International Workshop on Advanced Computing and Applications (ACOMP 2007)

March 14 - 16, 2007
Ho Chi Minh City University of Technology
B4 Building, 268 Ly Thuong Kiet Street, District 10, Ho Chi Minh City

Wednesday, March 14, 2007			
8:00 – 9:00	Registration		
9:00 – 9:30	Opening Speech Venue: B4 Conference Hall		
9:30 – 10:30	Chair: Yakup Paker Keynote Talk **Peter W. Arzberger** *Building International E-Communities in Cyberinfrastructure, Research, and Education* Venue: B4 Conference Hall		
10:30 – 10:45	Coffee Break		
10:45 – 11:45	Chair: Yakup Paker Keynote Talk **Gerhard Reinelt** *Applications of Combinatorial Optimization in Biology* Venue: B4 Conference Hall		
11:45 – 14:00	Lunch Phuong Vy Restaurant, Saigon Village, 17 To Hien Thanh Street, District 10		
14:00 – 15:00	Chair: Cindy Zheng Keynote Talk **Simon See** *An Efficient High Performance PetaScale Systems for Scientific and Engineering Computation* Venue: B4 Conference Hall		
15:00 – 15:15	Coffee Break		
15:15 – 17:05	**Session 1.1**	**Session 1.2**	**Session 1.3**

	Venue: B4 room 301 Chair: Mason J. Katz	Venue: B4 room 302 Chair: Gerhard Reinelt	Venue: B4 room 303 Chair: Thomas Ludwig
15:15 – 15:45	Cuong Pham-Quoc, Thien-Nga Nguyen-Vu, Anh Pham-Hoang, Anh-Vu Dinh-Duc *Placement and Routing Algorithms for Asynchronous Logic Circuits*	Thang Tran-Ngoc, Chang-Yeol Joh *An Efficient Global Optimization Approach for Transonic Airfoil Design Using Network-Distributed Computation*	Cindy Zheng *PRAGMA Grid - Testbed for Collaborations*
15:45 – 16:15	Thanh Huong Dam Thi, Van Hieu Bui, Anh-Vu Dinh-Duc *Automatic Technology Mapping for Quasi Delay-Insensitive (QDI) Asynchronous Circuits*	Sung-Ki Jung, Sang-Eon Je , Min-Ju Park, Rho-Shin Myong , Tae-Hwan Cho *An Analysis of the Characteristics of Asymmetric Vortices and Slide Forces on Slender Bodies at High Angle of Attack Using a Navier-Stockes Code*	Tuan Anh Nguyen, Nguyen Cao Dat, Nguyen Quang Hung, Tran Ngoc Minh, Nam Thoai, Dang Tuan Nghia, Nguyen Thanh Son *EDAGrid@HCMUT: A Campus Grid Infrastructure for Service-Centric Grid Applications*
16: 15 – 16:45	Van Hoai Tran *Solving Large Scale Set Partitioning Problem to Optimality in Parallel*	Huynh Nguyen Khang Le *Natural Convection Heat Transfer Between Two Concentric Spheres*	Nam Thoai, Dang Khoa Tran, Khac Tiep Mai, Thi Thuy Truong *Supernode II: A Grid Node in EDAGrid*
16:45 – 17:05	Huynh Ngoc Lam, Phan Khanh Phuong, Anh-Vu Dinh-Duc, Anh Pham Hoang *Behavior-Level Simulation of Asynchronous Circuits*	Duy Hung Phan, Eric Castelli, Ngoc Yen Pham Thi *Investigation the Largest Lyapunov Exponent on the Signal Heart Rate Variability and the Apnea*	Hai Ly-Hoang, Hieu Duong Ngoc, Tran Khanh Dang, Duc-Cuong Nguyen, Van Hoai Tran, Nam Thoai *Proposal of a Software Architecture for Data Mining in Grid Environment*

Thursday, March 15, 2007	
8:30 – 9:00	Registration
9:00 – 10:00	Chair: Pierre Kuonen Keynote Talk **David Abramson** ***Robust Science and Engineering Using Parametric Computing on the Computational Grid*** Venue: B4 Conference Hall
10:00 – 11:00	Chair: Pierre Kuonen Keynote Talk

