

# PROGRAM GUIDE



**ICT-EURASIA 2013**

**INFORMATION & COMMUNICATION TECHNOLOGY-EURASIA CONFERENCE**

**ASIAARES 2013**

**THE 2013 ASIAN CONFERENCE ON AVAILABILITY, RELIABILITY AND SECURITY**

Supported by



## PROGRAM OVERVIEW

	MONDAY, 25.03.		TUESDAY, 26.03.		WEDNESDAY, 27.03.	
Time	Lecture Hall A	Time	Lecture Hall A	Lecture Hall B	Lecture Hall A	Lecture Hall B
		08:00 - 17:00	REGISTRATION		REGISTRATION	
		09:00 - 10:30	Opening		ICTEurAsia 3	AsiaARES 3
10:30 - 17:00	REGISTRATION	10:30 - 11:00	Break		Break	
11:00 - 12:30	PhD Symposium	11:00 - 12:30	Keynote <i>Prof. Dr. Josef Küng</i>		ICTEurAsia 4	AsiaARES 4
12:30 - 13:30	Lunch	12:30 - 13:30	Lunch		Lunch	
13:30 - 15:00	PhD Symposium	13:30 - 15:00	ICTEurAsia 1	AsiaARES 1	ICTEurAsia 5	AsiaARES 5
15:00 - 15:30	Break	15:00 - 15:30	Break		Break	
15:30 - 17:00	PhD Symposium	15:30 - 17:00	ICTEurAsia 2	AsiaARES 2	ICTEurAsia 6	AsiaARES 6
			Welcome Dinner			

	THURSDAY, 28.03.		FRIDAY, 29.03.	
Time	Lecture Hall A	Lecture Hall B	Lecture Hall A	Lecture Hall B
08:00 - 17:00	REGISTRATION		REGISTRATION	
09:00 - 10:30	ICTEurAsia 7		Tour to the Ancient Temple Borobudur + Lunch	
10:30 - 11:00	Break			
11:00 - 12:30	ICTEurAsia 8	AsiaARES 7		
12:30 - 13:30	Lunch			
13:30 - 15:00	AsiaARES 8	AsiaARES 9		
15:00 - 15:30	Break			
15:30 - 17:00	AsiaARES 10	AsiaARES 11		
	Conference Dinner + Ramayana Ballet			

**MONDAY, MARCH 25, 2013**

*10:30-17:00 Registration Desk opened*

**11:00-12:30 PhD Symposium 1**

Location: Lecture Hall A

*12:30-13:30 Lunch Break*

**13:30-15:00 PhD Symposium 2**

Location: Lecture Hall A

*15:00-15:30 Coffee Break*

**15:30-17:00 PhD Symposium 3**

Location: Lecture Hall A

## TUESDAY, MARCH 26, 2013

08:00-17:00 Registration Desk opened

09:00-10:30 Plenary Session

### Opening

Location: Lecture Hall A

10:30-11:00 Coffee Break

11:00-12:30 Plenary Session

### Keynote

Location: Lecture Hall A

Techniques and Trends in Databases

*Prof. Dr. Josef Küng, Johannes Kepler University Linz, Austria*

12:30-13:30 Lunch Break

13:30-15:00 Parallel Sessions

### ICTEurAsia 1: Cloud and Internet Computing

Location: Lecture Hall A

1. Indonesian Digital Natives: ICT Usage Pattern Study across Different Age Groups  
*Neila Ramdhani, Wisnu Wiradhany*
2. A Genetic Algorithm for Power-Aware Virtual Machine Allocation in Private Cloud  
*HUNG Nguyen Quang, NAM Nguyen Hoai, NIEN Pham Dac, Nguyen Huynh Tuong, Nam Thoai*
3. Cloud-Based E-Learning : A Proposed Model and Benefits by Using E-Learning Based on Cloud Computing for Educational Institution  
*Nungki Selviandro, Zainal Arifin Hasibuan*

### AsiaARES 1: Dependable Systems and Applications 1

Location: Lecture Hall B

1. Secure and Verifiable Outsourcing of Sequence Comparisons (*virtual*)  
*Yansheng Feng, Xiaofeng Chen, Hua Ma*
2. Based Secure Data-Level Access Control  
*Nisreen Alam Aldeen, Gerald Quirchmayr*

