
CALL FOR PAPERS

3rd International Workshop on Data-intensive Process Management in Large-Scale Sensor Systems (DPMSS): From Sensor Networks to Sensor Clouds
jointly held with
CCGrid 2014 - The 14th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing
May 26-29, 2014, Chicago, USA

Due to recent advances in electronics and communication technologies, Sensor Networks (SNs) have been introduced and are currently emerging as one of the most disruptive technologies enabling and supporting next generation ubiquitous and pervasive computing scenarios. In recent years there has been a great surge of interest in SN-based applications, mainly focused on developing hardware, software, and networking architectures needed to enable such applications. In the future, SN will be often seamlessly integrated with decentralized distributed systems based on other networks, particularly IP-based networks. Such integration will raise new issues in the development, deployment and management of such large-scale SN-based systems. The convergence of processes and data management over large-scale SN-based systems results in the definition of the so-called data-intensive processes over large-scale SN-based systems, which represents a novel and leading context for a wide research community. In this respect, relevant issues concern with methodologies for modeling and supporting data-intensive processes, integration and fusion approaches over data-intensive processes, activation and enactment paradigms for data-intensive processes over large-scale SN-based systems, development approaches for SN-based systems, large-scale wireless sensor network systems. The aim of this workshop is to capture the new research trends and results in terms of design, architectures, techniques, and applications for the management of processes and data in large-scale systems based on sensors, with particular emphasis on the integration of large-scale SNs with Grid and Cloud infrastructures.

Areas of Interest

- Architectures for the management of large-scale SNs
- Sensor data processing using Cloud environments
- Specialist sensor networks for Cloud monitoring
- Collaborative Wireless Sensor Networks
- Integration of WSNs and mobile body sensor networks (Body Area Networks and Clouds)
- Representation models for data-intensive processes over large-scale SN-based systems;
- Indexing strategies for data-intensive processes over large-scale SN-based systems;
- Data exchange paradigms of data-intensive processes over large-scale SN-based systems;
- Data fusion primitives and methods of data-intensive processes over

large-scale SN-based systems;

- Data analytics over data-intensive processes over large-scale SN-based systems;
- Data scalability, reliability, and availability aspects of data-intensive processes over large-scale SN-based systems;
- Models for data-intensive processes over large-scale SN-based systems;
- Data access methods for data-intensive processes over large-scale SN-based systems;
- Run-time support schemes of data-intensive processes over large-scale SN-based systems;
- Integration schemes for data-intensive processes over large-scale SN-based systems;
- Workflow paradigms for data-intensive processes over large-scale SN-based systems;
- SN-based Systems in e-Health, e-Factory, Smart City, etc.
- Sensor data collection via Cloud storage

Session Organizers

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Web Site

<http://plasma.deis.unical.it/events/dpms2014/>

Submission Guidelines

Original papers from the above-mentioned or other related areas will be considered. Papers will be evaluated by at least three reviewers. Please submit full papers: 8 pages maximum in pdf according to IEEE format for

conference proceedings. The submission link is:
<https://www.easychair.org/conferences/?conf=dpmss2014>

Publication

The proceedings will be part of the CCGrid 2014 proceedings published by the IEEE Computer Society Press, USA and will be made available online through the IEEE Digital Library.

Journal Special Issue

Selected papers presented at the conference will be invited to a special issue organized on a premier International Journal (with SCI Index) that is under selection.

Important Dates

February 15, 2014: Submission Deadline
March 1, 2014: Acceptance/Rejection Notification.
March 14, 2014: Final camera-ready papers.
May 26, 2014: Workshop Takes Place.