	Cong-Duc Pham *Communication Networks in the Next Decade* B4 Conference Hall		
11:00 – 11:15	Coffee Break		
11:15 – 12:15	**Session 2.1** Venue: B4 room 401 Chair: Minh Le	**Session 2.2** Venue: B4 room 402 Chair: Nguyen Duc Cuong	**Session 2.3** Venue: B4 room 403 Chair: Anh-Vu Dinh-Duc
11:15 – 11:35	Viet Ha Bui, Manh Ha Le, Ha Duong Phan, Van Doanh Phung *Infinite Tree Structure and Integer Partitions*	Nguyen Minh Luan, Tran Quoc Trung, Duong Tuan Anh *Enhancing Examination Timetables with Advanced Tabu Search*	Thanh Tu Nguyen Thi, Jong Soo Lee *Enhancing IPTV System for Multimedia Services in 3G Mobile Devices*
11:35 – 11:55	Phan Thi Ha Duong, Tran Thi Thu Huong *The Structure of Stable Sand Piles Model*	Duong Tuan Anh, Vo Hoang Tam, Nguyen Quoc Viet Hung *Combined Interactive and Automatic Course Timetabling*	Chau Trung Huynh, Tuan Anh Nguyen *A Framework for Semantic Service Oriented Architecture*
11:55 – 12:15	Le Van Quoc Anh, Pham Van Chung, Duong Tuan Anh *Implementation of Valid-time Indeterminacy in Temporal Clinical Databases*	Maikel León Espinosa, Natalia Martinez Sánchez *Conceptual Maps and Reasoning Based on Cases: A Perspective for the Intelligent Teaching/Learning Systems*	Jürgen Rückert, Dinh-Khoa Nguyen , Barbara Paech *An Adaptive Dialog Core for User Interfaces*
12:15 – 12:45		Thanh Binh Nguyen, Anh Duong Hoang Thi *Ontology Driven Approach for Data Integration in Data Warehousing Systems*	
12:15 – 14:00	Lunch Phuong Vy Restaurant, Saigon Village, 17 To Hien Thanh Street, District 10		
13:30 – 19:00	Tours		

Friday, March 16, 2007	
8:00 – 8:30	Registration
8:30 – 9:30	Chair: Peter W. Arzberger

	Keynote Talk **Satoshi Sekiguchi** *Grid Data Center for Utility Computing in Marketplace* Venue: B4 Conference Hall
9:30 – 10:30	Chair: Peter W. Arzberger Keynote Talk **Dieter Kranzlmueller** *Interactive Grids – The GVid/GVK Approach for Scientific Visualization* Venue: B4 Conference Hall
10:30 – 10:45	Coffee Break

10:45 – 12:45	**Session 3.1** Venue: B4 room 401 Chair: Duong Tuan Anh	**Session 3.2** Venue: B4 room 402 Chair: Jae-Woo Lee	**Session 3.3** Venue: B4 room 403 Chair: Simon See
10:45 – 11:15	Josef Kueng, Reinhard Stumptner *Using a Semantic Network for Structural Health Monitoring*	Mason J. Katz *Deploying and Managing Grid Infrastructure with Rocks*	Yoshio Tanaka *Introduction of the International Grid Trust Federation*
11:15 – 11:45	Van Doan Nguyen, Tran Khanh Dang, Nguyen Thanh Son *A Novel Approach to Digital Watermarking for Vietnamese Documents*	Francois Scharffe *Maintaining a Unified View Over Structured Data*	Tuan Anh Nguyen *Solving Time Constrained Problems in the Grid*
11:45 – 12:15	Nguyen Van Vinh, Heesung Jun *AR-based Annotation System for Personalized Messaging Assistance*	Tran Ngoc Minh, Nguyen Tuan Anh, Do Quoc Tuan, Bui Dung Anh Tuan *Resource Reservation Service On Portable Batch System*	Tran Khanh Dang, Thi Thanh Huyen Phan, Hoang Tam Vo *A Comprehensive Framework for Grid Data Management*

12:45 – 14:00	Lunch Phuong Vy Restaurant, Saigon Village, 17 To Hien Thanh Street, District 10
14:00 – 15:00	Chair: David Abramson Keynote Talk **Thomas Ludwig** *Performance Visualization of MPI-IO Operations in Parallel Programs* Venue: B4 Conference Hall

15:00 – 15:15	Coffee Break			
15:15 – 16:15	**Session 4.1** Venue: B4 room 401 Chair: Cong-Duc Pham	**Session 4.2** Venue: B4 room 402 Chair: Tran Van Hoai	**Session 4.3** Venue: B4 room 403 Chair: Josef Kueng	**Tutorial** Venue: A5 Computer room Chair: Tran Khanh Dang
15:15 – 15:45	Seungjin Lee, YuXuan Jin, Jae-Woo Lee *Development of Integrated Missile System Design Framework Using Distributed Computing Environment*	Hong-Phuoc Vo-Luong, Stanislaw Massel *Modelling of the Interaction of Mangroves with Waves*	Doan H. Nguyen *Vietnamese-English Cross-Language Information Retrieval (CLIR) Using Bilingual Dictionary*	15:15 – 17:15 Tuan Anh Nguyen *Developing Applications on EDAGrid*
15:45 – 16:15	Benlian Xu, Qinglan Chen, Huigang Xu, Zhiquan Wang *A Self-Adjusting Multiple Models Algorithm for Bearings-Only Tracking*	Ngoc Chi Nguyen, Hong Thai Nguyen, Minh Tri Pham *Evolved Fault Tolerance, Shortest Path Routing in Hyper-De Bruijn-Aster Network*	Do Van Tuan, Anastasiya Yun, Jong-Soo Lee, Ui-Pil Chong *New Approach of Texture Classification and Retrieval using Scale Invariant Feature Transform*	
From 19:00	**Banquet** Grand Hotel, 8 Dong Khoi Street, District 1			

Saturday, March 17, 2007	
8:00 – 21:00	Vinh Long Tour