

# 数智时代的 图书馆服务新纪元 ——AI赋能学术研究

The New Era of Library Services in the Age of Intelligence and Data  
— AI Empowering Academic Research

刘博  
2025.5

# CONTENT

- 01 关于 *iGroup*
- 02 数智时代的特征与挑战
- 03 *iGroup*的全链条产品矩阵
- 04 关于 *Charleston* 会议

# PART 01

# 关于iGroup

About iGroup



- 1983年成立，在全球14个国家和地区都设有办事处，超过1600名员工，是亚太地区最大的学术和科研资讯服务提供商之一。

- 2001年，iGroup中国（长煦信息技术咨询（上海）有限公司）成立。办公室：北京，上海，广州，西安，重庆

- 使命：汇聚全球资讯，助力学术科研

- 目标：致力于成为信息服务的领导者

- 服务对象：高校图书馆/科研院所/政府机构/企业/.....

- 核心事业：图书代理与出版/数据库代理与出版/数字图书馆解决方案/行业资讯提供及图书馆员继续教育服务

- 目前，iGroup公司代理了来自全球140余个出版社的数据库产品

## PART 02

# 数智时代的特征与挑战

About iGroup

## 第一次工业革命

蒸汽时代（1760-1840）

机械化

近100年

动力与运力

## 第二次工业革命

电气时代（1840-1950）

电气化

近50年

电力

## 第三次工业革命

信息时代（1950-?）

电子化

近40年

通信

- 互联网
- 云计算

信息化

近30年

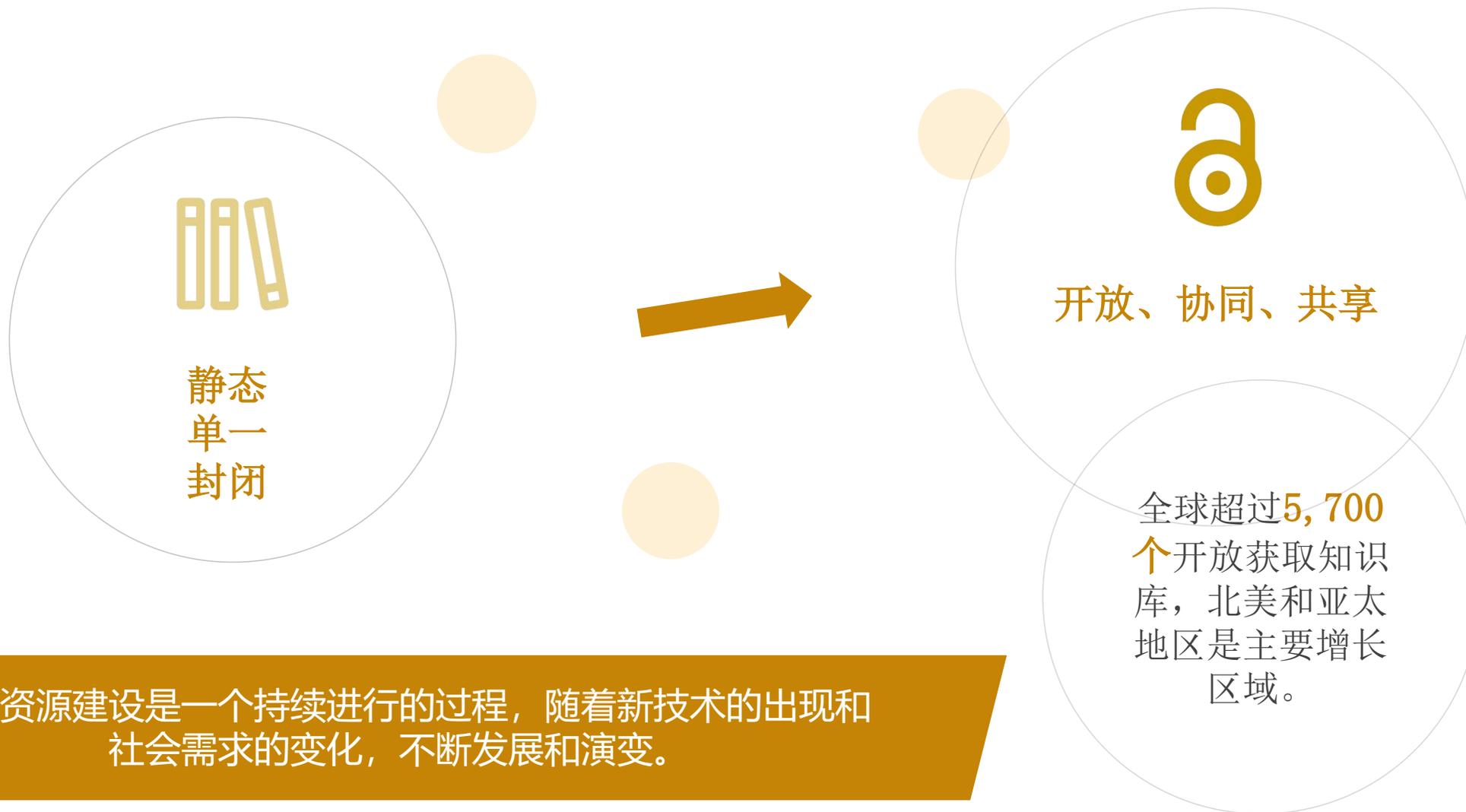
信息

- 数据
- 算力
- 人工智能

数字化  
+  
智能化?

