

June 12, 2007

Tuesday

3:00 PM - 5:00 PM***PADS Tutorial -- Terrace 1*****Parallel and Distributed Simulation: Traditional Techniques and Recent Advances**

- Kalyan S. Perumalla

5:00 PM - 7:00 PM***PADS Welcome Reception -- Tiki Pavillion***

June 13, 2007

Wednesday

8:00 AM - 8:45 AM***Breakfast*****8:45 AM - 9:00 AM*****PADS'07 Opening Remarks -- Sunset***

- Kalyan S. Perumalla, George F. Riley

9:00 AM - 10:00 AM***PADS Keynote -- Sunset*****A Look at the Future of Networked and Mobile Entertainment**

- Michael Zyda

10:00 AM - 10:20 AM***Coffee Break*****10:20 AM - 11:20 AM*****Session I: Federated Applications -- Sunset****Session Chair: Stephen Turner***Smallpox over San Diego: Joint Real-Time Federations of Distributed Simulations and Simulation Users**

- John M. Linebarger, Michael E. Goldsby, Daniel Fellig, Marilyn F. Hawley, Patrick C. Moore, Timothy J. Sa

Ad Hoc Distributed Simulations

- Richard Fujimoto, Michael Hunter, Jason Sirichoke, Mahesh Palekar, Hoe Kyoung Kim, Wonho Suh

11:30 AM - 12:30 PM***FCRC Plenary Session -- Grand Exhibit Hall*****The Art of Reduction**

- Avi Wigderson

12:30 PM - 1:35 PM***Lunch*****1:35 PM - 1:40 PM*****ASYM'07 Opening Remarks -- Sunset***

- Kalyan S. Perumalla

1:40 PM - 3:40 PM***Session II: Asynchronous Methods I -- Sunset****Session Chair: Yuri Omelchenko***A Second Order Accurate Adams-Bashforth Type Discrete Event Integration Scheme**

- James J. Nutaro

Comparing Synchronous and Asynchronous Variable Step Size Explicit ODE Solvers: A Simulation Study

- Fernando Barros

Stability of Asynchronous Variational Integrators

- William Fong, Eric Darve, Adrian Lew

A Generic Pattern for Modifying Traditional PDE Solvers to Exploit Heterogeneity in Asynchronous Behavior

- Rajanikanth Jammalamadaka, Bernard Zeigler

June 13, 2007 Continued
Wednesday

3:40 PM - 4:00 PM

Coffee Break

4:00 PM - 5:30 PM

Session III: Data Distribution and HLA -- Sunset

Session Chair: Katherine L. Morse

Adaptive Support for Range Queries via Push-Pull Algorithms

- Rob Minson, Georgios Theodoropoulos

The Multi-Agent Data Collection in HLA-based Simulation System

- Heng-Jie Song, Chun-Yan Miao, Zhi-Qi Shen, Ah-Hwee Tan, GuoPeng Zhao

An Efficient Sort-based DDM Matching Algorithm for HLA Applications with a Large Spatial Environment

- Ke Pan, Stephen John Turner, Wentong Cai, Zengxiang Li

5:30 PM - 6:00 PM

PADS Business Meeting -- Sunset

June 14, 2007
Thursday

8:00 AM - 9:00 AM

Breakfast

9:00 AM - 10:00 AM

Session IV: Asynchronous Methods II -- Sunset

Session Chair: James Nutaro

Asynchronous Event-Driven Particle Algorithms

- Aleksandar Donev

Formal Validation of Asynchronous Interaction-Agents Algorithms for Reaction-Diffusion Problems

- Pascal Redou, Sebastien Kerdelo, Gireg Desmeulles, Jean-Francois Abgrall, Jacques Tisseau, Vincent Rodin

10:00 AM - 10:20 AM

Coffee Break

10:20 AM - 11:20 AM

Session V: Social Sciences Simulation -- Sunset

Session Chair: Hassan Rajaei

Macro-Micro Economic System Simulation

- Stephan Onggo, Kanya Kusano, Tetsuya Sato

Explanation Exploration: Exploring Emergent Behavior

- Ross Gore, Paul Reynolds, Lingjia Tang, David Brogan

11:30 AM - 12:30 PM

FCRC Plenary Session -- Grand Exhibit Hall

Designing by Accident

- Guy Steele

12:30 PM - 1:40 PM

Lunch

1:40 PM - 3:40 PM

Session VI: Network Simulation -- Sunset

Session Chair: Richard Fujimoto

Modeling and Simulations of TCP MANET Worms

- Mohamed Abdelhafez, George Riley, Robert Cole, Nam Phamdo

GPU-accelerated Evaluation Platform for High Fidelity Network Modeling

- Zhiguo Xu, Rajive Bagrodia

Parallel Simulation of Hybrid Network Traffic Models

- Jason Liu

An Abstract Internet Topology Model for Simulating Peer-to-Peer Content Distribution

June 14, 2007 Continued

Thursday

- Ryan LaFortune, Christopher Carothers, William Smith, Michael Hartman

3:40 PM - 4:00 PM**Coffee Break****4:00 PM - 5:30 PM****Session VII: Optimistic Parallel Simulation -- Sunset**

Session Chair: Jason Liu

Local Time Warp: An Implementation and Performance Analysis

- Hassan Rajaei

An Approach for Incorporating Rollback through Perfectly Reversible Computation in a Stream Simulator

- David Bauer, Ernest Page

Using Reversible Computation Techniques in a Parallel Simulation of a Multi-Processor Computing System

- Andriy Naborsky, Richard Fujimoto

7:00 PM - 9:00 PM**PADS Banquet -- El Agave Restaurant**

Best Paper Award Ceremony

2304 San Diego Ave

(619) 220-0692

June 15, 2007

Friday

8:00 AM - 9:00 AM**Breakfast****9:00 AM - 10:00 AM****Session VIII: Computer System Simulations -- Sunset**

Session Chair: Carl Tropper

SimBA: A Discrete Event Simulator for Performance Prediction of Volunteer Computing Projects

- Michela Taufer, Andre Kerstens, Trilce Estrada, David Flores, Patricia Teller

A Federated Simulation Environment for Hybrid Systems

- Saurabh Gayen, Eric Tyson, Mark Franklin, Roger Chamberlain

10:00 AM - 10:20 AM**Coffee Break****10:20 AM - 11:20 AM****Session IX: Load Balancing -- Sunset**

Session Chair: David Bauer

A Design-Driven Partitioning Algorithm for Distributed Verilog Simulation

- Lijun Li, Carl Tropper

A Flexible Dynamic Partitioning Algorithm for Optimistic Distributed Simulation

- Patrick Peschlow, Tobias Honecker, Peter Martini

11:30 AM - 12:30 PM**FCRC Plenary Session -- Grand Exhibit Hall****Computer Science: Past, Present & Future**

- Edward Lazowska

12:30 PM - 12:30 PM**Adjourn**