The First International Conference on Trustworthy Systems and Their Applications
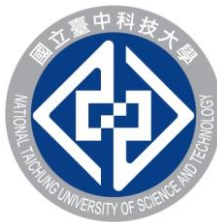
June 9-10, 2014

Taichung, Taiwan

Sponsors

IEEE Reliability Society

National Taichung University of Science and Technology

Hsiuping University of Science and Technology

TSA 2014 Program

Monday June 9, 2014

08:30-09:00	**Registration**
09:00-09:15	**Opening Session** President Tsung-Po Lee, *National Taichung University of Science and Technology, Taiwan* Professor William Cheng Chung Chu, *Tunghai University, Taiwan* **Location: 2607**
09:15-10:15	**Keynote** **Topic:** Authenticatable Visual Secret Sharing **Speaker:** Professor Chin Chen Chang, *Feng Chia University, Taiwan* **Chair:** Professor Jiun-Hung Shie, *National Taichung University of Science and Technology, Taiwan* **Location: 2607**
10:15-10:30	Coffee Break **Location: 2607**
10:30-12:00	**Session 1** **Chair:** Professor Chao-Tung Yang, *Tunghai University, Taiwan* **Location ：2607**
12:00 - 13:00	**Lunch**
13:30-15:00	**Session 2** **Chair:** Professor Hung-Ming Chen, *National Taichung University of Science and Technology, Taiwan* **Location: 2607**
15:00-15:30	Coffee Break **Location ：2607**
15:30- 17:00	**Session 3** **Chair:** Professor Sheikh I. Ahamed *Marquette University, USA* **Location ：2607**
17:30-19:30	**Banquet** **Location : Taichung Mayors House**

08:30-09:00	**Registration**
09:00-11:00	**Session 4** **Chair:** Professor Chih Wei Lu, *Hsiuping University of Science and Technology, Taiwan* **Location ：2607**

The First International Conference on Trustworthy Systems and Their Applications
Monday, June 9, 2014

09:00-09:15 Opening Session

09:15-10:15 Keynote

Chair: Professor Jiun-Hung Shie, National Taichung University of Science and Technology, Taiwan

- *Authenticatable Visual Secret Sharing*
  Professor Chin Chen Chang,
  Feng Chia University, Taiwan

10:15 - 10:30 Morning Break

10:30 - 12:00

Session 1 Chairs: Professor Chao-Tung Yang, Tunghai University, Taiwan

Location: 2607

- *Detecting Mobile Application Malicious Behaviors Based on Data Flow of Source Code*
  Chia-Me Chen[1], Je-Ming Lin[1], and Gu-Hsin Lai[2]
  [1]National Sun Yat-sen University, Taiwan
  [2]Chinese Culture University, Taiwan

- *Mobius CAPTCHA*
  Hassan Hajjdiab, Mohammed Ghazal, and Ashraf Khalil
  Abu Dhabi University, United Arab Emirates

- *A Video Conferencing System based on WebRTC for Seniors*
  Chuan-Yen Chiang[1], Yen-Lin Chen[2], Pei-Shiun Tsai[1], and Shyan-Ming Yuan[1]
  [1]National Chiao Tung University, Taiwan
  [2]National Taipei University of Technology, Taiwan

13:30 - 15:00

Session 2 Chairs: Professor Chine-Che Huang, National Taichung University of Science and Technology, Taiwan

Location: 2607

- *An Approach of Quality of Service Assurance for Enterprise Cloud Computing (QoSAECC)*

William Cheng-Chung Chu[1], Chao-Tung Yang[1], Chih-Wei Lu[2], Chih-Hung Chang[2], Nien-Lin Hsueh[3], Tse-Chuan Hsu[4], and Stephen Hung[1]

[1]Tunghai University, Taiwan

[2]Hsiuping University of Science and Technology, Taiwan

[3]Feng-Chia University, Taiwan

[4]Hsuan Chuang University, Taiwan

- *The Study of Application and Evaluation with NoSQL Databases in Cloud Computing*
  Tse-Chuan Hsu[1], Dong-Meau Chang[2], and Hsin-Jan Lee[2]

  [1]Digilink Corporation, Taiwan

  [2]Hsuan Chuang University, Taiwan

- *A Reference Architecture for High-Availability Automatic Failover between PaaS Cloud Providers*
  Ivor D. Addo[1], Sheikh I. Ahamed[1], and William Cheng-Chung Chu[2]

  [1]Marquette University, USA

  [2]Tunghai University, Taiwan

15:30-16:00 Afternoon Break
15:30 - 17:00

Session 3 Chairs: Professor Sheikh I. Ahamed, Marquette University, USA

Location: 2607

- *Security Management of Authentication System Based on Dynamic Biometric Features*
  Yao-Hong Tsai, Hsiao-Ping Huang, and Hui Rong Wu

  Hsuan Chung University, Taiwan

- *Unified Security and Safety Risk Assessment - A Case Study on Nuclear Power Plant*
  Yean-Ru Chen[1], Sao-Jie Chen[1], Pao-Ann Hsiung[2], and I-Hsin Chou[3]

  [1]National Taiwan University, Taiwan

  [2]National Chung Cheng University, Taiwan

  [3]Institute of Nuclear Energy Research, Taiwan

- *Reversible Data Hiding Method Based on Exclusive-OR with Two Host Images*
  Chyuan-Huei Thomas Yang[1], Yen Ting Hsu[1], Chien-Cheng Wu[2], and Jun-Wei Chang[2]

  [1]Hsuan Chuang University, Taiwan

  [2]Hsuan Chuang University, Taiwan

Tuesday, June 10, 2014
09:00 - 11:00

Session 4 Chairs: Professor Chih Wei Lu, Hsiuping University of Science and Technology, Taiwan

Location: 2607

- *Improving Software Maintenance for Pattern-Based Software Development: A Comment Refactoring*

Approach
Jhe-Jyun Guo[1], Nien-Lin Hsueh[1], Wen-Tin Lee[2], and Shi-Chuen Hwang[1]
[1]Feng-Chia University, Taiwan
[2]National Kaohsiung Normal University, Taiwan

- *A Framework for Questionnaire-based Healthcare Application Development*
Geng-Hao Wu[1], Nien-lin Hsueh[1], and Chih-Hung Chang[2]
[1]Feng-Chia University, Taiwan
[2]Hsiuping University of Science and Technology, Taiwan

- *Software Safety Standards: Evolution and Lessons Learned*
Shou-Yu Lee, W. Eric Wong, and Ruizhi Gao
University of Texas at Dallas, USA

- *Integrated Modeling and Analysis of Attribute based Access Control Policies and Workflows in Healthcare*
Sandeep Lakkaraju[1] and Dianxiang Xu[2]
[1]Dakota State University, USA
[2]Boise State University, USA

- *An Interactive Software Used in Conferences or Classes Based on the Service Oriented Architecture and Use of Mobile Internet*
Wang Liang and Yao Li
Southeast University, China