3. On the efficiency modelling of cryptographic protocols by means of the Quality of Protection Modelling Language (QoP-ML) *(virtual)*  
*Bogdan Ksiezopolski, Damian Rusinek, and Adam Wierzbicki*

*15:00-15:30 Coffee Break*

*15:00-15:30 Parallel Sessions*

**ICTEurAsia 2: E-Society 1**

**Location: Lecture Hall A**

1. Translating the Idea of the eGovernment One-Stop-Shop in Indonesia  
*Fathul Wahid*
2. A Practical Solution Against Corrupted Parties and Coercers in Electronic Voting Protocol over the Network  
*Ai Thao Nguyen Thi, Tran Khanh Dang*
3. Early-Detection System for Cross Language (Translated) Plagiarism  
*Khabib Mustofa, Yosua Albert Sir*

**AsiaARES 2: Dependable Systems and Applications 2**

**Location: Lecture Hall B**

1. DiffSig: Resource Differentiation based Malware Behavioral Concise Signature Generation (virtual)  
*Huabiao Lu, Baokang Zhao, Xiaofeng Wang, Jinshu Su*
2. On Identifying Proper Security Mechanisms  
*Jakub Breier, Ladislav Hudec*
3. Identity Management Lifecycle - Exemplifying the Need for Holistic Identity Assurance Frameworks  
*Jostein Jensen*

*17:00 Social Event 1*

**Welcome Dinner at the Universitas Gadjah Mada**



## **WEDNESDAY, MARCH 27, 2013**

*08:00-17:00 Registration Desk opened*

*09:00-10:30 Parallel Sessions*

### **ICTEurAsia 3: E-Society 2**

**Location: Lecture Hall A**

1. End-to-End Delay Performance for VoIP on LTE System in Access Network  
*Liang Shen Ng, Noraniah Ismail, Tutut Herawan*
2. TransWiki: Supporting Translation Teaching  
*Robert P. Biuk-Aghai, Hari Venkatesan*
3. Physicians' Adoption of Electronic Medical Records: Model Development Using Ability – Motivation - Opportunity Framework  
*Rajesri Govindaraju, Aulia Hadining, Dissa Chandra*

### **AsiaARES 3: Dependable Systems and Applications 3**

**Location: Lecture Hall B**

1. A Recovery Approach for SQLite History Recorders from YAFFS2 (*virtual*)  
*Beibei Wu, Ming Xu, Haiping Zhang, Jian Xu, Yizhi Ren, Ning Zheng*
2. UVHM: Model Checking based Formal Analysis Scheme for Hypervisors  
*Yuchao She, Hui Li, Hui Zhu*
3. SA4WSs: a Security Architecture for Web Services (*virtual*)  
*Lingxia Liu, Dongxia Wang, Jinjing Zhao, Minhuan Huang*
4. Verifying Data Authenticity and Integrity in Server-Aided Confidential Forensic Investigation (*virtual*)  
*Shuhui Hou, Ryoichi Sasaki, Tetsutaro Uehara, Siuming Yiu*

*10:30-11:00 Coffee Break*

*11:00-12:30 Parallel Sessions*

### **ICTEurAsia 4: Knowledge Management 1**

**Location: Lecture Hall A**

1. A Data-Driven Approach Toward Building Dynamic Ontology  
*Dhomas Hatta Fudholi, Wenny Rahayu, Eric Pardede, Hendrik*

2. Estimation of Precipitable Water Vapor Using an Adaptive Neuro-Fuzzy Inference System Technique  
*Wayan Suparta, Kemal Maulana Alhasa*
3. Using Semantic Web to Enhance User understandability for Online Shopping License Agreement  
*Muhammad Asfandeyar, A Min Tjoa*

