

## Editorial Notes

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Welcome to the March 2016 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

*Record-speed data transmission could make big data more accessible*

<https://www.sciencedaily.com/releases/2016/03/160323120342.htm>

*Breakthrough technology to improve cyber security*

<https://www.sciencedaily.com/releases/2016/03/160321110254.htm>

*Unlocking the gates to quantum computing*

<https://www.sciencedaily.com/releases/2016/03/160325151720.htm>

*Scientists suggest a 100 times faster type of memory cell based on superconductors*

<https://www.sciencedaily.com/releases/2016/03/160316093914.htm>

*DNA 'origami' could help build faster, cheaper computer chips*

<https://www.sciencedaily.com/releases/2016/03/160314084824.htm>

*Shuffling may be best cybersecurity defense*

<https://www.sciencedaily.com/releases/2016/03/160323190029.htm>

## 2. Job Advertisements

- Chinese Academy of Sciences, Shenzhen Institutes of Advanced Technology, Center for Cloud Computing Research is looking for postdoctoral research fellows 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
- The Department of Computational and Data Sciences (CDS), Indian Institute of Science, Bangalore, India is inviting applications for full-time tenure track faculty positions at all levels (Assistant Professor, Associate Professor and Professor). CDS is an interdisciplinary engineering department spanning the research areas of Computational Science and Engineering, and Data Sciences. Computational science deals with computational methods, related mathematics and algorithms, and the design of high performance and scalable systems to support scientific and engineering applications. Data Science explores models, algorithms and scalable systems to extract knowledge and insight from both structured and unstructured data of various scales. CDS invites applications in all areas of computational and data sciences that lie at the intersection of methods, systems and applications, specifically in the following topics.
  - o Computational Mathematics and its Application to Science and Engineering – All areas, especially in emerging areas and in areas that complement the specialization of the current faculty
  - o Data science and its Applications--All areas including analytics, assimilation, visualization, knowledge extraction and representation, statistics at scale, programming models and platforms.
  - o Scalable Systems for Computation and Data Sciences - emerging hardware architectures and software systems

CDS welcomes rolling applications, round-the-year, from Indian nationals who are exceptionally motivated, with an established record of independent, high quality research, and a commitment to teaching. The department expects the candidates to have published in top-ranking fora in their areas of expertise. Prospective faculty candidates are invited to email their application packets consisting of their CV, a list of three or more referees, a research statement with prior contributions and future plans, a teaching statement, and three select publications to [frc-chair@cds.iisc.ac.in](mailto:frc-chair@cds.iisc.ac.in)

Additional information:

- o More details for prospective faculty - <http://cds.iisc.in/opportunities/faculty/>
  - o Department web page: <http://cds.iisc.in>
  - o Institute web page: <http://www.iisc.in>
- The College of Engineering, Architecture and Computer Sciences at Howard University is entering an exciting new phase of transformation, and invites applications for tenure-track and tenured positions at the Assistant/Associate/Full Professor levels beginning August 2016 in the broad and interdisciplinary areas as indicated in each of the following academic departments:

- Computer Science – Interdisciplinary Research Priorities: 1. Cyber Security; 2. Data science; 3. Internet of Things (IoT); 4. Computational biology; and 5. Human Centered Computing.
- Electrical and Computer Engineering – Interdisciplinary Research Priorities: 1. Nanotechnology; 2. Biomedical Technology; 3. Energy and Power Systems; 4. Cyber Physical Systems.
- Chemical Engineering – Interdisciplinary Research Priorities: 1. Energy; 2. Environment; 3. Biomedical Technology; 4. Nanotechnology.
- Civil and Environmental – Interdisciplinary Research Priorities: 1. Sustainable and Resilient Infrastructure; 2. Environmental Sustainability; 3. Intelligent Transportation Systems; 4. Green Infrastructure; 5. Novel Materials for Civil and Environmental Engineering Applications.
- Mechanical – Interdisciplinary Research Priorities: 1. Power & Thermal Systems; 2. Energy; 3. Advanced Manufacturing; 4. Materials Science.

Applications, including a cover letter, a comprehensive curriculum vitae, a statement of research plan, a statement of teaching interests and philosophy, and the full names and contact information (postal address, phone number, and email address) of at least three professional references are to be submitted electronically to [howardceacs@howard.edu](mailto:howardceacs@howard.edu). For more information on Howard University and the College of Engineering, Architecture and Computer Sciences, please visit [www.howard.edu](http://www.howard.edu). Women and underrepresented minorities are urged to apply.

