



MindSpore

# MindSpore TSC Meeting

## Dec 17 2020



MindSpore

## Antitrust Policy Notice

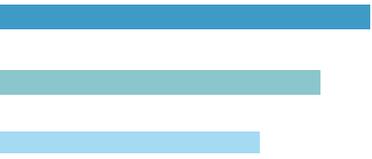
- MindSpore community meetings involve participation by industry competitors, and it is the intention of the MindSpore community to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, 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

## MindSpore Useful Information

- Web site: [www.mindspore.cn](http://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>



MindSpore

## 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)



MindSpore

<u>Affiliation</u>	<u>TSC Member</u>
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 ( <b>Chair</b> )
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



MindSpore

## 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>



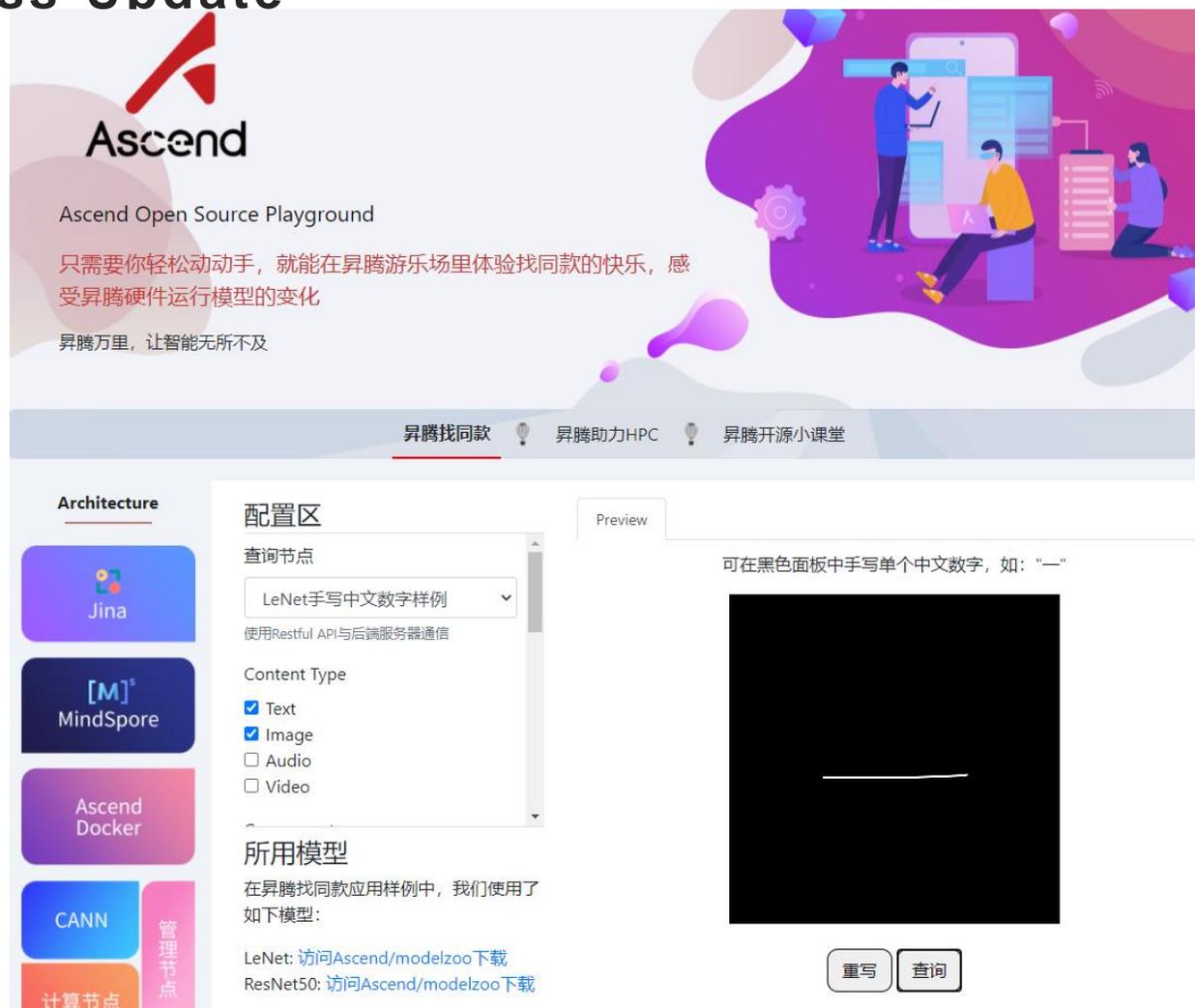
MindSpore

# Community Progress Update



Nov: **90k** download, **44%** growth

## Community Progress Update



The image shows a screenshot of the Ascend Open Source Playground website. At the top left is the Ascend logo. Below it, the text reads "Ascend Open Source Playground" and "只需要你轻松动动手，就能在昇腾游乐场里体验找同款的快乐，感受昇腾硬件运行模型的变化" (Just need you to easily move your hand, you can experience the joy of finding similar items in the Ascend playground, and feel the change of Ascend hardware running models). Below that is the slogan "昇腾万里，让智能无所不及" (Ascend ten thousand miles, let intelligence be everywhere). A navigation bar contains three items: "昇腾找同款" (Ascend Find Similar), "昇腾助力HPC" (Ascend助力HPC), and "昇腾开源小课堂" (Ascend Open Source Small Class). The main content area is divided into three sections: "Architecture" with buttons for Jina, MindSpore, Ascend Docker, CANN, and 计算节点 (Calculation Node); "配置区" (Configuration Area) with a dropdown menu for "LeNet手写中文数字样例" (LeNet handwritten Chinese digit samples) and checkboxes for Content Type (Text, Image, Audio, Video); and "所用模型" (Used Models) with links for LeNet and ResNet50. A "Preview" section shows a blackboard with a white horizontal line and the text "可在黑色面板中手写单个中文数字，如：'一'" (You can write a single Chinese digit on the blackboard, such as '一'). At the bottom of the preview are "重写" (Rewrite) and "查询" (Query) buttons.

**Ascend**

Ascend Open Source Playground

只需要你轻松动动手，就能在昇腾游乐场里体验找同款的快乐，感受昇腾硬件运行模型的变化

昇腾万里，让智能无所不及

昇腾找同款 昇腾助力HPC 昇腾开源小课堂

**Architecture**

- Jina
- MindSpore
- Ascend Docker
- CANN
- 计算节点
- 管理节点

**配置区**

查询节点

LeNet手写中文数字样例

使用Restful API与后端服务器通信

Content Type

- Text
- Image
- Audio
- Video

**所用模型**

在昇腾找同款应用样例中，我们使用了如下模型：

LeNet: [访问Ascend/modelzoo下载](#)

ResNet50: [访问Ascend/modelzoo下载](#)

Preview

可在黑色面板中手写单个中文数字，如：“一”

重写 查询

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

# Community Progress Update

**MINDCON 极客周**  
点亮城市 · 模型大赛

**MIND THE BUG**  
**SPORE THE MODEL**

12月14日 上海	12月15日 长沙	12月16日 武汉
12月17日 杭州	12月18日 北京	12月19日 南京
12月20日 郑州	12月21日 山东	12月22日 重庆
12月23日 苏州	12月24日 广州	12月25日 深圳

12月26日 上海临港颁奖

MindCon报名通道  
扫描下方二维码报名

**MSG · 上海**  
技术研论 / 极客分享 / 社区贡献

12月14日  
活动时间

»» 特邀嘉宾:

**王敏捷**  
主题: BUILDING EFFICIENT SYSTEMS FOR DEEP LEARNING ON GRAPHS

> 组织者:

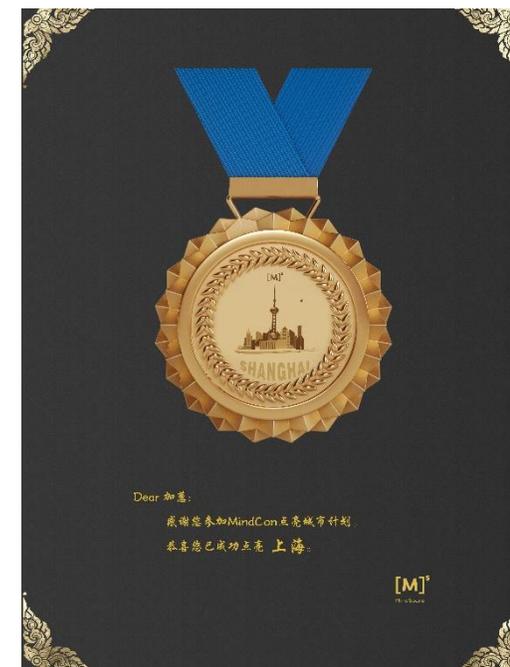
**丁一** **王敏捷**

普惠MindSpore, 你我同行

**BUGFIX福利**

## MindCon scoring rules:

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





MindSpore

## 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>

## 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		



MindSpore

## Release Plan Review

### MindSpore

- **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**



MindSpore

## Release Plan Review

### MindInsight

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

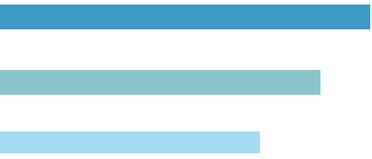
### MindArmour

- **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



MindSpore

THANK YOU

MindSpot