

Bench'20 Opening Remarks

Prof. Dr. Jianfeng Zhan

General Chair of Bench'20

The Introduction of BenchCouncil

- International Open Benchmark Council
 - Starting its activities from 2013
- Non-profit organization
 - standardization, benchmarking, evaluation of Chip, AI, Big Data, and other emerging techniques.
- Benchmarks
 - Big Data: BigDataBench
 - AI: AIBench
 - Chip: BENCHCPU

Bench Conference

- [BenchCouncil International Symposium on Benchmarking, Measuring and Optimizing \(Bench\)](#)
 - The only conference focusing on Benchmarks
 - Co-located with SC, but independent
- Starting from BOPE 2013 workshop
 - The First Workshop on Big Data Benchmarks, Performance Optimization, and Emerging hardware (BPOE 2013)
 - October 8, 2013, Silicon Valley, CA, USA
 - BPOE-6: <https://www.springer.com/gp/book/9783319290058>
 - BPOE-4&5: <https://www.springer.com/gp/book/9783319130200>
- The third edition of the Bench Conferences
 - Bench'19: <https://link.springer.com/book/10.1007/978-3-030-49556-5>
 - Bench'18: <https://www.springer.com/cn/book/9783030328122>

The Features of Bench

- Multidisciplinary
 - Architecture, system, algorithms and applications
- Protect concurrent work. (Micro'20 Review Rules by Mattan Erez and Jun Yang)
 - Pointing out closeness to prior work that informs the reviewer's decision to lower the novelty and contribution of a paper, but neglecting to provide a full citation to that prior work.
 - Asking authors to draw a comparison with concurrent work (e.g., work that was published or appeared online **after** the paper submission deadline) or with preliminary work (e.g., a poster or abstract that is not archival), where this comparison informs a lower score by the reviewer.

BenchCouncil Awards (Presented on Bench'20)

- **BenchCouncil Achievement Award**

- This award recognizes a senior member who has made long-term contributions to benchmarking, measuring, and optimizing. The winner is eligible for BenchCouncil Fellow. (\$3000)

- **BenchCouncil Rising Star Award**

- This award recognizes a young researcher, who demonstrates outstanding research and practice in benchmarking, measuring, and optimizing. The winner is eligible for BenchCouncil Senior Member. (\$1000)

- **The BenchCouncil Award Committees make the final decision.**

BenchCouncil Award Committee (2020)

- [Lizy Kurian John](#) (The University of Texas at Austin)
- [D.K. Panda](#) (The Ohio State University)
- [Geoffrey Fox](#) (Indiana University)
- [Tony Hey](#) (Rutherford Appleton Laboratory STFC) (Since 2020)
- [Jianfeng Zhan](#) (BenchCouncil & Chinese Academy of Sciences)

Bench'20 Awards

- **Best Paper Award**

- This award recognizes the highest score paper(s) presented at the Bench conferences. (\$1000)

- **Award for Excellence for Reproducible Research**

- This award encourages reliable and reproducible research using the benchmarks from all organizations. (\$100)

- **The program committees make the final decision.**

Award Overview

- **BenchCouncil Achievement Award**
 - Prof. David J. Lilja, University of Minnesota, Minneapolis
- **BenchCouncil Rising Star Award**
 - Prof. Torsten Hoefler, ETH Zurich
- **Bench'20 Best Paper Award**
 - Characterizing the Sharing Behavior of Applications using Software Transactional Memory
 - swRodinia: A Benchmark Suite for Exploiting Architecture Properties of Sunway Processor
- **Excellence for Reproducible Research**
 - swRodinia: A Benchmark Suite for Exploiting Architecture Properties of Sunway Processor
 - Characterizing the Sharing Behavior of Applications using Software Transactional Memory
 - MAS3K: A Large-scale Benchmark Dataset for Marine Animal Segmentation
- **The session chair will announce and introduce the award winners in detail.**

Conference Program

- 3 Keynote Lectures
 - Prof. David J. Lilja, University of Minnesota, Minneapolis
 - Prof. Torsten Hoefler, ETH Zurich
 - Prof. Kristel Michielsen, Institute for Advanced Simulation, Jülich Supercomputing Centre
- AIBench and its Performance Rankings
- 1 Invited Talks
 - DataBench Toolbox - Dr. Arne J. Berre, Tomás Pariente Lobo, Dr. Todor Ivnaov
- 13 Regular Papers
 - 9 ORAL
 - 4 SPOTLIGHT

Virtual Format

- Keynotes and invited talks will be presented live in Zoom
 - After the talk, participants can ask questions in Slack. The session chair will read each question aloud, after which the speaker can answer it live.
 - After the talk, the discussion on Slack can continue in writing until Nov 18, 2020
 - Keynotes and invited talks will be recorded.
- Regular papers will be presented in Zoom by first playing a pre-recorded video
 - After that, participants can ask questions in Slack. The session chair will read each question aloud, after which the speaker can answer it live.
 - After the talk, the discussion on Slack can continue in writing until Nov 18, 2020. There will be a separate Slack channel for each paper session.

Acknowledgement

- Program Co-chairs Prof. Felix Wolf and Dr. Wanling Gao and other PC members.
- Award Committees
- All speakers and participants
- Thanks for Beijing Academy of Frontier Sciences and Technology for providing financial support

Bench 2021

Will be held in the same time and same place with SC 2021

Call for Paper (Double-blind)!

Thank You!