IEEE TCDP Editorial Notes, June 2020

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Welcome to the June 2020 edition of the IEEE Distributed Processing Technical Committee’s Newsletter. This volume includes awards, 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. IEEE TCDP Awards

2020 IEEE TCDP Outstanding Technical Achievement Awards
https://tc.computer.org/tcdp/awardrecipients/

The IEEE Computer Society Technical Committee on Distributed Processing (TCDP) has named Professor John Ousterhout from Stanford University and Professor Miron Livny from University of Wisconsin as the recipients of the 2020 Outstanding Technical Achievement Award.

John Ousterhout is the Bosack Lerner Professor of Computer Science at Stanford University. He received a BS in Physics from Yale University and a PhD in Computer Science from Carnegie Mellon University. He was a Professor of Computer Science at U.C. Berkeley for 14 years, followed by 14 years in industry, where he founded two companies (Scriptics and Electric Cloud), before returning to academia at Stanford. He is a member of the National Academy of Engineering, a Fellow of the ACM, and has received numerous awards, including the ACM Software System Award, the ACM Grace Murray Hopper Award, the National Science Foundation Presidential Young Investigator Award, and the U.C. Berkeley Distinguished Teaching Award. The TCDP award citation for Professor Ousterhout is for seminal contributions to infrastructure for large-scale distributed systems.
Miron Livny is the John P. Morgridge Professor of Computer Science at the University of Wisconsin – Madison where he is serving as the Director of the Center for High Throughput Computing and the Lead Investigator of Computing Technologies at the Morgridge Institute for Research. He has been serving as the Technical Director of the Open Science Grid and has been collaborating for more than three decades with researchers from a wide spectrum of science domains. Two of these collaborations – the LHC experiments and the LIGO collaboration – were recently awarded Nobel prizes in physics (2013 and 2017 respectively). The TCDP award citation for Professor Livny is for his Influential Contributions of the Condor system to Distributed and High Throughput Computing.

**2020 IEEE TDCP ICDCS High Impact Papers Award**

To celebrate the 40 years anniversary of the International Conference on Distributed Systems (ICDCS), the IEEE Technical Committee on Distributed Processing (TCDP) Award Committee has selected ICDCS High Impact Papers that have profoundly influenced the field of distributed computing systems. The high impact paper awards are sponsored jointly by ICDCS 2020 and IEEE TCDP.

The committee decided to award the following two ICDCS High Impact Papers to

John Ousterhout,
for his paper entitled “Scheduling Techniques for Concurrent Systems” in ICDCS 1982;

Michael J. Litzkow, Miron Livny and Matt W. Mutka

**2. Interesting Articles/Papers**

Teleportation: Important step in improving quantum computing
(The research is an important step in improving quantum computing, which, in turn, has the potential to revolutionize technology, medicine, and science by providing faster and more efficient processors and sensors.)
See more at: https://www.sciencedaily.com/releases/2020/06/200619115707.htm

Unique material design for brain-like computations
(The neuromorphic computing concept is an in-memory solution that promises orders of magnitude reductions in power consumption over conventional transistors, and is suitable for complex data classification and processing.)
See more at: https://www.sciencedaily.com/releases/2020/06/200618132349.htm
The first intuitive programming language for quantum computers
(Silq is the very first high-level programming language for quantum computers.)
See more at: https://www.sciencedaily.com/releases/2020/06/200615115820.htm

Joint Communication, Computation, Caching, and Control in Big Data Multi-Access Edge Computing.
See more at: https://ieeexplore.ieee.org/abstract/document/8676256

A Game-Theoretical Approach for User Allocation in Edge Computing Environment
See more at: https://ieeexplore.ieee.org/document/8823046

Exploring New Opportunities to Defeat Low-Rate DDoS Attack in Container-Based Cloud Environment
See more at: https://ieeexplore.ieee.org/document/8845616

Optimizing Geo-Distributed Data Analytics with Coordinated Task Scheduling and Routing
See more at: https://ieeexplore.ieee.org/abstract/document/8818672

3. Job Advertisements

- Postdoc position in the theoretical foundation of high-dimensional data analytics and machine learning, Rensselaer Polytechnic Institute. If interested, please send your CV and two representative publications to Prof. Meng Wang (wangm7@rpi.edu).

- The School of Electrical and Computer Engineering at the Georgia Institute of Technology has an immediate new opening for a full-time Postdoctoral Researcher in the area of Cybersecurity.
  Apply here: https://academicjobsonline.org/ajo/jobs/16139

- The University of Notre Dame has an open postdoctoral position in social media analysis and image processing in support of a large multinational effort to study the effect of deceptive images on social media. Applicants must submit a CV, and contact information to tweninger@nd.edu.


- Professor/Associate Professor/Assistant Professor in the Department of Computer Science at City University of Hong Kong.
  Apply here: http://jobs.cityu.edu.hk

- Assistant Professor position in computer science, Southern Illinois University. All application materials to be sent directly via email to hiring@cs.siu.edu

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. Palden Lama, Palden.Lama@utsa.edu.
4. Upcoming Conferences

4.1 Call for papers

**POPL**
Paper submission: July 9, 2020
Place: Copenhagen, Denmark
Conference Dates: January 17-22, 2021
https://popl21.sigplan.org/

**PDCAT**
Paper submission: July 14, 2020
Place: Macau, China
Conference Dates: December 7-10, 2020
http://conferences.cis.umac.mo/pdcat20/

**ICPADS**
Paper submission: July 15, 2020
Place: Hong Kong
Conference Dates: December 2-4, 2020

**HPCC**
Paper submission: September 1, 2020
Place: Fiji
Dates: December 14-16, 2020
http://cse.stfx.ca/~hpcc/2020/

**NAS**
Paper submission: Dec 6, 2020
Place: Riverside, CA
Conference Dates: May 3-5, 2021

4.2 Call for participation

**ICDCS**
Conference Dates: Nov 29-Dec 1, 2020
Place: Singapore
https://icdcs2020.sg/

**ICNP**
Conference Dates: Oct 13-16, 2020
Place: Madrid, Spain
https://icnp20.cs.ucr.edu/

**MASS**
Conference Dates: Dec 10-13, 2020
Place: Delhi NCR, India  
https://www.iitr.ac.in/mass2020/  

**Euro-Par**  
Conference Dates: August 24-28, 2020  
Place: Warsaw, Poland  
https://2020.euro-par.org/  

**PODC**  
Conference Dates: Aug 3-7, 2020  
Place: Salerno, Italy  
http://www.podc.org  

**ICS**  
Conference Dates: June 29-July 2, 2020  
Place: worldwide online event  
https://ics2020.bsc.es/  

**HPDC**  
Conference Dates: June 23-26, 2020  
Place: Stockholm, Sweden  
http://www.hpdc.org/2020/  

**ICPP**  
Conference Dates: August 17-20, 2020  
Place: Edmonton, AB, Canada  
https://jnamaral.github.io/icpp20/  

**MASCOTS**  
Conference Dates: November 17-19, 2020  
Place: Nice, France  
http://mascots.iitis.pl/  

**SoCC**  
Conference Dates: October 19-21, 2020  
Place: Renton, WA  
https://acmsocc.github.io/2020/  

**ACSOS**  
Conference Dates: August 17-21, 2020  
Place: Washington, DC  
https://acsos.github.io/  

**DISC**  
Conference Dates: October 12-16, 2020  
Place: Freiburg, Germany  