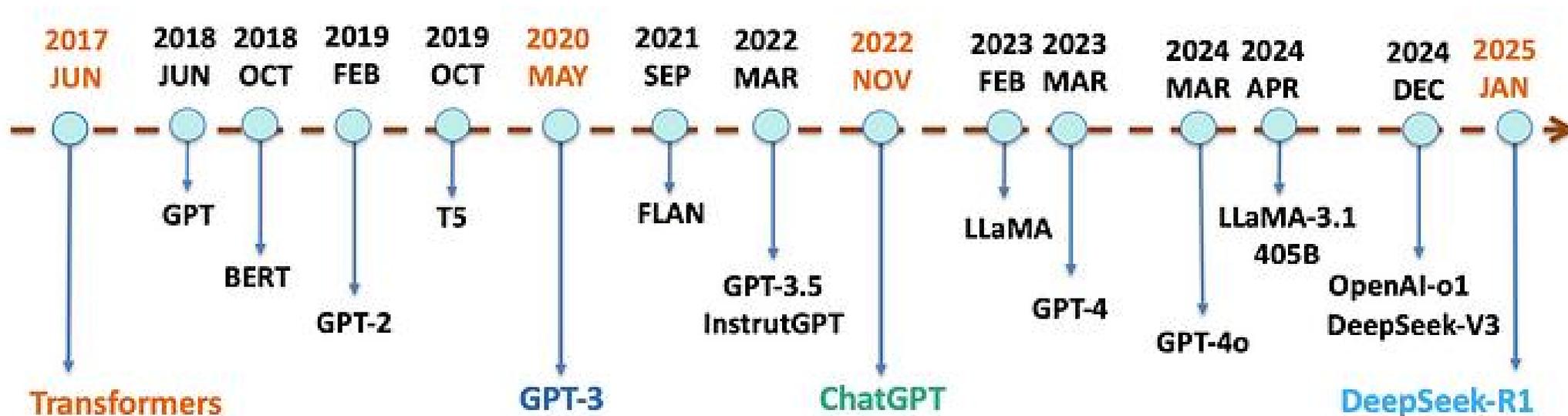
数据与智力

**数智时代**——以数字化、智能化为特征的新技术革命和产业变革时代。在这个背景下，数据和智能成为推动发展的关键要素。在科研领域本质就是数据和智能的深度解读、发现与转化应用。



文献资源建设是一个持续进行的过程，随着新技术的出现和社会需求的变化，不断发展和演变。

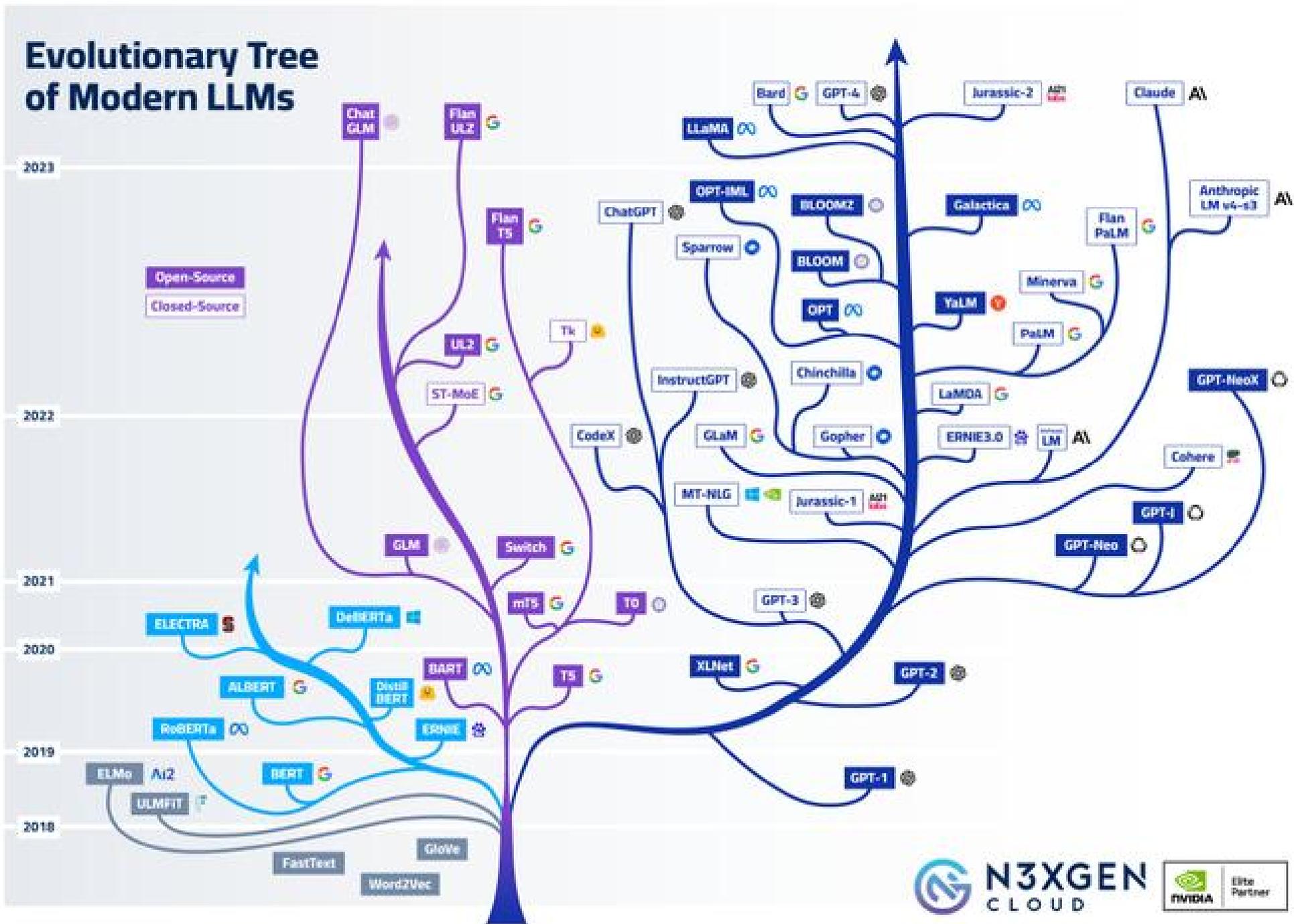
## A Brief History of LLMs





A

# Evolutionary Tree of Modern LLMs



# AI技术的高

API PROVIDER ↑↓	MODEL ↑↓	CONTEXT WINDOW ↑↓	ARTIFICIAL ANALYSIS INTELLIGENCE INDEX ↑↓
 OpenAI	 o4-mini (high)	200k	70
 Microsoft Azure	 o4-mini (high)	200k	70
 Google	 Gemini 2.5 Pro Preview	1m	68
 xAI	 Grok 3 mini Reasoning (high)	131k	67
 OpenAI	 o3-mini (high)	200k	66
 Microsoft Azure	 o3-mini (high)	200k	66
 OpenAI	 o3-mini	200k	63
 Microsoft Azure	 o3-mini	200k	63
 OpenAI	 o1	200k	62
 Microsoft Azure	 o1	200k	62
 Lambda	 DeepSeek R1	164k	60
 deepseek	 DeepSeek R1	64k	60
 Hyperbolic	 DeepSeek R1	128k	60
 aws	 DeepSeek R1	128k	60





## 《Nature》

- 称近 30% 的科研人员曾使用生成式 AI 工具辅助撰写论文；约 15% 的人表示曾使用这些工具帮助撰写科研经费申请书。
- 三种在学术写作中使用ChatGPT的方法

## 欧洲研究委员会（ERC）

75% 认为生成式 AI 工具将减少语言障碍，85%可承担重复或劳动密集型任务，如文献综述等；38% 的人认为AI 将提高科学生产力。

## 大模型的不足之处



### 高门槛

- 成本门槛——随着token的消耗而产生巨大的费用，自建和自训练大模型则对计算资源需求高。
- 技术门槛——安全，维护难度上均有较高的要求。
- 使用门槛——需要学会如何提问、指引、提供资料等才会获得相对合理答案。



