MindSpore

MindSpore TSC Meeting
Dec 17 2020

Antitrust Policy Notice

- MindSpore community meetings involve participation by industry competitors, and it is the intention of the MindSpore community to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable antitrust and competition laws in the member representative's nation or state.

MindSpore Useful Information

- Web site: www.mindspore.cn (Chinese/English Display)
- Gitee: https://gitee.com/mindspore GitHub: https://github.com/mindspore-ai

  iHub:https://code.ihub.org.cn/companies/4vioxkz2
- Mail Lists: https://mailweb.mindspore.cn/postorius/lists/mindspore-tsc.mindspore.cn/
- Logo:
  - https://gitee.com/mindspore/community/blob/master/MindSpore-logo.png
  - https://github.com/mindspore-ai/community/blob/master/MindSpore-logo.png
- Presentation Template:
  - https://gitee.com/mindspore/community/tree/master/slides
  - https://github.com/mindspore-ai/community/tree/master/slides
- Charter:
  - https://gitee.com/mindspore/community/blob/master/governance.md
  - https://github.com/mindspore-ai/community/blob/master/governance.md

Agenda

- Roll Call and Approval for previous minutes
- Community Progress Update
- SIGs/WGs Update
- Release Plan Review
- Operational Matters

Roll Call
(First name alphabetically ordered)

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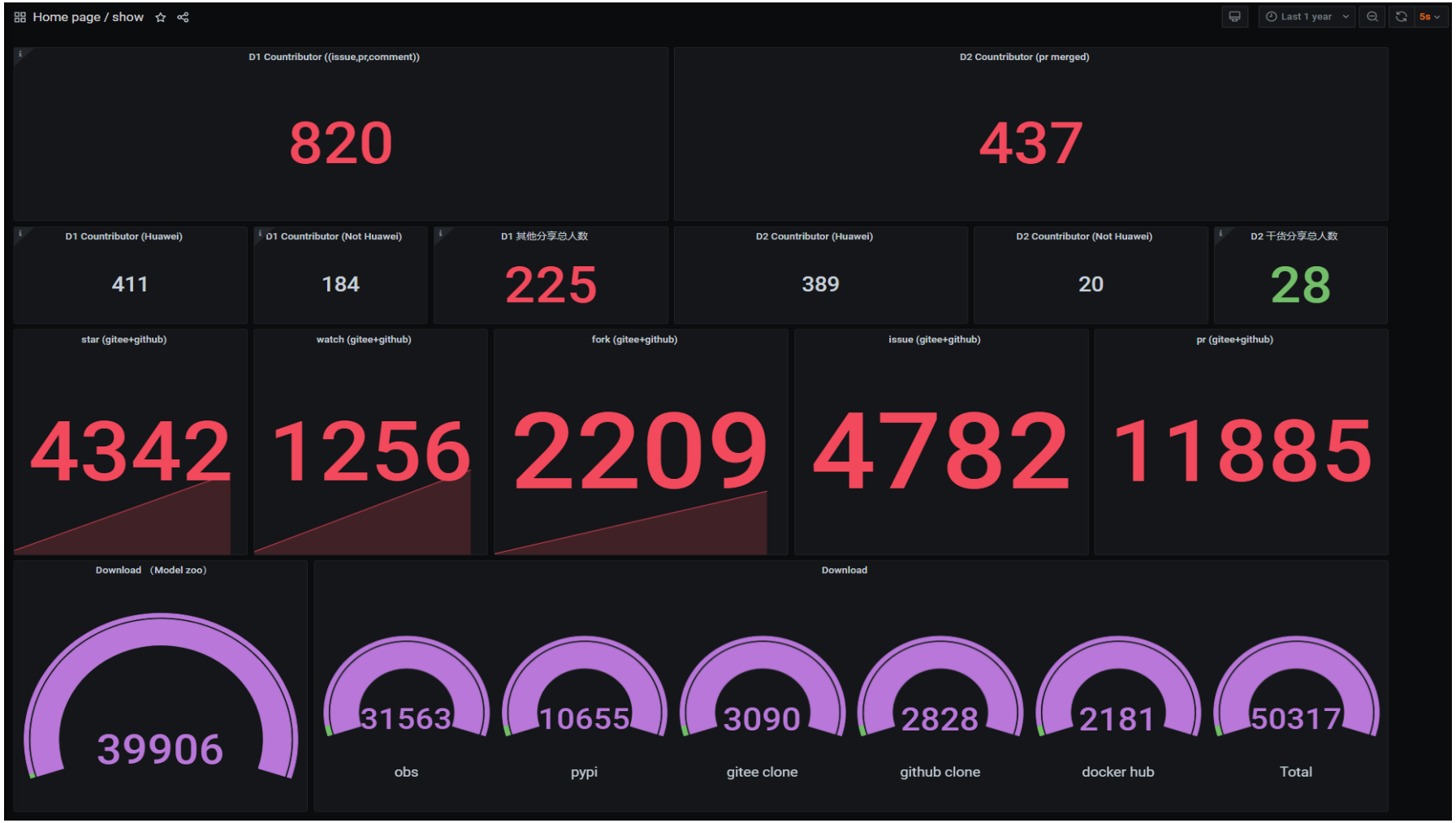
Affiliation	**TSC Member**
University of Edinburgh	Amos Storkey
Conic AI Technology	Han Xiao
ICBC's Big Data and Artificial Intelligence Lab	Jianjun Chen
Tsinghua University	Jun Zhu
University Paris-Sacla	Joel Falcou
Apulis Technology	Jin Li
Huawei	Lei Chen **(Chair)**
Xidian University	Maoguo Gong
Imperial College London	Peter Pietzuch
Key Lab of Intelligent Information Processing of the Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS)	Shiguang Shan
University of Muenster	Sergei Gorlatch
Harbin Institute of Technology	Tonghua Su
University of Science and Technology of China	Xiangyang Li
Peking University/Pengcheng Lab	Yonghong Tian

