

## **Editorial Notes**

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Welcome to the October 2017 edition of the IEEE Distributed Processing Technical Committee's Newsletter. This volume includes interesting articles, job advertisements, upcoming conferences.

The IEEE Computer Society Technical Committee on Distributed Processing (TCDP) is the ideal and appropriate organization to:

- Foster and provide a fertile ground of our conferences.
- Provide a forum for discussing all activities related to distributed processing.
- Accept and publish through newsletters short articles from TCDP members.
- Announce job advertisements.
- Distribute to this community call for papers.
- Announce upcoming conferences.

### **1. Interesting Articles/Papers**

**Innovative control system paves the way for large scale universal quantum computing**

See more at: <https://www.sciencedaily.com/releases/2017/09/170926133045.htm>

**Scheme would make new high-capacity data caches 33 to 50 percent more efficient**

See more at: <https://www.sciencedaily.com/releases/2017/10/171023131938.htm>

**Cost-Aware Big Data Processing Across Geo-Distributed Datacenters**

See more at: <http://ieeexplore.ieee.org/document/7934132/>

**Nebula: Distributed Edge Cloud for Data Intensive Computing**

See more at: <http://ieeexplore.ieee.org/document/7954728/>

**Performing Initiative Data Prefetching in Distributed File Systems for Cloud Computing**

See more at: <http://ieeexplore.ieee.org/document/7070699/>

## Enumerating Maximal Bicliques from a Large Graph Using MapReduce

See more at: <http://ieeexplore.ieee.org/document/7398146/>

## Efficient Orchestration Mechanisms for Congestion Mitigation in NFV: Models and Algorithms

See more at: <http://ieeexplore.ieee.org/document/7321053/>

## Designing Self-Tuning Split-Map-Merge Applications for High Cost-Efficiency in the Cloud

See more at: <http://ieeexplore.ieee.org/document/7065311/>

## DyScale: A MapReduce Job Scheduler for Heterogeneous Multicore Processors

See more at: <http://ieeexplore.ieee.org/document/7065303/>

## 2. Job Advertisements

- Chinese Academy of Sciences, Shenzhen Institutes of Advanced Technology, Center for Cloud Computing Research is looking for postdoctoral research fellows as well as PhD students with a strong background in one or more of the following disciplines: distributed systems, algorithms, machine learning, data mining, statistical analysis, networking systems, control systems. Contact: Nikos Tziritas, [nikolaos@siat.ac.cn](mailto:nikolaos@siat.ac.cn), or Xi Zhang, [xi.zhang@siat.ac.cn](mailto:xi.zhang@siat.ac.cn).

**You can visit our website here** (currently only in Chinese language): <http://cloud.siat.ac.cn/cloud/>.

- Multiple PhD positions in the European Training Network for Fog Computing for Robotics and Industria, Technical University of Denmark.

**Apply here:** <http://www.fora-etn.eu/>

- Faculty Positions at all levels and in all areas of Electrical and Computer Engineering University of Illinois, Urbana-Champaign.

**Apply here:** <http://jobs.illinois.edu>

- Multiple Faculty Positions in Electrical and Computer Engineering San Diego State University.

**Apply here:** <https://apply.interfolio.com/42858>

TCDP members are welcome to suggest new job advertisements that can be included in our future newsletters. You can send any job advertisement to Dr. Nikos Tziritas, nikolaos@siat.ac.cn.

### 3. Upcoming Conferences

#### 3.1 Call for papers

##### **CLOUD**

Paper Submission: Feb. 6, 2018

Conference Dates: June 25- 30, 2018

Place: Seattle, USA

<http://www.thecloudcomputing.org/2018/index.html>

##### **EUROPAR**

Paper Submission: Feb. 16, 2018

Conference Dates: Aug. 27- 31, 2018

Place: Turin, Italy

<http://www.europar2018.org/>

##### **CCGRID**

Paper Submission: Nov. 20, 2017

Conference Dates: May 1- 4, 2018

Place: Washington DC, USA

<https://ccgrid2018.seas.gwu.edu/>

##### **HPDC**

Paper Submission: Jan. 24, 2018

Conference Dates: June 11- June 15, 2018

Place: Tempe, USA

<http://www.hpdc.org/2017/>

##### **ICS**

Paper Submission: January 18, 2018

Conference Dates: June 13-15, 2018  
Place: Beijing, China  
<http://ics2018.ict.ac.cn/>

### **ICDCS**

Paper Submission: December 12, 2017  
Conference Dates: July 2 - 6, 2018  
Place: Vienna, Austria  
<http://icdcs2018.ocg.at/>

### **PODC**

Paper Submission: February 18, 2018  
Conference Dates: July 23-27, 2018  
Place: London, United Kingdom  
<https://www.podc.org/>

## 3.2 Call for participation

### **INFOCOM**

Place: Honolulu  
Conference Dates: April 15-19, 2018

### **POPL**

Place: Los Angeles, USA  
Conference Dates: January 8-13, 2018  
[http://conf.researchr.org/home/POPL-2018?utm\\_source=researchbib](http://conf.researchr.org/home/POPL-2018?utm_source=researchbib)

### **PDCAT**

Place: Taipei, Taiwan  
Conference Dates: December 18-20, 2017  
<http://pdcat17.csie.ntust.edu.tw/index.php>

### **HPCC**

Place: Bangkok, Thailand  
Conference Dates: December 18-20, 2017  
<http://hpcl.seas.gwu.edu/hpcc2017/committees.html>

### **ICPADS**

Place: Shenzhen, China  
Conference Dates: December 15-17, 2017  
<http://futurenet.szu.edu.cn/icpads2017/>

**ICNC**

Place: Hawaii, USA

Conference Dates: March 5-8, 2018

<http://www.conf-icnc.org/2018/>

**IPDPS**

Conference Dates: May 21 - 25, 2018

Place: Vancouver, Canada

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