

## **Workshop on Computer Networks and Web Service/Technologies Workshop on Parallel, Peer-to-Peer, Distributed, and Cloud Computing**

**Date:** Wednesday, 12 Dec. 2012

**Room:** 3F 308.309

**Session: Opening and Keynote (1:00~1:45 pm)**

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Chair: **Prof. Der-Jiunn Deng**, National Changhua University of Education

Speaker: **Prof. Chunming Rong**

Title: **Cloud Security and Service Accountability**

Abstract: Cloud Computing makes data truly mobile and a user can simply access a chosen cloud with any internet accessible device. In Cloud Computing, IT-related capabilities are provided as services, accessible without requiring detailed knowledge of the underlying technology. Thus, many mature technologies are used as components in Cloud Computing, but still there are many unresolved and open problems. Security in the cloud domain is considered as one of the top challenges. Cloud and IT service providers should be responsible for the data of their customers and users. However, accountability frameworks for distributed IT services is current still absent and makes it difficult for users to understand, influence and determine how their service providers honor their obligations. In the proposed EU A4Cloud project, we will create solutions to support users in deciding and tracking how their data is used by cloud service providers. By combining methods of risk analysis, policy enforcement, monitoring and compliance auditing with tailored IT mechanisms for security, assurance and redress.

**Session: Cloud Computing and Overlay Network (1:45~2:30 pm)**

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Chair: **Prof. Ming-Huang Guo**, Shih-Hsin University

1013 Dynamic Load Balancing in Cloud-based Multimedia System Using Genetic Algorithm

*Chun-Cheng Lin and Der-Jiunn Deng*

1075 Platform-as-a-Service Architecture for Parallel Video Analysis in Clouds

*Tse-Shih Chen, Tsiao-Wen Huang, Liang-Chun Yin, Yi-Ling Chen, and Yi-Fu Ciou*

1098 Construct Independent Spanning Trees on Chordal Rings with Multiple Chords

*Shyue-Ming Tang*

**Session: Computer Networks and Web Service/Technologies (2:45~4:15 pm)**

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Chair: **Prof. Yeong-Sheng Chen**, National Taipei University of Education

- 1058 Cross-Layer-based Adaptive TCP Algorithm in 4G Packet Service  
LTE-Advanced Relaying Communications  
*Ben-Jye Chang and Yi-Hsuan Li*
- 1065 A System of Publishing and Managing Contents in Multiple Web2.0  
Websites  
*Jyun-Kai Huang, Shyan-Ming Yuan, Hung-Yu Chen, and  
Yuan Chang*
- 1085 An Info-based Content Sharing System for Small Communities  
*Yuan-Liang Tai, Shang-Rong Tsai, Cheng-Kang Wen, Kuo-Feng Ssu,  
and Y. S. Huang*
- 1108 Hierarchical Deficit Round-Robin Packet Scheduling Algorithm  
*Min-Xiou Chen and Shih-Hao Liu*
- 1184 IP Address Exchanging Scheme for Vehicle Ad hoc Networks  
*Chiu-Ching Tuan and Yi-Chao Wu*
- 1187 A Web Service Selection Mechanism based on User Ratings and  
Collaborative Filtering  
*Chin-Chih Chang and Chu-Yen Kuo*

**Session: Parallel, Peer-to-peer, and Distributed Computing (4:30~6:00 pm)**

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Chair: **Prof. Chun-Cheng Lin**, National Chiao Tung University

- 1003 Correctness of Self-stabilizing Algorithms under the Dolev Model When  
Adapted to Composite Atomicity Models  
*Chih-Yuan Chen, Cheng-Pin Wang, Tetz C. Huang, and Ji-Cherng Lin*
- 1034 Efficiently Extracting Change Data from Column Oriented NoSQL  
Database  
*Yong Hu and Weiping Qu*
- 1083 Energy-Efficient Scheduling Based on Reducing Resource Contention for  
Multi-Core Processors  
*Yan-Wei Chen, Mei-Ling Chiang, and Chieh-Jui Yang*
- 1091 Efficient Parallel Knuth-Morris-Pratt Algorithm for Multi-GPUs with  
CUDA  
*Kuan-Ju Lin, Yi-Hsuan Huang, and Chun-Yuan Lin*
- 1167 Approaches for Data Synchronization on Mobile Peer-to-Peer Networks  
*Chuan-Chi Lai and Chuan-Ming Liu*
- 1168 Effective Processor Allocation for Moldable Jobs with Application Speedup  
Model  
*Kuo-Chan Huang, Tse-Chi Huang, Yuan-Hsin Tung, and Pin-Zei Shih*