Thursday August 23rd, 2012

7:30 – 8:00   Serrano Foyer   Registration and Breakfast

8:00- 8:15   Serrano B/C   Opening Remarks

Thursday Morning Sessions

8:15 -9:45   Serrano B/C   Overlay Networks/Peer-to-Peer Systems   Session Chair: TBD

Greening the Internet: Energy-optimal File Distribution
Kshitiz Verma, Gianluca Rizzo, Antonio Fernandez Anta, Ruben Cuevas Rumin and Arturo Azcorra,

WebCloud: Recruiting social network users to assist in content distribution
Fangfei Zhou, Liang Zhang, Eric Franco, Alan Mislove, Richard Revis and Ravi Sundaram

Dynamic Semantic Data Replication for K-Random Search in Peer-to-Peer Networks
Xiaoqi Cao and Matthias Klusch

9:45 -10:00   Serrano Foyer   Break

10:00 -10:30   Serrano B/C   Best Student Paper

10:30-10:45    Serrano Foyer   Break

10:45-11:45   Serrano B/C   Theoretical Aspects of Network Computing   Session Chair: TBD

Information Divergence Estimation over Data Streams
Emmanuelle Anceaume and Yann Busnel

A Distributed Merge-and-Split Mechanism for Dynamic Virtual Organization Formation in Grid
Lena Mashayekhy and Daniel Grosu
12:00 -13:30    Lunch

Thursday Afternoon Sessions

13:30 -15:30  Serrano B/C    Dependable Network Computing    Session Chair: TBD

  Chasing the Weakest Failure Detector for k-Set Agreement in Message-passing Systems
  Achour Mostéfaoui, Michel Raynal and Julien Stainer

  Towards Byzantine Resilient Directories
  Ali Shoker and Jean-Paul Bahsoun

  A technique for self-optimizing scalable and dependable server clusters under QoS constraints
  Ramón Medrano Llamas, Daniel F. García and Joaquín Entrialgo

15:00 -15:10    Break

  Application of Regenerating Codes for Fault Tolerance in Distributed Storage Systems
  Kathrin Peter and Peter Sobe

15:30 -16:30  Serrano B/C    Performance Modeling/Quality of Services (QoS) Issues Part 1
  Session Chair: TBD

  Internet Distance Prediction Using Node-Pair Geography
  Ankur Jain and Joseph Pasquale

  Modelling Web-server Flash Events
  Sajal Bhatia, George Mohay, Desmond Schmidt and Alan Tickle

16:30 -16:45  Serrano Foyer    Break

16:45 -17:45  Serrano B/C    Computation Intensive Applications and Programming Environments    Session Chair: TBD

  A Pipelining Approach to Informed Prefetching in Distributed Multi-Level Storage Systems
  Maen Al Assaf, Xiao Qin, Xunfei Jiang, Ji Zhang and Mohammed Alghamdi

  Two-Dimensional Dynamic Loop Scheduling Schemes for Computer Clusters
  Anthony Chronopoulos, Satish Penmatsa, Naveen Jayakumar and Eric Ogharandukun
Friday August 24th, 2012

8:00 – 8:30    Serrano Foyer    Registration and Breakfast

8:30 – 9:00    Serrano B/C    Best Paper - TBA

9:00-9:15      Serrano Foyer  Break

9:15-10:45     Serrano B/C               Routing Mechanisms    Session Chair: TBD

  Energy Efficient Routing based on Connected Dominating Sets
  Yacoub massad, Jesus villadangos and Vicent cholvi

  Delay-Aware Query Routing Tree for Wireless Sensor Networks
  Shaila Pervin, Joarder Kamruzzaman and Gour Karmakar

  Phoenix: A Protocol for Seamless Client Mobility in Publish/Subscribe
  Zigor Salvador, Mikel Larrea and Alberto Lafuente

10:45-11:00      Serrano Foyer    Break

12:00 -13:30     Serrano A   Lunch

Afternoon Parallel Session I

13:30 -15:00     Serrano B            Mobile Ad-Hoc Networks (MANET)    Session Chair: TBD

  Spotcast – A Communication Abstraction for Proximity-Based Mobile Applications
  Behnaz Bostanipour, Benoit Garbinato and Adrian Holzer

  Interest-centric Mobile Ad Hoc Networks
  Renato C. Dutra, Heberte F. Moraes and Claudio L. Amorim

  A performance evaluation of HRAN: A hybrid routing protocol using bloom filters for wireless
  mobile ad hoc networks
  João Trindade and Teresa Vazão

15:00-15:15      Serrano Foyer    Break

15:15 -16:15     Serrano B             Performance Modeling/Quality of Services (QoS) Issues Part 2    Session Chair: TBD

  The impact of user’s dynamic behavior on web performance
  Raúl Peña-Ortiz, José Antonio Gil, Julio Sahuquillo and Ana Pont

  A Reservation Scheme for QoS Provision within Mobile Multihop Relay Networks
  Neila Krichene and Noureddine Boudriga
Afternoon Parallel Session II