### 知识限制

大语言模型的预训练数据来大部分来自互联网，且有截止日期，因此无法回答，尤其在特定领域的最新知识相关的提问。



### 幻觉问题

尽管大语言模型在很多方面表现出色，但也可能会生成不准确的回答，特别是在处理专业领域的问题时或生成相关信息时，经常产生“幻觉 (illusion)”，从而误导用户。



## 认知挑战

如何及时、准确、深入地了解最新的科技动态？

图书馆需系统掌握AI基本原理与发展趋势，提升馆员的数字素养与技术判断力，以应对快速演进的技术环境。



## 应用挑战

如何利用好AI为图书馆服务升级？

如何将AI有效融入资源管理、智能推荐与用户服务等核心业务，提升服务效能的同时，兼顾数据隐私与伦理风险控制。



## 角色转变挑战

如何完成图书馆员的角色升级？

图书馆员正从传统的被动“支撑者”向主动“引导者”转型，需通过AI赋能，主动洞察用户需求，输出多样化、个性化的信息服务，实现服务模式的重构与价值提升。

## PART 03

# *iGroup*的全链条产品矩阵

About the requirements

01.

## 流程优先于功能

搞懂用户优先于搞定技术，设计并不断完善完善服务流程方法论能够指引我们更好地在千变万化的数智时代保持宗旨和方向，无论采用何种技术，流程提供最合适的服务的保障。

02.

## 组合式的产品与服务

利用好原有的优质学术资源，通过AI赋能自研产品，同步提供线上/下的咨询服务。即，内容+产品+服务的3合一模式，为客户提供更高附加值的系列服务。

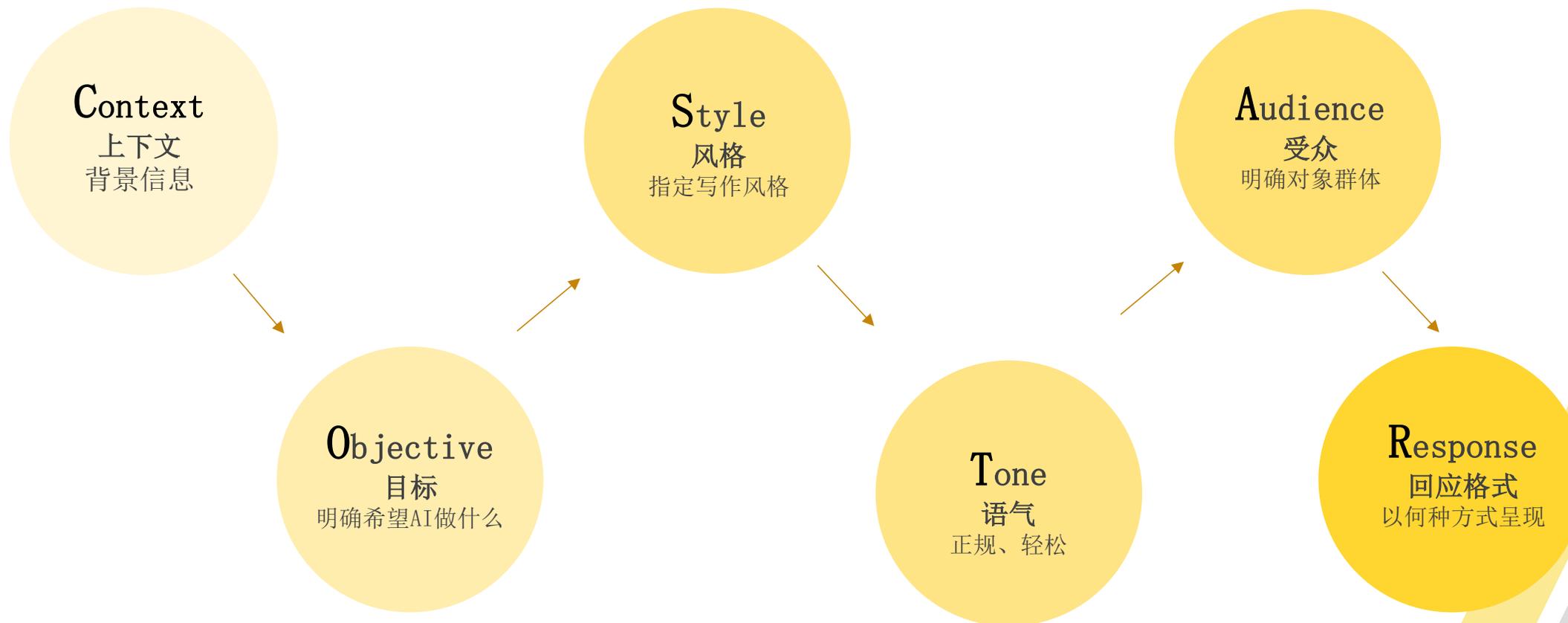
03.