#### **AsiaARES 4: Dependable Systems and Applications 4**

**Location: Lecture Hall B**

1. A Variant of Non-Adaptive Group Testing and its Application in Pay-Television via Internet  
*Thach V. Bui, Thuc D. Nguyen*
2. A Proposal on Security Case based on Common Criteria  
*Shuichiro Yamamoto, Tomoko Kaneko, Hidehiko Tanaka*
3. An Adaptive Low-Overhead Mechanism for Dependable General-Purpose Many-core Processors  
*Wentao Jia, Rui Li, Chunyuan Zhang*
4. A Test Case Generation Technique for VMM Fuzzing (*virtual*)  
*Xiaoxia Sun, Hua Chen, Jinjing Zhao, Minhuan Huang*

*12:30-13:30 Lunch Break*

*13:30-15:00 Parallel Sessions*

#### **ICTEurAsia 5: Knowledge Management 2**

**Location: Lecture Hall A**

1. On Efficient Processing of Complicated Cloaked Regions for Location Privacy Aware Nearest-Neighbor Queries  
*Chan Nam Ngo, Tran Khanh Dang*
2. Mobile Collaboration Technology in Engineering Asset Maintenance – What Technology, Organisation and People Approaches are required?  
*Faisal Syafar, Jing Gao*
3. Information Systems Strategic Planning for a Naval Hospital  
*Hery Muljo, Bens Pardamean*

## **AsiaARES 5: Cryptography 1**

**Location: Lecture Hall B**

1. New Ciphertext-Policy Attribute-Based Access Control with Efficient Revocation (*virtual*)  
*Xingxing Xie, Xiaofeng Chen, Hua Ma, Jin Li,*
2. Provably Secure and Subliminal-Free Variant of Schnorr Signature (*virtual*)  
*Yinghui Zhang, Hui Li*
3. Anonymous Lattice-Based Broadcast Encryption (*virtual*)  
*Adela Georgescu*

*15:00-15:30 Coffee Break*

*15:30-17:00 Parallel Sessions*

## **ICTEurAsia 6: Security and Privacy**

**Location: Lecture Hall A**

1. Semantic-aware Obfuscation for Location Privacy at Database Level  
*Thu Le, Khanh Dang*
2. Practical Constructions of Face-based Authentication Systems with Template Protection Using Secure Sketch  
*Tran Tri Dang, Quynh Chi Truong, Tran Khanh Dang*
3. Code Based KPD Scheme With Full Connectivity: Deterministic Merging (*virtual*)  
*Pinaki Sarkar, Aritra Dhar*

## **AsiaARES 6: Cryptography 2**

**Location: Lecture Hall B**

1. On the Security of an Authenticated Group Key Transfer Protocol Based on Secret Sharing (*virtual*)  
*Ruxandra F. Olimid*
2. A Block Cipher Mode of Operation with Two Keys (*virtual*)  
*Yi-Li Huang, Fang-Yie Leu, Jing-Hao Yang*
3. Modified Efficient & Secure Dynamic ID-based User Authentication Scheme (*virtual*)  
*Toan Thanh Truong, Minh Triet Tran, Anh Duc Duong*
4. Shifting Primes on OpenRISC Processors with Hardware Multiplier  
*Leandro Marin, Antonio J. Jara, and Antonio Skarmeta*



## **THURSDAY, MARCH 28, 2013**

*08:00-17:00 Registration Desk opened*

*09:00-10:30 Plenary Session*

### **ICTEurAsia 7: Software Engineering 1**

**Location: Lecture Hall A**

1. Software Development Methods in the Internet of Things  
*Selo*
2. Analyzing Stability of Algorithmic Systems using Algebraic Constructs  
*Susmit Bagchi*
3. SAT-Based Bounded Strong Satisfiability Checking of Reactive System Specifications  
*Masaya Shimakawa, Shigeki Hagihara, Naoki Yonezaki*

*10:30-11:00 Coffee Break*

*11:00-12:30 Parallel Session*

### **ICTEurAsia 8: Software Engineering 2**

**Location: Lecture Hall A**

1. OSMF: A Framework for OSS Process Measurement  
*Wikan Dinar Sunindyo, Fajar Juang Ekaputra*
2. CAPTCHA Suitable for Smartphones  
*Yusuke Tsuruta, Mayumi Takaya, Akihiro Yamamura*
3. Algorithms of the Combination of Compiler Optimization Options for Automatic Performance Tuning  
*Suprpto Suprpto, Retantyo Wardoyo*

