

BenchCouncil: International Open Benchmarking Council

<http://www.benchcouncil.org>

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Chair of BenchCouncil Executive Committee**

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BenchCouncil

■ International Open Benchmarking Council

- A Non-profit Organization, which aims to promote multi-disciplinary benchmarking research and practice and foster collaboration and interaction between industry and academia.

■ www.benchcouncil.org

■ www.benchcouncil.com

■ Mission

■ Philosophy

■ Procedure

BenchCouncil Mission

- Establish and maintain a repository of benchmark specifications
- Review, shepherd, and release open-source benchmark implementations.
- Publish newsletters and research articles
- Organize conferences, workshops, and teleconferences fostering the transfer of knowledge between industry and academia
- Organize challenges and competition using released benchmarks

BenchCouncil's Philosophy

- **Open, Transparent, and Balanced**
- **Open:** anyone can submit a benchmark proposal. Anyone can contribute to benchmark specification and implementations.
- **Transparent:** any outcome will be published by **TBench**. Each one's contribution will be recorded and publicly available.
- **Balanced:** each working group has to consist of half industry researchers and half academia researchers.

BenchCouncil's Procedure

- Each benchmarking pipeline consists of the following six steps:
 - benchmark proposal
 - formation of working group
 - publish benchmark specifications
 - open-source implementations of benchmark specifications
 - challenges and competitions
 - archive performance numbers.



Balance the industry and academia. Open and Transparent !

Benchmarking Proposals

- Big Data Benchmarking: Applications and Systems
 - *Prof. Geoffrey Fox, Indiana University*
- MLPerf: The Vision Behind an ML Benchmark Suite for Measuring the Performance of ML Software Frameworks, ML Hardware Accelerators, and ML Cloud and Edge Platforms
 - *Prof. Vijay Janapa Reddi, Harvard University*
- DataMotif: A Benchmark Proposal for Big Data and AI
 - *Dr. Wanling Gao, ICT, CAS*
- A Benchmark proposal for Deep Learning Benchmarks
 - *Prof. Xiaoyi Lu, The Ohio State University*
- A Benchmark proposal for Datacenter Computing
 - *Dr. Chen Zheng, ICT, CAS*
- PeakBench: A Benchmark Proposal for Scalable Transaction Processing
 - *Prof. Weining Qian, East China Normal University*
- TS-benchmark: a benchmark proposal for time series databases
 - *Prof. Yueguo Chen, Renmin University of China*
- A Benchmark proposal for large-scale and high-speed spatiotemporal data processing and analytic
 - *Prof. Zhiyuan Chen, Prof. Jianwu Wang, University of Maryland, Baltimore County*

BenchCouncil executive committee

- [Prof. D. K. Panda](#), the Ohio State University
- [Prof. Lizy Kurian John](#), the University of Texas at Austin
- [Prof. Geoffrey Fox](#), Indiana University
- [Prof. Vijay Janapa Reddi](#), Harvard University
- [Prof. Jianfeng Zhan](#), ICT, Chinese Academy of Sciences, University of Chinese Academy of Sciences (Chair)

BenchCouncil Activities

- Conference & Workshops

- Lead the benchmarking research area
- Big Data, AI, Datacenter computing, AI for super computing, IoT, Scalable Transaction processing

- Competition

- Archive performance numbers

Bench Council Conferences

- 9 BPOE workshops

- 510 attendees
- 29 invited talks
- 38 papers

- 1 SDBA workshops

- Bench 18

- Dec 10-11, 2018 Seattle

- New Conference

- Dedicated to benchmarking, measuring, and optimizing complex systems
- Accelerate software & hardware co-design

- Benchmark Proposals

- BenchCouncil Procedure Discussion

Bench Council Conferences

- Host Big Data and AI competitions
- Will release HPC AI ranking this year!
- BenchCouncil 19 (expect 1000 attendees)
 - June 27-29,2019 @Shenzhen, **China**
 - Focus on AI chip, system, algorithms, applications, and benchmarking
- Bench 19
 - Nov 14-16, 2019 @ Denver, Colorado, **USA**
 - Prior to SC 19

CFPS

- Call for papers

- Bench 19

- Nov 14-16, 2019 @ Denver, Colorado, USA

- Call for Benchmark Proposals

- TBench

How to contribute

- Join as member
 - <http://www.benchcouncil.org/html/join.html>
 - Or contact benchcouncil@gmail.com
- Submit new benchmark proposals
- Submit optimizations or new algorithms for BigDataBench
- Participate the competitions

Welcome!

<http://www.benchcouncil.org/html/join.html>