

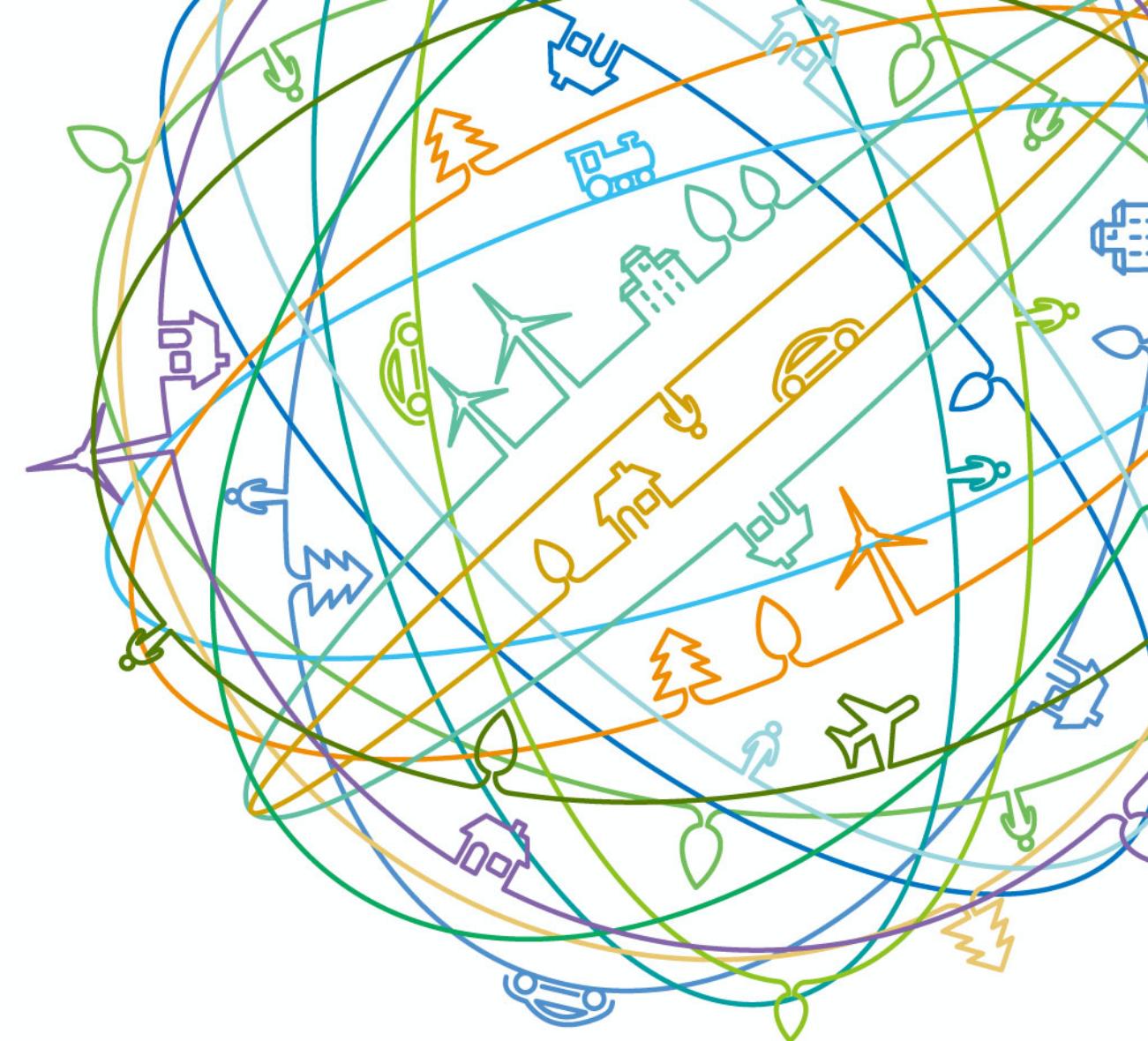
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自动微分



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Building a better connected world



