

## CALL FOR PAPERS

### **QPWSN'10**

### **1<sup>st</sup> International Workshop on "QoS Provision in Wireless Sensor Networks"**

<http://www.icte.uowm.gr/qpwsn10/>

organized in conjunction with

### **The 6<sup>th</sup> IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS '10)**

23 June 2010, Santa Barbara, California

<http://www.dcross.org/>

#### **Important Dates:**

Manuscript Submission: 23 April 2010

Acceptance Notification: 7 May 2010

Camera ready: 21 May 2010

#### **Scope and Overview:**

Wireless Sensor Networks (WSNs) are a modern kind of wireless networks, where numerous monitoring devices are interconnected to communicate their collected data. The literature has not paid yet enough attention to QoS in WSNs. This is mainly due to the currently unclear purpose and usage of the WSNs, which significantly differ from the traditional networks. However, modern WSN applications require traffic differentiation, guaranteed end-to-end delivery, low delay jitter, and high throughput. The sensors' limited resources and energy autonomy combined with the unreliable wireless medium make QoS support in WSN certainly challenging. Thus, new designs for offering QoS in WSNs are becoming necessary.

This Workshop will try to analyze modern methods of providing QoS support in WSNs, explain all related issues, highlight the problems that arise when trying to provide QoS demanding services over wireless networks, present the theoretical background, bring out related solutions given so far, and moreover, exhibit the latest research concepts and relevant ideas regarding near-future implementations.

#### **Topics of Interest:**

*Topics of interest include, but are not limited to:*

- Multimedia transmissions over WSNs
- QoS capable routing algorithms for WSNs
- Traffic prioritization schemes for WSNs
- QoS supportive protocols for medium access control in WSNs
- Power saving mechanisms for WSNs
- Medical content transfer using sensors for telemedicine
- Categorized data communications over environment monitoring WSNs
- Novel applications for QoS aware WSNs
- Cross-layer techniques for QoS provision in WSNs
- Simulation of QoS aware WSNs
- Analytical models for QoS aware WSNs

#### **Paper submission:**

Papers are solicited in the IEEE proceedings format with up to eight (8) pages. Papers in PDF format must be submitted via Easy Chair by using the following URL: <http://www.easychair.org/conferences/?conf=qpwsn10>. All submissions must be original prior unpublished work and not under review elsewhere. All papers will be reviewed and selected based on their originality, merit, and relevance to the workshop. Accepted papers must be presented at the workshop, will appear in the DCOSS proceedings and will be included in the IEEE digital library. Please email to the workshop co-chairs if you have any questions.

#### **Workshop Co-Chairs:**

Thomas D. Lagkas, University of Western Macedonia, Greece

Pantelis Aggelidis, University of Western Macedonia, Greece

**Workshop TPC Members:**

Christos Bouras, University of Patras and RACTI, Greece  
Periklis Chatzimisios, Technological Educational Institute of Thessaloniki, Greece  
Der-Jiunn Deng, National Changhua University of Education, Taiwan, R.O.C.  
Gianluigi Ferrari, University of Parma, Italy  
Vasileios Gkamas, Research Academic Computer Technology Institute, Patras, Greece  
Alexandros Kalokylos, University of Peloponnese, Greece  
Eirini Karapistoli, CERTH - Informatics and Telematics Institute, Greece  
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Vinod Mirchandani, University of Technology, Australia  
Marek Natkaniec, AGH University of Science and Technology, Poland  
Christos Papageorgiou, University of Patras, Greece  
Dimitrios Stratogiannis, National Technical University of Athens, Greece  
Hang Su, Texas A&M University, U.S.A.  
Georgios Tsiropoulos, National Technical University of Athens, Greece  
Christos Verikoukis, Telecommunications Technological Centre of Catalonia, Spain  
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