## 聚焦学术支持创新

聚焦学术研究场景，深挖用户痛点，围绕科研人员日常研究提供贴合实际的功能和服务。

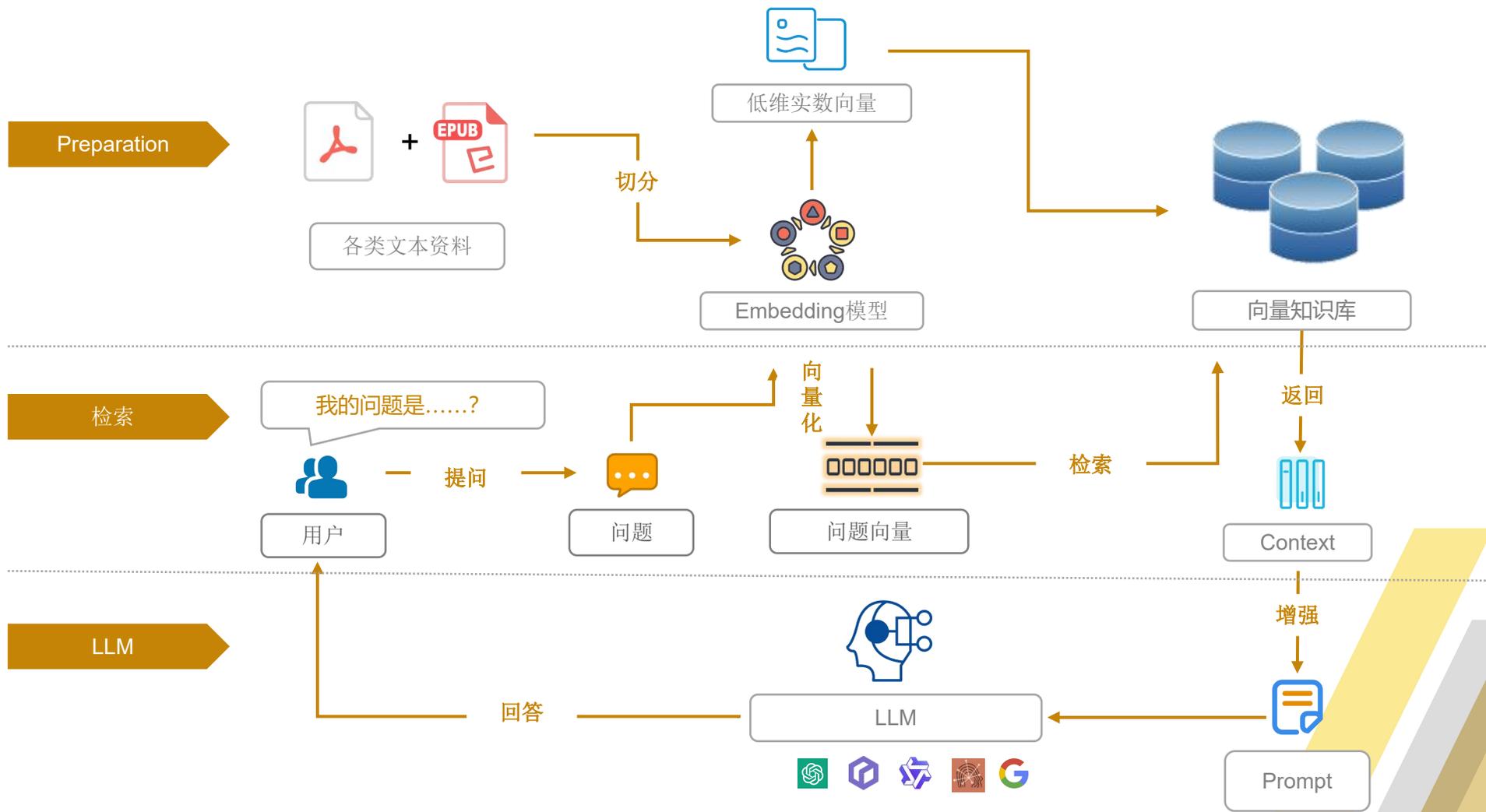
## 提示词工程+ RAG

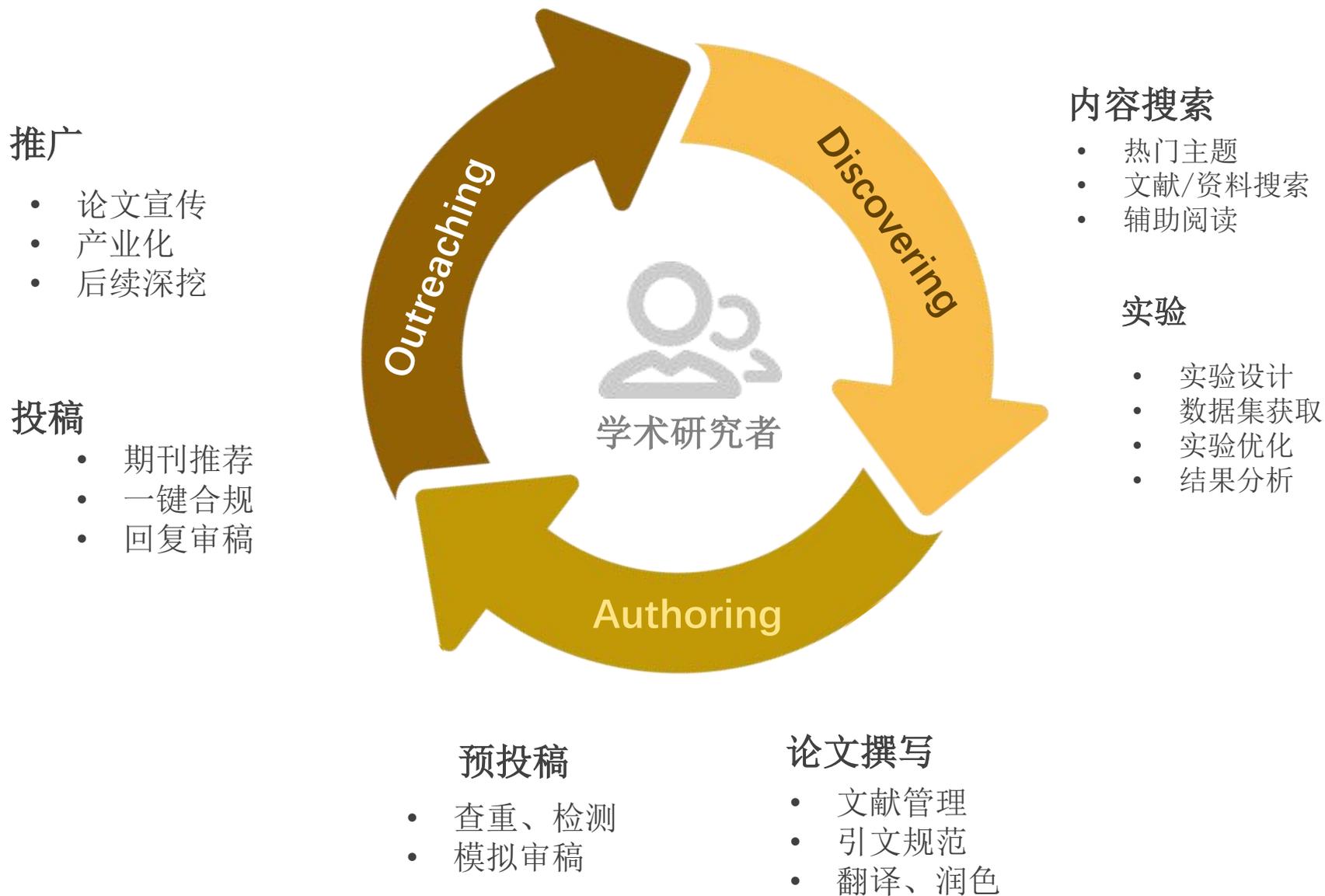
