

10th NSF/TCPP Workshop on Parallel and Distributed Computing Education (EduPar-20)

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TCPP Curriculum Initiative

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New Orleans (Virtual), May 18, 2020

Big Thanks to EduPar'20 Organizers, Authors & Speakers!

- *Program Chair and Co-Chair:*
 - **Tia Newhall (Swarthmore College)**
 - David Bunde (Knox College)
- *Peachy Assignments Chair:*
 - David Bunde (Knox College)
- *Poster Chair:*
 - Martina Barnas (Indiana University)
- *Proceedings Chair:*
 - Satish Puri, Marquette
- *Organizing Committee:*
 - Martina Barnas, Indiana University
 - Sheikh Ghafoor, Tennessee Tech
 - Anshul Gupta, IBM Research
 - Alan Sussman, U Maryland
 - Charles Weems, U Massachusetts
 - Ramachandran Vaidyanathan, LSU
- **Keynote:** Margaret Martonosi, NSF & Princeton
- **Panel:** *Looking Back, Looking Forward: PDC, CS and society: Chtchelkanova/NSF, Gabb/Intel, Lumsdaine/UW, Martonosi/NSF, and Rosenberg/NEU*
- **Next Workshops**
 - EduHPC'20 at SC, Atlanta, Nov 15 (Sun)
 - EduHiPC @HiPC, Pune, India, Dec 16-19
- **Call for Paper**
 - JPDC Special Issue for Edu* 2017-19 and others <https://www.journals.elsevier.com/journal-of-parallel-and-distributed-computing/call-for-papers/teaching-parallel-distributed-and-high-performance-computing>
 - Letter of intent (title and author list due to Guest Editors): **August 15, 2020** (optional)
 - Submission of papers to the journal due: **September 15, 2020**
- **Sponsors:**
 - NSF, Intel, IEEE TCPP

NSF-sponsored TCPP Curriculum Initiative

What should every Computer Science and Engineering Student know about Parallel and Distributed Computing (PDC)? <http://www.cs.gsu.edu/~tcpp/curriculum/>

- **Revision Aspects:** Energy, Distributed, Big Data, Pervasive topics
- Timeline:
 - Beta Version-1.9 @ EduPar'19
 - Ongoing revision based on expert reviews
 - Public review release May 31, 20
- 12:30 pm: Session on Curriculum Update
- **New:** NSF Institute Planning Grant => 4 planning workshops
 - SC'19
 - SIGCSE'20
 - **June 27 (Sat) – by invitation**
 - NSF – Fall'20

TCPP Curriculum Initiative – contd.

- CDER Book series:
 - Vol 1: Topics in Parallel and Distributed Computing
 - Introducing Concurrency in Undergraduate Courses, *Morgan Kaufman*
 - Vol 2: Topics in Parallel and Distributed Computing
 - Enhancing the Undergraduate Curriculum: Performance, Concurrency, and Programming on Modern Platforms, *Springer*
 - **Free Pre-Print Version** on CDER site
 - Upcoming CFP for 3rd Volume – Experience of Early Adopters
 - Exemplars + Resources on courses and topics s
- CDER Heterogenous Cluster
 - Multi-core, GPU, Shared/Distributed Memory, **Hadoop/Spark**
 - **Ask for class accounts**