EduHPC-19: Workshop on Education for High-Performance Computing

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NSF/TCPP Curriculum Initiative

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Big Thanks to EduHPC'19 Organizers!

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- Next Workshops
  - EduHiPC @HiPC, Dec 17, India
  - EduPar'20 at IPDPS, New Orleans, May
- Watch for CFPs in Spring'20
  - JPDC Special Issue – for Edu* 2018-19
  - CDER Book vol 3
    - Early adopter experience

- Sponsors:
  - Intel, NSF, IEEE TCHPC, IEEE TCPP

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

- Aspects: Energy, Distributed, Big Data, Pervasive topics
- Timeline:
  - Beta Version-1.9 @ IPDPS'19
  - Ongoing revision based on expert reviews
  - Public review release Dec'19
- 2 pm: Session on Curriculum Update:
  - Feedback/Participation needed
- New: NSF Institute Planning Grant => 4 planning workshops
  - SC'19 (Mon - tomorrow) – by invitation
  - SIGCSE'20
  - IPDPS'20
  - 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
  - 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