### **AsiaARES 7: Privacy and Trust Management 1**

**Location: Lecture Hall B**

1. A Simplified Privacy Preserving Message Delivery Protocol in VDTNs  
*Youngho Park, Chul Sur, Kyung-Hyune Rhee*
2. Supporting Secure Provenance Update by Keeping "Provenance" of the Provenance  
*Amril Syalim, Takashi Nishide, Kouichi Sakurai*
3. Confidentiality-Preserving Query Execution of Fragmented Outsourced Data (*virtual*)  
*Anis Bkakraia, Frédéric Cuppens, Nora Cuppens-Boulahia, José M. Fernandez*

*12:30-13:30 Lunch Break*

*13:30-15:00 Plenary Session*

**AsiaARES 8: Privacy and Trust Management 2**

**Location: Lecture Hall A**

1. Syntactic Analysis for Monitoring Personal Information Leakage on Social Network Services: A Case Study on Twitter  
*Dongjin Choi, Pankoo Kim*
2. Toward Secure Clustered Multi-Party Computation: A Privacy-Preserving Clustering Protocol  
*Sedigheh Abbasi, Stelvio Cimato, Ernesto Damiani*
3. A Real-time Privacy Amplification Scheme in Quantum Key Distribution  
*Bo Liu, Bo Liu, Baokang Zhao, Dingjie Zou, Chunqing Wu, Ilsun You*

**AsiaARES 9: Network Analysis and Security 2**

**Location: Lecture Hall B**

1. Improved Greedy Forwarding Protocol for VANETs  
*Wen Huaqing and Rhee Kyung-Hyune*
2. Improved Clustering for Intrusion Detection by Principal Component Analysis with Effective Noise Reduction  
*Lu Zhao, Ho-Seok Kang, Sung-Ryul Kim*
3. Emulation on the Internet Prefix Hijacking Attack Impaction (*virtual*)  
*Jinjing Zhao, Yan Wen*
4. Architecture of Network Environment for High-risk Security Experimentation (*virtual*)  
*Xiaohui Kuang, Xiang Li*

*15:00-15:30 Coffee Break*

*15:30-17:00 Plenary Session*

**AsiaARES 10: Network Analysis and Security 1**

**Location: Lecture Hall A**

1. Trustworthy Opportunistic Access to the Internet of Services (*virtual*)  
*Alessandro Armando, Aniello Castiglione, Gabriele Costa, Ugo Fiore, Alessio Merlo, Luca Verderame, Ilsun You*

2. CSP-based General Detection Model of Network Covert Storage Channels (*virtual*)  
*Hui Zhu, Tingting Liu, Guanghui Wei, Beishui Liu, Hui Li,*
3. A Review of Security Attacks on the GSM Standard (*virtual*)  
*Umberto Ferraro Petrillo, Giancarlo De Maio, Giuseppe Cattaneo, Pompeo Faruolo*
4. Unconditionally Secure Fully Connected Key Establishment using Deployment Knowledge (*virtual*)  
*Sarbari Mitra, Sourav Mukhopadhyay, Ratna Dutta*

### **AsiaARES 11: Multimedia Security 1**

**Location: Lecture Hall B**

1. An Extended Multi-Secret Images Sharing Scheme Based on Boolean Operation  
*Huan Wang, MingXing He, Xiao Li*
2. A Data Structure for Efficient Biometric Identification  
*Kensuke Baba, Serina Egawa*
3. Image Watermarking Using Psychovisual Threshold Over the Edge  
*Nur Azman Abu, Ferda Ernawan, Nanna Suryana, Shahrin Sahib*
4. The PCA-Based Long Distance Face Recognition using Multiple Distance Training Images for Intelligent Surveillance System  
*Hae-Min Moon, Sung Bum Pan*

17:30 Social Event 2

**Conference Dinner and Ramayana Ballet Performance at the Prambanan Temple**



**FRIDAY, MARCH 29, 2013**

*09:00-13:30 Social Event 3*

**Tour to the Ancient Temple Borobodur**

