

EduHPC-20:
Workshop on Education for High-Performance
Computing
+
NSF/TCPP Curriculum Initiative

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Big Thanks to EduHPC'20 Organizers, Authors and Attendees!

- *Program Chair:*
 - Trilce Estrada, UNM
- Program Vice Chair:
 - Joel Adams, Calvin College
- *Former Program Chair:*
 - Debzani Deb, WSSU
- Peachy Assignment Coordinator:
 - David Bunde, Knox College
- *Proceedings Chair:*
 - Satish Puri, Marquette
- *Organizing Committee:*
 - Martina Barnas, Indiana University
 - Sheikh Ghafoor, Tennessee Tech
 - Anshul Gupta, IBM Research
 - Cynthia Phillips, Sandia
 - Alan Sussman, U Maryland
 - Charles Weems, U Massachusetts
 - Ramachandran Vaidyanathan, LSU
- Next Workshop
 - EduPar'21 at IPDPS, May
- Sponsors:
 - NSF, Intel, IEEE TCPP

NSF/TCPP Curriculum Initiative

What should every Computer Science and Engineering Student know about Parallel and Distributed Computing (PDC)?

<https://tcpp.cs.gsu.edu/curriculum/>

- Aspects: Energy, Distributed, Big Data, Pervasive topics
- Timeline:
 - Version-1.9 announced @ EduPar'19
 - Revised based on expert reviews
 - **Version-2-beta released @ EduHPC'20**
 - **Public Feedback:**
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- **1:20 pm: Session on Curriculum Update**
- **Companion Activities:**
 - Exemplars
 - CE-oriented TCPP Curriculum
- **New:** NSF Institute Planning Grant => 4 planning workshops
 - SC'19 (Mon - tomorrow) – by invitation
 - SIGCSE'20
 - July, 2020
 - NSF – Fall'20

NSF/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 (40K downloads)
 - **Upcoming CFP for 3rd Volume** – Experience of Adopters
 - Exemplars + Resources on courses and topics
- CDER Heterogenous Cluster
 - Multi-core, GPU, Shared/Distributed Memory, **Hadoop/Spark**
 - **Ask for class accounts**
- **Training workshops** – NSF/Intel funded