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

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Nov 13, 2020 - online
Big Thanks to EduHPC’20 Organizers, Authors and Attendees!

- **Program Chair:**
  - Trilce Estrada, UNM
- **Program Vice Chair:**
  - Joel Adams, Calvin College
- **Former Program Chair:**
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- **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: sushil.prasad@utsa.edu
• 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
• **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