising research of undergraduate, master and PhD students in the areas of software engineering, information technology management, and enterprise architecture.

## **Education**

- 09-13.03.2010 TOGAF 9 Certificate, and TOGAF 9 for Practitioners (Level 1 & 2), organized by UK Architecting the Enterprise.

- 2001 Certified SCAMPY Lead Appraiser, and Standard CMMI-based Appraisal Method for Process Improvement (SCAMPI) Lead Appraiser Training, Software Engineering Institute, Carnegie Mellon University, USA.
- 1999 Certified CMMI Trainer, and Capability Maturity Model for Software Certified Instructor Training, Software Engineering Institute, Carnegie Mellon University, USA.
- 1992 PhD (Computer Science) University of Louisiana at Lafayette, USA.
- 1986 M.Eng. (Electrical Engineering), Kasetsart University, Thailand
- 1985 M.Eng. (Computer Applications), Asian Institute of Technology, Thailand
- 1980 B.Eng. (Electrical Engineering), Kasetsart University, Thailand.