

第二十二屆高性能計算及嵌入式編譯技術與系統軟體研討會議程表

5 月 26 日 (星期四)	
Time	Agenda
8:30-9:00	報到
9:00-9:10	大會開幕 Prof. Jyh-Cheng Chen (陳志成教授) Discipline Coordinator of Computer Science, Ministry of Science and Technology
9:10-10:40	Keynote Speech: 當前 HPC 系統軟體生態系統面臨的嚴重挑戰 (Chair: Prof. Wu Yang) Speaker: Prof. Guang R. Gao (高光榮教授) Department of Electrical and Computer Engineering, University of Delaware
10:40-11:00	茶敘
11:00-12:00	Session I : Cloud Computing (Chair: Prof. Chao-Tung Yang) An OpenCL framework for partial workload offloading in a mobile cloud computing environment Olivier Valery, Ju-Cheng Chou, Yulin Tsao, Pangfeng Li, Jan-Jan Wu Apply data compression to achieve faster and cheaper cloud backend file system Hsin-Yin Chang, Jerry Chou Operating System Mechanisms for Supporting 3D MMOGs in a Server Clustere Mei-Ling Chiang, Ching-Chung Tseng, Yen-Chu Chang, Shu-Chun Chao, Han Wang, Tsung-Te Hou Implementation of the Supporting Uniform Data Distribution with Software-Defined Storage Service on Heterogeneous Cloud Storage Wei-Hsun Cheng, Chao-Tung Yang, Shuo-Tsung Chen, Jheng-Yue Li
12:00-13:50	午餐
13:50-15:10	Session II : HSA / Virtualization (Chair: Prof. Che-Rung Lee) Performance Issues in Sharing Irregular Data on Heterogeneous System Architecture (HSA) Platform Chih-Chen Kao, Yu-Ping Liu, Wei Chung Hsu Building KVM-based Hypervisor for Heterogeneous System Architecure Yu-Ju Huang, Hsuan-Heng Wu, Yeh-Ching Chung, Wei-Chung Hsu A Full System Emulation for HSA Platform Hao-Jhe Hsu, Chung-Ta King, Shih-Hao Hung, Wei-Chung Hsu, Yeh-Ching Chung On the Implementation of Module Namespace in Linux Quey-Liang Kao, Che-Rung Lee CPU Utilization Analytics of Docker and KVM Hypervisor on OpenStack Tsung-Yueh Wan, Chao-Tung Yang, Shuo-Tsung Chen, Chun-I Chiang
15:10-15:30	茶敘
15:30-16:15	Session III : Binary Translation / Test and Fault Tolerance (Chair: Peng-Sheng Chen) Enhance the SIMD Translation of HQEMU Sheng-Yu Fu, Ding-Yong Hong, Jan-Jan Wu, Pangfeng Liu, Wei Chung Hsu Translating x86 native libraries for the NaCl platform Jhih-Sheng Luo, Wu Yang Constraint-Based Test Case Generation for White-Box Method-Level Unit Testing Cheng-Hung Chang, Nai-Wei Lin
16:20-17:10	Industry Session: Andes Custom Extension for Programmable Acceleration (Chair: Prof. Wu Yang) Speakers: 楊曜彰博士、吳奕緯博士 (晶心科技)
18:00-20:00	晚宴

第二十二屆高性能計算及嵌入式編譯技術與系統軟體研討會議程表

5 月 27 日 (星期五)	
Time	Agenda
8:30-9:10	報到
9:10-10:40	Invited Speech I: Khronos Computing and Graphics APIs in Smart Devices (Chair: Prof. Jenq-Kuen Lee) Speaker: Dr. Bor-Sung Liang (梁伯嵩博士) Deputy Technical Director, MediaTek Inc.
10:40-11:00	茶敘
11:00-12:00	Invited Speech II: Data Race Detection for Embedded Software (Chair: Prof. Yuan-Shin Hwang) Speaker: Prof. Yann-Hang Lee (李雁航教授) School of Computing, Informatics, and Decision Systems Engineering Arizona State University
12:00-13:50	午餐
13:50-15:10	Session IV : Storage Management / Database (Chair: Prof. Pei-Hsuan Tsai) A Load-Supervising Data Caching Scheme for in Multi-tiered Storage Systems Yi-Hao Shih, Jhih-Cheng Luo, Chen-Yuan Hsieh, Hsung-Pin Chang, Da-Wei Chang Enhancing Performance of Read-Dominated Applications on Multilevel-Cell NAND Flash Wei-Cheng Lin, Zhou-Li Chen, Da-Wei Chang A Two-mode GC for Decreasing Response Time Jitter in NAND Flash Pei-Hsuan Tsai, Li-Min Chou Optimization of Distributed Database for Telecommunication Billing System Chang-Syun Peng, Li-Yung Ho, Jan-Jan Wu, Pangfeng Liu, Chia-Chun Shih, Chi-Chang Huang, Chao-Wen Huang An optimal two way migration between MySQL and Neo4j Shalini Sharma, Shih-Chang Chen, Yeh-Ching Chung, Jerry Chou
15:10-15:30	茶敘
15:30-16:50	Session V : Heterogeneous Computing (Chair: Dr. Trent Lo) Optimization of OpenVX framework for mobile embedded systems Tzu Hsiang Lin, Jenq-Kuen Lee Translation of Annotated High-Level Language for Parallel Execution on Heterogeneous Multiprocessor Platforms Hao-Wei Peng, Wei-Ren Lin, Jean Jyh-Jiun Shann Performance Evaluation of 9-Point Stencil Operations over a Two-Dimension Array on Intel Xeon Phi Chan-Fu Kuo, Chao-Tung Yang Novel Parallel Collision Detection on GPU for 5-axis Machining Rong-Guey Chang, Jen-Chieh Chang, Rong-Shine Lin Capability-Aware Workload Partition on Multi-GPU Systems Yen-Ting Chao, Yi-Ping You

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