Invited Speakers and Workshop Leaders

Amar Aïssani, USTHB, Algiers Kamel Barkaoui, CNAM, Paris

Bernd Heidergott, Vrij Amsterdam University

Nadjib Badache, Cerist, Algiers

Françoise Simonot-Lion, Loria, Nancy

Natacha Djellab, University of Annaba

Laszlos Lakatos, Budapest University

Gerard Reiner, University of Neuchâtel

Abdellah Boukerram, University of Setif

Sebastian Games Obrador, University of the Balearic Islands

Malika Boukala-Ioualalen, USTHB, Algiers

Catalina Llado, University of the Balearic Islands

Mohamed Escheikh, ENIT, Tunis

Mahmoud Boufaida, University of Constantine

Ramon Puigjaner, University of the Balearic Islands

Important Dates:

Deadline for participation: March 15, 2011

Workshop: April 10 and 11, 2011.

Sponsors:

Different scientific institutions, organizations and socio-economic regional and national industrial companies.

Web Sites:

http://www.univ-bejaia.dz http://www.lamos.org.

Contacts:

Secretary of the Workshop *EPQoS'2011* Department of Operational Research Faculty of Exact Sciences, University of Bejaïa Targua Ouzamour, 06 000 Algeria Telephone: +213 34 21 08 00

Fax: +213 34 21 51 88

Mail: workshop_epqos2011@yahoo.fr

Democratic and Popular Republic of Algeria Ministry of Higher Education and Scientific Research

University Abderrahmane Mira - Bejaïa Faculty of Exact Sciences

LAMOS
Laboratory of Modeling
and Optimization of Systems

Department of Operational Research

International Workshop



Performance Evaluation and Quality of Service







April 10 – 11, 2011 Bejaïa, Algeria

Presentation

Computer systems and communication networks (Internet, mobile networks, ad hoc networks, sensor networks,...) have recently witnessed their fastest growth period ever in history. Their evolution allows implementation of parallel and distributed architectures increasingly sophisticated, incorporating both distributed processing and exchange of information between these treatments. These networks are increasingly complex, performance modelling and evaluation will play a crucial part in their design process to ensure their successful deployment and exploitation in practice.

For over twenty years, the LAMOS laboratory is interested in this issue. From 1988, the dependability was addressed in the National Conference MFSI (Modèles de Fiabilité et Sciences de l'Ingénieur, Béjaïa – March 1988). Thereafter, other topics, specific to the computer systems and telecommunication networks, were integrated into the program of the International Conferences MOAD (Méthodes et Outils d'Aide à la Décision, especially those of Béjaïa in 1992 and 2007).

Objectives

This workshop aims to bring together experts in the field and young researchers involved in performance optimization of these systems and networks to share and exchange their experiences, discuss challenges, and report state-of-the-art and in-progress research on some aspects of these systems and networks with a specific emphasis on their performance evaluation .

Locally, the workshop will help to refine the consistency of the Master project "Fiabilité et Evaluation des Performances des Réseaux" of the operational research department, especially after creating the cooperation project Algeria-Spain A/020297/08.

Topics

Algorithms and protocols of the network layer in the mobile ad hoc and sensor networks (proactive, reactive and hybrid): Performance and quality of service and/or conservation of energy

- Protocols of linear routing (data-centric)
- Protocols of hierarchical routing
- Protocols of geographical routing (localization)
- Protocols based on the negotiation

Mechanisms and Protocols of the Mac layer in the wireless networks (fixed, mobiles, ad hoc, and sensors): Performance and quality of service

- Protocols of communication in wireless networks with quality of service
- Protocols of communication in mobile ad hoc networks with quality of service
- Design of Mac layer in wireless sensor networks

Management of information in systems and networks (distributed systems, Internet, ad hoc networks, sensor networks, etc.)

- Caches management
- Algorithms for inter-caches cooperation
- Management of the data consistency
- Load balancing
- Traffic Models

Stochastic Models in the performance evaluation of systems

- Markov chains and queueing networks
- Stochastic Petri networks
- Large deviations for stochastic processes
- Discrete events simulation: methods and tools
- Comparison of performance models

Honorary Chairs

Pr Djoudi Merabet, Rector of the University of Béjaïa Pr Moussa Kerkar, Dean of the Faculty of Exacts Sciences

Organizing Committee

Dr. Louiza Bouallouche – Medjkoune (President), Dr. Khelfaoui Youcef (Vice-President), Mr. Fouzi Semchedine, Dr. Redouane Laggoune, Mr. Nourredine Khimoum, Mr. Kamel Kabyl, Melle. Nadjet Benhamida, Mme. Samira Yessad, Mr. Mohamed Toumi, Melle. Samra Boulefkhar, Melle. Nadjet Rebouh, Mr. Ali Larbi, Melle. Nadjette Khoulalene, Melle. Zahia Azizou, Melle. Lina Bachiri, Mr. Mouloud Atmani, Mme. Karima Adel, Mr. Mourad Amad, Mr. Nadir Bouchama, Mr. Abdelhak Goutal, Mr. Omar Hamdouni.

Steering Committee

Pr. Djamil Aïssani, Pr. Mohamed Saïd Radjef, Dr. Louiza Bouallouche – Medjkoune, Dr. Smail Adjabi, Dr. Rabah Medjoudj, Dr. Mohamed Boualem, Dr. A/Kamel Tari, Pr. Mohand Ouamar Bibi.