### COSTAR 提示词框架

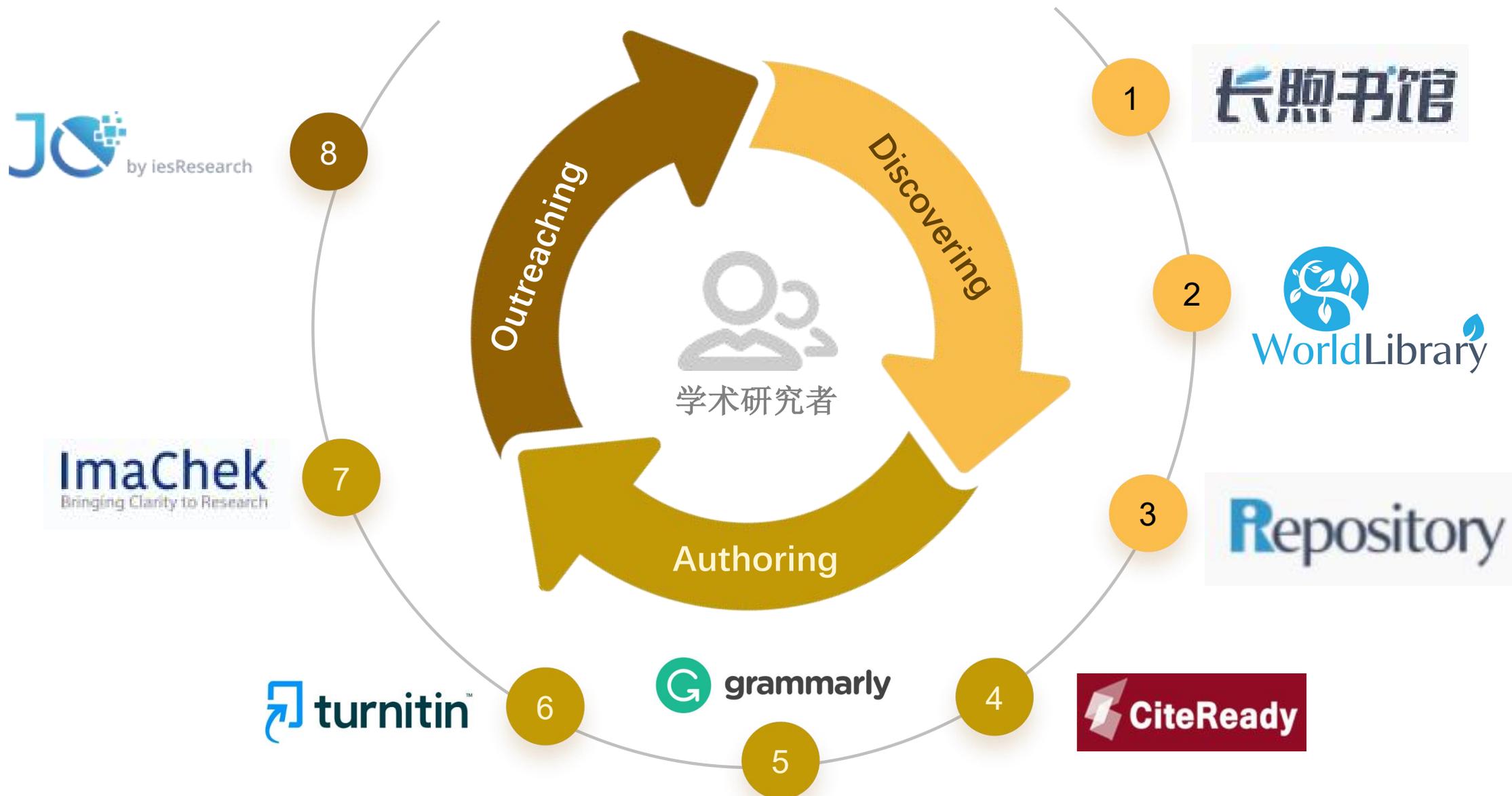


## 提示词工程+ RAG

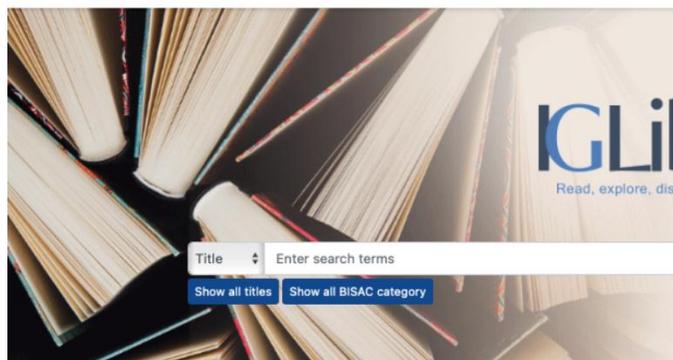
- ✓ 准确、可靠
- ✓ 减少幻觉
- ✓ 成本效益
- ✓ 灵活调用各类 LLM







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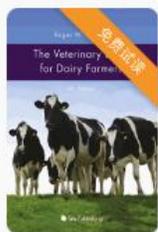
智能搜索  How to use AI tools to empower small business?