Approval of previous minute

- All the meeting notes and slides could be found at:
  - ❑ https://github.com/mindspore-ai/community/tree/master/tsc/meeting-notes
  - ❑ https://github.com/mindspore-ai/community/tree/master/tsc/slides

- Nov TSC meeting recording:
  - ❑ https://www.bilibili.com/video/BV1dK4y1Z7Vq

Community Progress Update



Nov: 90k download， 44% growth

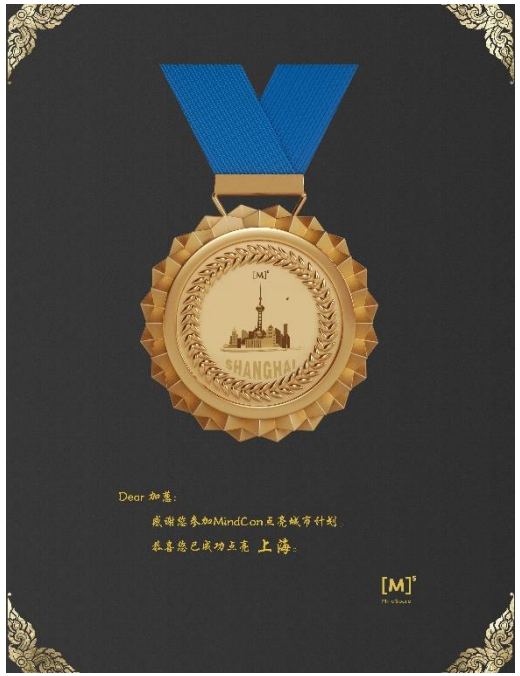
Community Progress Update

http://ascend.gitee.io/playground/

Community Progress Update

MindCon scoring rules:

1. Star: 1star * 10
2. Bugfix: 1bugfix * 100
3. Model: 1model * 200



SIGs/WGs Update

- MindSpore GNN SIG
  - Pull Request: https://gitee.com/mindspore/community/pulls/90
  - MEP: https://gitee.com/mindspore/community/blob/70b73a5e9444f15995ee611f2dea3e8e5a963978/design/meps/mep-gnn/MEP-GNN.md

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Release Plan Review

Su	Mo	Tu	We	Th	Fr	Sa
		1 Coding	2 Coding	3 Coding	4 Coding	5 Release Notes Review
6 Weekend	7 Coding	8 Coding	9 Coding	10 1st Pre-release Testing	11 Coding/Bugfix	12 Coding/Bugfix
13 Weekend	14 Coding/Bugfix	15 Coding/Bugfix	16 Release Video Prepare Start	17 Branch(r1.1) Publish and 2nd Pre-release Testing	18 Bugfix	19 Bugfix
20 Weekend	21 Bugfix	22 Bugfix	23 Bugfix	24 3rd Pre-release Testing	25 Bugfix	26 Bugfix
27 Weekend	28 Bugfix	29 Bugfix	30 Release Publish	31 Release Videos Publish		

Release Plan Review

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- **New models**: GNMT2, BGCF, MaskRCNN, YOLOv4 etc.
- **Frontend**: more checkpoint features and interface changes
- **Auto Parallel**: more optimizers and distributed operators
- **Executor**: ResNet50 and Dynamic shape for GPU, etc.
- **MDP**: new distributions for Ascend and GPU, etc.
- **Dataset**: more data sharing strategies
- **Profiling & Debugger**

MindSpore Lite

- **Converter and runtime**: dynamic shape, more operators
- **ARM backend optimization**: enhanced performance on ARM v8.2 devices
- **OpenCL backend**: new ops
- **Post quantization**
- **Training on Device**

Release Plan Review

MindInsight

- **Precision tuning framework**: support useful checks on weights, gradients etc.
- **Profiler**: support GPU profiling
- **MindConverter**

MindArmour

- **Python API**

GraphEngine

Serving

- **Newly published in v1.1.0**: A lightweight and high-performance service module that helps MindSpore developers efficiently deploy online inference services in the production environment.

Next Step

- MindSpore 1.1.0 Release
- Complete MindCon

THANK YOU