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关于本课程

1. 课程背景

- AI框架中自动微分的重要性

2. 课程内容

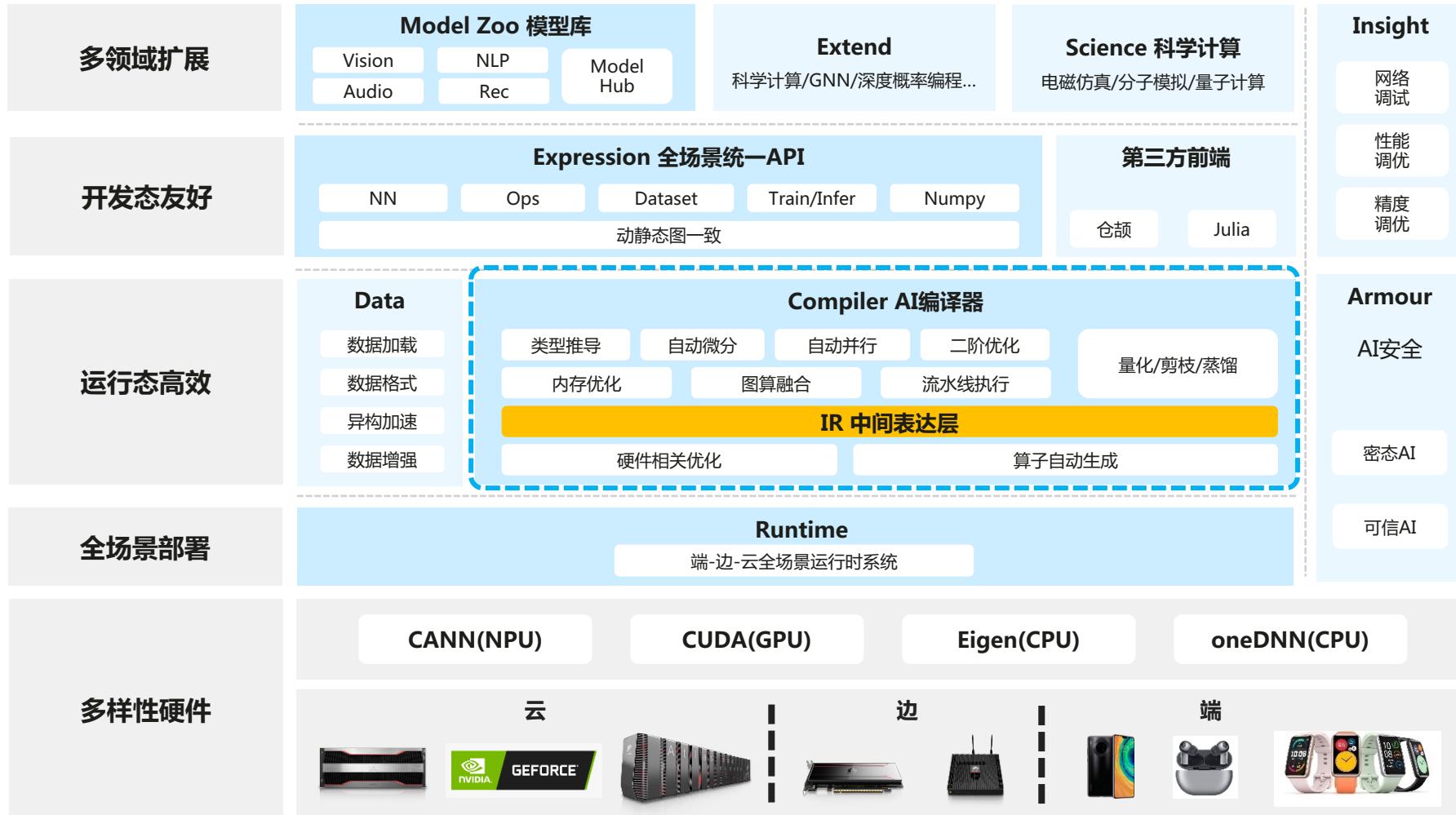
- 微分基本概念：数值微分 - 符号微分 - 自动微分
- 自动微分模式：前向微分 – 后向微分 – 雅克比原理
- 具体实现方式：表达式或图 – 操作符重载OO – 源码转换 AST
- 手把手实现：基于表达式的前向自动微分
- 手把手实现：基于OO的反向自动微分
- 自动微分的未来挑战

