



The 7th International Conference on ICT and Knowledge Engineering

# ICT & Knowledge Engineering 2009

Conference dates: **December 1-2, 2009.**

Siam University, Bangkok, Thailand

## Summary

### Aim

The aim of the conference is to promote research in ICT and Knowledge Engineering by bringing together researchers and practitioners in the field to exchange ideas, to report on up-to-the-minute innovations and developments, and to present results from research on ICT and Knowledge Engineering areas and various related fields. The emphasis of the conference is on interdisciplinary scientific exchange demonstrating openness towards high-quality research falling outside current dominant schools of thought, and on technological transfer within the world wide region.

### Summary

The conference is sponsored by Siam University, the Pacific Distance Multimedia Education Network (APDMEN), IEEE, and IEEE Thailand Section. All accepted papers will be included in the Conference Proceedings and will be available through IEEE Xplore web distribution system (IEEE Catalog Number: **CFP0928H**, ISBN: **978-1-4244-4514-1**, Library of Congress: **2009903600**).

This year we received 52 contributions from 14 countries. The technical program committee selected 23 papers for all the oral presentations. We invited 2 distinguished professors for the keynote addresses. Prof. Dr. Toshio Obi will talk about “Super CIO for Knowledge Society” after the opening ceremony and Prof. Dr. James G. Williams will talk about “Comparing Knowledge Engineering to Software Engineering” in the afternoon session of the first day.

## Conference Committees

### Steering Committees

Dr. Pornchai Mongkhonvanit

Prof. Dr. Toshio Obi

Assoc. Prof. Dr. Wichian Premchaiswadi

### Organizing Committee Chair

Assoc. Prof. Dr. Wichian Premchaiswadi

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**Technical Program Committee Member**

Prof. Dr. Spring B. Michael

Umaly C Ruben

Assoc. Prof. Dr. Worapoj Kresuradert

Assist. Prof. Dr. Putchong Uthayopas

Dr. Wasan Pattara-atikom

**Secretariat/ Treasurer**

Nipat Jongsawat/ Walisa Romsaiyud

**Themes and topics**

Including but not limited to:

- Algorithms and Data Structures

- Applications of Knowledge and Data Engineering
- Data Mining
- Databases and Data Modeling
- Distributed Services
- E-Learning, E-Business, E-Academic, E-Government
- Emerging Issues in Data Management
- Expert & Knowledge-based Systems
- Information Retrieval
- Intelligent Agents
- Knowledge Acquisition in Intelligent
- Knowledge Engineering and Intelligence System
- Knowledge Management
- Knowledge Management Human
- Knowledge-Based Systems
- Logic Programming
- Machine Learning
- Mobile Agents
- Multimedia Storage Management
- Object-Oriented Analysis
- Object-Oriented Databases
- Optimization Problems
- Specialized Databases
- Web Technologies and other related topics

### **List of all accepted papers**

A Development Model of Knowledge Expertise System for Air Traffic Services

*Thaveesak Ganjanasuwan, Sunun Nimfuk*

An Effective E-Learning Framework Model - A Case Study

*N Vivekananthamoorthy, S Sankar, R Siva, S Sharmila*

An Empirical Study of Group Awareness Information in Web-Based Group Decision Support System in a Field Test Setting

*Nipat Jongsawat, Wichian Premchaiswadi*

Application of Adaptive Neuro Fuzzy Inference System for Outage Cost Evaluation

*Panuwat Teansri, Pornrapeepat Bhasaputra, Worarat Pattaraprakorn*

Bi-Dimensional Position Detection using TDOA Estimation through Cross Correlation of the Acoustic Signals.

Part 1: Theoretical Background & Bi-Dimensional Position Detection Using TDOA Estimation through Cross Correlation of the Acoustic Signals

Part 2: Experimental Testing and Validation

*Teodor Lucian Grigorie, Jenica Ileana Corcau, Mihai Lungu, Dragos George Sandu*

CIO for Governing Innovation in Information Society-Case Study: Educating Green ITS at University in Japan

*Toshio OBI*

Critical Appraisal on Project Management Approaches in e-Government

*Demetrios Sarantis, Dimitris Askounis, Steve Smithson*

Developing a Control Model of Infant Climbing Behavior for Injury Prevention

*Koji Nomori, Yoshifumi Nishida, Yoichi Motomura, Tatsuhiko Yamanaka, Akinori Komatsubara*