13:30 – 15:00  Serrano C  Cloud Computing Part 1  Session Chair: TBD

Performance Aspects of Data Transfer in a New Networked I/O Architecture
_Cynthia Taylor and Joe Pasquale_

A Density-based Anomaly Detection Method for MapReduce
_Kai Wang, Ying Wang and Bo Yin_

A Novel Associative Model of Data: Toward a Distributed Large-Scale Data Processing Scheme for Future Computer Clouds
_Amir Hossein Basirat and Asad I. Khan_

15:00 -15:15  Serrano Foyer  Break

15:15-16:45  Serrano C  Cloud Computing Part 2  Session Chair: TBD

Deploying Virtual Clusters through P2P-based Content Distribution
_Ian Chang-Yen and Dr. Nian-Feng Tzeng_

Task and Server Assignment for Reduction of Energy Consumption in Datacenters
_Ning Liu, Ziqian Dong and Roberto Rojas-Cessa_

An Online Power Metering Model for Cloud Environment
_Yanfei Li, Ying Wang, Bo Yin and Lu Guan_

16:45-17:00  Serrano Foyer  Break-End of Parallel Session 2

17:00 - 17:45  Serrano B/C  Keynote Address:  _Assuring the Trustworthiness of the Smarter Electric Grid_, Professor William H. Sanders University of Illinois, Director of Coordinated Sciences Lab

18:00-19:00  Serrano Foyer  Reception (Cocktails)

19:00-21:00  Serrano C  Banquet
Saturday August 25th, 2012

8:00 – 8:30  Serrano Foyer  Breakfast

Parallel Session I

8:30 – 9:30  Serrano B Self-configuring, healing, optimizing, protecting concepts

Session Chair: TBD

Anomaly Detection Techniques for Web-based Applications: An Experimental Study
João Paulo Magalhães and Luis Moura Silva

Machine Learning Methodology for Enhancing Automated Process in IT incident Management
Haochen Li and Zhiqiang Zhan

9:30-9:45  Serrano Foyer  Break

9:45– 11:15  Serrano B  Networking Protocols, Verification and Validation  Session Chair: TBD

Protocol proof checking simplified with SMT
Mark Tuttle and Amit Goel,

ASAP: an Aggressive Speculative Protocol for Actively Replicated Transactional Systems
Roberto Palmieri, Francesco Quaglia and Paolo Romano

SLBN: A Scalable Max-min Fair Algorithm for Rate-Based Explicit Congestion Control
Iberto Mozo, Jose Luis López-Presa and Antonio Fernández Anta

12:00 -13:30  Lunch

13:30-14:30  Serrano B  System Area Networks, Scalable Servers  Session Chair: TBD

A New Family of Hybrid Topologies for Large-Scale Interconnection Networks
Roberto Peñaranda, Crispin Gomez, Maria E. Gomez, Pedro Lopez and Jose Duato

Infrastructure Provisioning for Scalable Content-based Routing: Framework and Analysis
Raphaël Barazzutti, Pascal Felber, Hugues Mercier, Emanuel Onica, Jean-François Pineau, Etienne Rivière and Christoph Fetzer

14:30 -14:45  Serrano Foyer  Break  End of Parallel Session I
Parallel Session II

8:30 – 10:45  Serrano C  Sensor Networks  Session Chair: TBD

LooCI: the Loosely-coupled Component Infrastructure
Danny Hughes, Klaas Thoelen, Jef Maerien, Nelson Matthys, Wouter Horré, Javier Del Cid, Christophe Huygens, Sam Michiels and Wouter Joosen

Local Algorithms for Robust Mission Realization in Large-Scale Disconnected Networks
Michel Charpentier, Radim Bartos and Ying Li

9:30- 9:40  Serrano Foyer  Break

Cluster-Based Fast Broadcast in Duty-Cycled Wireless Sensor Networks
Mustapha Khiati and Djamel Djenouri

A Localized Algorithm for the Maximum Lifetime Broadcast Problem with Asymmetric Edge Costs
Bruno Nunes, Frederico Barboza and Flavio Assis

11:00 –12:00  Serrano C  Security Concepts  Session Chair: TBD

A Multi-Fence Countermeasure Based Inter-domain Source Address Validation Method
Jie Li and Wei Zhang

Syed Rehan Afzal

12:00 -13:30                               Lunch

13:30-14:30  Serrano C  Novel Concepts  Session Chair: TBD

Sensing and Actuation as a Service: a new development for Clouds
Salvatore distefano, Giovanni Merlino and Antonio Puliafito

Proximity Detection and Message Exchange in WLANs
Sascha Schnaufer, Johannes Kiess, Hendrik Lemelson, Stephan Kopf, Sebastian Geiger and Wolfgang Effelsberg

14:30-14:45  Serrano Foyer  Break  End of Parallel Session II

15:00  Serrano B/C  Closing Remarks for NCA12
Many thanks to all the volunteers who made NCA12 a success.

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