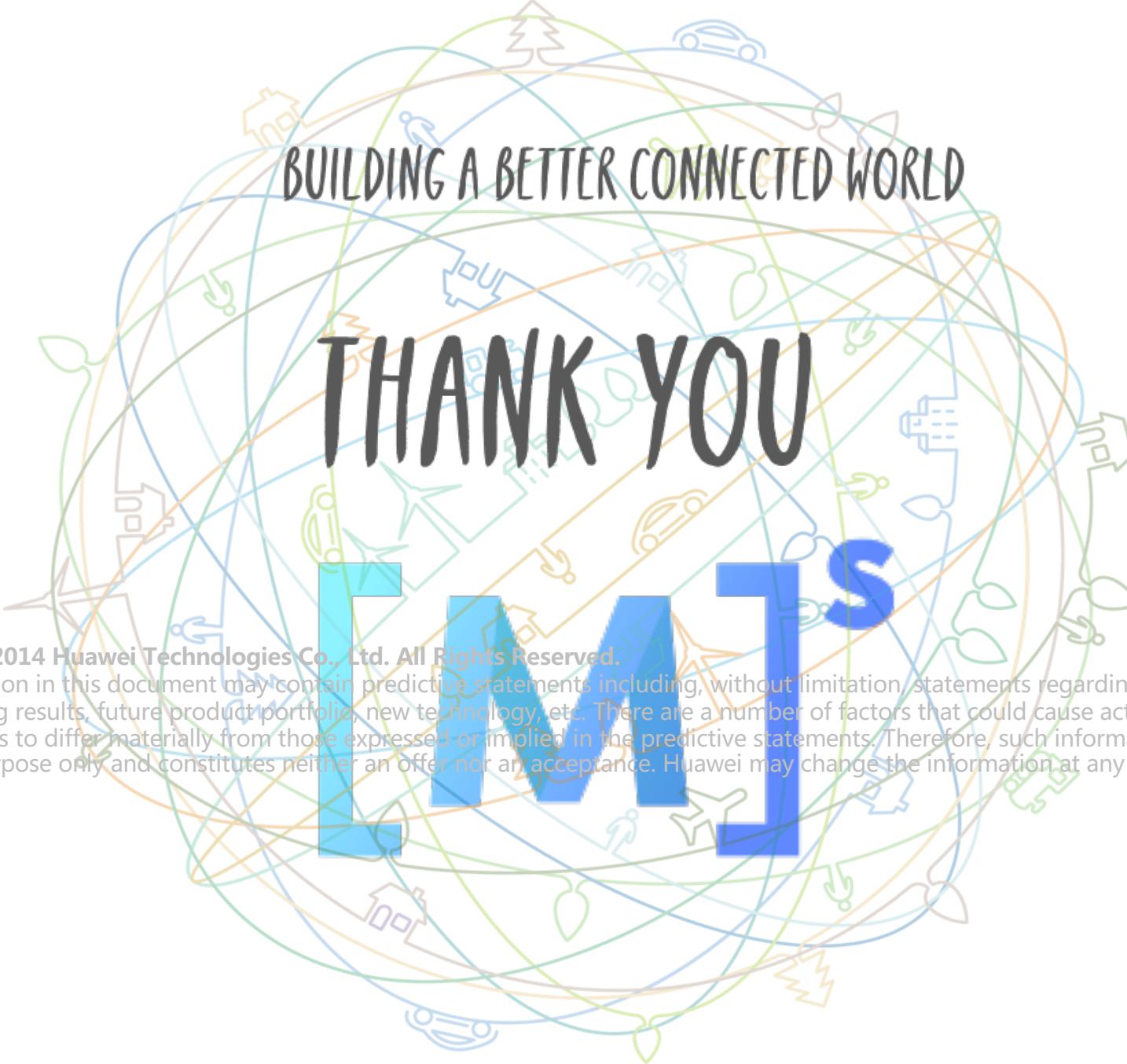
学完本课程后，您将能够：

1. 了解到AI框架实现中最重要的自动微分原理
2. 知道全场景AI框架MindSpore的具体实现方式
3. 自动微分的技术未来发展动向与面临的挑战

MindSpore 全场景AI计算框架 架构图

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THANK YOU

TEAM

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