EEAR: Efficient Energy Aware Routing in Wireless Sensor Networks

*Munazza Younus, Abid Ali Minhas, M. Younus Javed, Atif Naseer*

Efficient General Genre Video Abstraction Scheme for Embedded Devices Using Pure Audio Cues

*Rajen B. Bhatt, P. Krishnamoorthy, Sarvesh Kumar*

Factors Analysis on Stock Exchange of Thailand (SET) Index Movement

*Phaisarn Sutheebanjard, Wichian Premchaiswadi*

Fuzzy Model for Outage Cost Assessment of Textile Industries in Thailand

*Thanet Detmote, Pornrapeepat Bhasaputra*

Geographical Information System of Soil Data for Construction Purpose: Retrieving the Physical Soil Characteristics from Bore Log and Google earth

*Prapat Uthayopas, Chalermkiat Wongvanichtawee, Prayooth Bhundularp*

Intelligent Switching Method using Cell-ID/GPS Positioning on Mobile Application

*Walisa Romsaiyud, Wichian Premchaiswadi*

Knowledge Discovery in Tolerance Relations

*Wanjing Cai, Yongli Li*

New Paradigms for Innovation in Teaching and Learning Process

*N Vivekananthamoorthy, S Sankar, R Siva, S Sharmila*

Recommender Systems: Improving Collaborative Filtering Results

*Jesus Bobadilla, Francisco Serradilla, Abraham Gutiérrez*

SFBR: A Secure Field Based Routing Approach for Wireless Mesh Network

*Atif Naseer, M. Younus Javed, Fazl-e-Hadi*

Spatial Color Indexing using ACC Algorithms

*Anucha Tungkasthan, Wichian Premchaiswadi*

Structural Relations between Factors Influencing Value in Pursuing Studies at Private Vocational Schools

*Olan Karnchanakas, Ravewan Shinatrakool, Sawat Udompoch, Narong Pimsarn*

Study on Fault Prognostication on the Mainly Transmission System of Armored Vehicle

*Yao Zhuting Pan Hongxia*

The Role of Government CIO for Business Continuity Planning in Knowledge Society

*Naoko IWASAKI*

Web Based Application Maintenance Time Modeling

*Somchai Prakancharoen*

## **Plan for the 8<sup>th</sup> International Conference on ICT & Knowledge Engineering 2010 – IEEE Conference**

### **Program**

Full Paper Due: **July 1, 2009**

Notification of Acceptance/ Online Registration: **September 1, 2009**

Camera Ready/ Conference Payment Due: **October 1, 2009**

Conference Dates: **November 24-25, 2009**

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- Object-Oriented Databases
- Optimization Problems
- Specialized Databases
- Web Technologies and other related topics

## Special issues

- e-HealthCare

Including but not limited to:

1. **Web Intelligence** - Web 2.0 and social networks, techniques for harnessing and mining user-generated content, provision of pertinent information to patients, outbreak detection and early warning systems, data collection and analysis for surveillance and epidemiology
2. **Privacy, trust and security** - electronic patient records, models for trust and privacy, novel mobile encryption technologies, identity federation, role based access control, privacy enhancing technologies
3. **Healthcare ontology's and knowledge management systems** - annotation, health care ontology's, coding standards, communication standards, quality tagging and quality of service, distribution issues, coding systems and ontology mapping, search, user customization, alert agents
4. **E-learning, educational games and the impact of information delivery to patients and professionals** - using digital libraries in building online communities, moderated discussion groups, qualitative and quantitative evaluation studies, user attitudes towards the knowledge, studies of changes of user attitude with respect to digital libraries
5. **Web 2.0 in healthcare, wellbeing and online communities of practice** - community of practice, Web 2.0, user support groups, blogs, personalization and profiling, online support for healthy lifestyle, wellbeing and public interventions

## Sponsors

<b>Organization</b>	<b>Type</b>
Association of International Association of University Presidents (IAUP)	Technical sponsor
Asia and Pacific Distance Multimedia Education Network (APDMEN)	Technical sponsor
IEEE/IEEE Thailand	Technical sponsor
Siam University	Technical sponsor/ Budget support

## Contact

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### **IEEE ICT & Knowledge Engineering 2009 Event's Pictures**



**Our conference's attendees**



**Exhibition**





**Group Photos**