- Computer Science: Geneva College (Beaver Falls, PA) is seeking candidates for a tenure-track position in computer science. The candidate should have qualifications and/or experience in at least one of the following areas: (1) networks, (2) security, (3) web and mobile technology, (4) data science. The candidate should also be interested and able to teach foundational undergraduate courses in some of the following areas: computer organization, operating systems, programming, algorithms, database systems. The candidate must have at least a master's degree in a relevant discipline. A PhD in computer science is preferred but not essential. Geneva is an evangelical Christian college in the Reformed theological tradition. Faculty must be able to articulate a personal faith commitment to Jesus Christ, and be supportive of a reformed world view. Women and members of ethnic minorities are encouraged to apply. A more complete description of the position, qualifications, required application materials, and application procedure are available on line at [www.geneva.edu/page/employment](http://www.geneva.edu/page/employment).

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](mailto:nikolaos@siat.ac.cn).

### 3. Upcoming Conferences

#### 3.1 Call for papers

##### **MASCOTS**

Paper Submission: May 15, 2016  
Notification Due: June 15, 2016  
Conference Dates: September 21- 23, 2016  
Place: London, UK  
<http://san.ee.ic.ac.uk/mascots2016/>

##### **FM**

Abstract submission: May 16, 2016  
Paper submission: May 30, 2016  
Notification Due: August 8, 2016  
Conference Dates: November 7-11, 2016  
Place: Limassol, Cyprus  
<http://fm2016.cs.ucy.ac.cy/>

##### **HPCA**

Abstract submission: July 25, 2016  
Paper submission: August 1, 2016  
Notification due: October 12, 2016  
Conference Dates: February 4-8, 2016  
<http://hpca2017.org/>

##### **POPL**

Abstract registration: July 1, 2016  
Paper submission: July 6, 2016  
Notification due: October 3, 2016  
Conference Dates: Jan 18-20, 2016  
<http://conf.researchr.org/home/POPL-2017>

#### 3.2 Call for participation

##### **ICDCS**

Conference Dates: June 27 - 30, 2016  
Place: Nara, Japan  
<http://www-higashi.ist.osaka-u.ac.jp/icdcs2016/>

##### **ICDCN**

Conference Dates: January 4-7, 2016  
Place: Singapore  
<http://conf.researchr.org/home/ppopp-2016>

**INFOCOM**

Conference Dates: April 10-15, 2016

Place: San Francisco, USA

<http://infocom2016.ieee-infocom.org/>

**ICC**

Conference Dates: May 23-27, 2016

Place: Kuala Lumpur, Malaysia

<http://icc2016.ieee-icc.org/>

**IC2E**

Conference Dates: April 4-8, 2016

Place: Berlin, Germany

<http://conferences.computer.org/IC2E/2016/index.htm>

**Euro-Par**

Conference Dates: August 22 - 26, 2016

Place: Grenoble, France

<https://europar2016.inria.fr/>

**PODC**

Conference Dates: July 25-28, 2015

Place: Chicago, USA

[http://www.podc.org`](http://www.podc.org)

**ICS**

Conference Dates: May 30- June 2, 2016

Place: Istanbul, Turkey

<http://ics16.bilkent.edu.tr/index.htm>

**HPDC**

Conference Dates: May 31- June 4, 2016

Place: Kyoto, Japan

<http://www.hpdc.org/2016/>

**ICCS**

Conference Dates: June 6- 8, 2016

Place: San Diego, USA

<http://www.iccs-meeting.org/iccs2016/>

**WiOpt**

Conference Dates: May 9- 13, 2016

Place: Arizona, USA

<http://www.wi-opt.org/index.html>

**SIGCOMM**

Conference Dates: August 22- 26, 2016

Place: Salvador, Brazil

<http://conferences.sigcomm.org/sigcomm/2016/>

**SEC (The First IEEE/ACM Symposium on Edge Computing)**

Conference Dates: October 27-28, 2016

Place: Washington DC, USA

<http://conferences.computer.org/sec/>

**ICPP**

Conference Dates: August 16 - 19, 2016

Place: Philadelphia, USA

<http://icpp2016.cs.wcupa.edu/>