

# PMEO-UCNS'2009

Workshop Co-Chairs: G. Min (University of Bradford, UK)

M. Ould-Khaoua (Sultan Qaboos University, Oman)

## Advance Program

Program Co-Chairs: A. Y. Al-Dubai (Edinburgh Napier University, UK)

X. Jin (University of Bradford, UK)

Friday, May 29th, 2009

8:15~8:30 **Welcome and Workshop Introduction**

8:30~9:30 **Keynote Speech**

Energy-Aware Scheduling and Resource Allocation for Large-Scale Distributed Systems

**Professor Albert Y. Zomaya** (*Chair Professor of High Performance Computing and Networking, University of Sydney*)

9:30-10:30 **Session 1**

Performance Evaluation of Gang Scheduling in a Two-Cluster System with Migrations

Z. Papazachos and H. Karatza (*Aristotle University of Thessaloniki, Greece*)

A Novel Information Model for Efficient Routing Protocols in Delay Tolerant Networks

X. Chen, J. Shen and J. Wu (*Texas State University & Florida Atlantic University, USA*)

Accurate Analytical Performance Models of Communications in MPI Applications

D. R. Martínez, J. C. Cabaleiro, T. F. Pena, F. F. Rivera and V. Blanco (*University of Santiago de Compostela & La Laguna University, Spain*)

10:45-12:30 **Session 2**

A Performance Model of Multicast Communication in Wormhole-Routed Networks on-Chip

M. Moadeli and W. Vanderbauwhede (*University of Glasgow, UK*)

Dynamic Adaptive Redundancy for Quality-of-Service Control in Wireless Sensor Networks

Ing-Ray Chen, A. Ngoc Speer and M. Eltoweissy (*Virginia Tech, USA*)

A Distributed File system Framework for Transparent Accessing Heterogeneous Storage Services

Y. Lu, H. Mao and J. Shen (*National University of Defence and Technology, China*)

Reduction of Quality (RoQ) Attacks on Structured Peer-to-Peer Networks

Y. He, Q. Cao, Y. Han, L. Wu and T. Liu (*Wuhan University, China*)

The Effect of Heavy-Tailed Distribution on the Performance of Non-Contiguous Allocation Strategies in 2D Mesh Connected Multicomputers

S. Bani Mohammad (*Al al-Bayt University, Jordan*)

1:30-3:10 **Session 3**

Energy Efficient and Seamless Data Collection with Mobile Sinks in Massive Sensor Networks

T. Park, D. Kim, S. Jang, S. Yoo and Y. Lee (*Information and Communications University, Daejeon, South Korea*)

Priority-based QoS MAC Protocol for Wireless Sensor Networks

H. Kim and Sung-Gi Min (*Korea University, South Korea*)

Experimental Evaluation of a WSN Platform Power Consumption

Ch. Antonopoulos, T. Stoyanova, A. Prayati, C. Koulamas and G. Papadopoulos (*University of Patras, Industrial Systems Institute, Greece*)

Analysis of Data Scheduling Algorithms in Supporting Real-time Multi-item Requests in On-demand Broadcast Environments

J. Chen and V. C. S. Lee (*Wuhan University, City University of Hong Kong, China*)

Performance Evaluation of a Novel MAC Layer Handoff Scheme for WiFi-Based Wireless Networks

A. Boukerche and Z. Zhang (*University of Ottawa, Canada*)

3:30~ 5:10 **Session 4 (Chair: Helen D. Karatza, Aristotle University of Thessaloniki, Greece)**

Network Processing Performability Evaluation on Heterogeneous Reliability Multi-core Processors using SRN Model

P. D. Ungsunan, C. Lin, Yi Gai and Yang Wang (*Tsinghua University, China & University of Southern California, USA*)

A Statistical Study on the Impact of Wireless Signals' Behavior on Location Estimation Accuracy in 802.11 Fingerprinting Systems

R. Farivar, D. Wiczer, A. Gutierrez and R. H. Campbell (*University of Illinois at Urbana Champaign, USA*)

Predicting the Performance of Workflows in the Context of Role-based Access Control

L. He and S. A. Jarvis (*University of Warwick, UK*)

GLBM: A New QoS Aware Multicast Scheme for Wireless Mesh Network

L. Zhao, A. Y. Al-Dubai and G. Min (*Edinburgh Napier University, Bradford University, UK*)

Performance Evaluation of a Resource Discovery Scheme in a Grid Environment Prone to Resource Failures

K. Karaoglanoglou and H. Karatza (*Aristotle University of Thessaloniki, Greece*)

5:30~ 6:50 **Session 5**

Routing, Data Gathering, and Neighbor Discovery in Delay-Tolerant Wireless Sensor Networks

Nayebi, H. Sarbazi-Azad and A. Karlsson (*Sharif University of Technology and IPM, Iran & KTH, Sweden*)

Ultra-Smart Counter Based Broadcast Using Neighbourhood Information in MANETS

M. Bani Yassein, Ahmed Y. Al-Dubai, M. Ould-Khaoua and O. M. Al-jarrah (*Jordan University of Science and Technology, Edinburgh Napier University, Jordan, UK, Sultan Qaboos University, Oman*)

Performance Evaluation of Hybrid Adaptive Service Discovery Protocols for Next Generation Vehicular Networks (NVNs)

A. Boukerche and K. Abrougui (*University of Ottawa, Canada*)

Throughput-Fairness Tradeoff in Best Effort Flow Control for On-Chip Architectures

F. Jafari, M. S. Talebi and A. Khonsari (*IPM, University of Mashhad, University of Tehran, Iran*)

***Please note that all presentations are scheduled for 20 minutes, including presentation and discussion***