### 最新发布

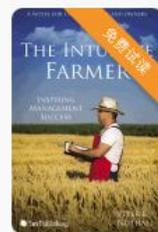
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The veterinary laboratory and...



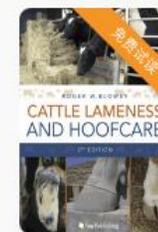
The veterinary book for dairy...  
Blowey, Roger



The intuitive farmer: inspiring...  
Nuthall, Peter



So you want to be a vet: the realistic...  
Paton, Neil



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Blowey, Roger



Equine behaviour in mind: applyin...  
Rogers, Suzanne



### 新闻与活动

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智能搜索



How to use AI tools to empower small business?

## 关键字检索

vs.

## 语义检索

全球变暖 珊瑚礁 生物多样性 长期影响



主题? 焦点?  
关注点? 时间  
尺度?

### 结果:

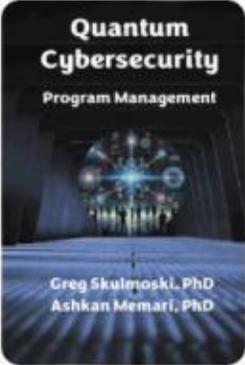
- 全球变暖对珊瑚礁的影响
- 珊瑚礁生物多样性研究方法
- 长期气候变化与海平面上升
- 生物多样性保护策略

这些结果虽然都包含了部分关键词,但并不都直接回答研究问题。

### 结果:

- 过去50年全球气候变化导致的珊瑚物种组成变化研究
- 海洋酸化对珊瑚礁生态系统多样性的长期影响分析
- 气候变化情景下珊瑚礁生物多样性未来预测模型
- 热带珊瑚礁生态系统对海水温度上升的适应性研究

更好地理解复杂的研究问题, 提供更有针对性和学术价值的结果。它不仅能找到直接相关的研究, 还能联系相关的方法论和跨学科视角。



## Quantum cybersecurity program management

Skulmoski, Gregory, Memari, Ashkan

Business Expert Press | English | 216 页 | 2025

Quantum technology interest is accelerating for two key reasons: first, quantum technologies promise transformative capabilities. Indeed, quantum computing is seen as a strategic necessity by the world's leading economies. Second, experts unanimously agree that a cryptographically-releva..

★ ★ ★ ★ ★ 0

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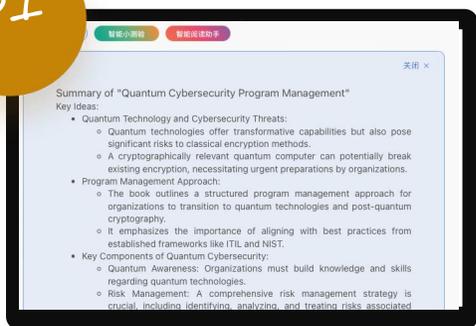
翻译

智能摘要 智能小测验 智能阅读助手

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01

### 智能摘要



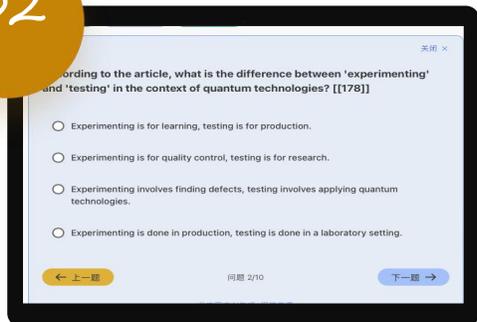
Summary of "Quantum Cybersecurity Program Management"

Key Ideas:

- Quantum Technology and Cybersecurity Threats:
  - Quantum technologies offer transformative capabilities but also pose significant risks to classical encryption methods.
  - A cryptographically relevant quantum computer can potentially break existing encryption, necessitating urgent preparations by organizations.
- Program Management Approach:
  - The book outlines a structured program management approach for organizations to transition to quantum technologies and post-quantum cryptography.
  - It emphasizes the importance of aligning with best practices from established frameworks like ITIL and NIST.
- Key Components of Quantum Cybersecurity:
  - Quantum Awareness: Organizations must build knowledge and skills regarding quantum technologies.
  - Risk Management: A comprehensive risk management strategy is crucial, including identifying, analyzing, and treating risks associated

02

### 智能小测验



According to the article, what is the difference between 'experimenting' and 'testing' in the context of quantum technologies? [[178]]

- Experimenting is for learning, testing is for production.
- Experimenting is for quality control, testing is for research.
- Experimenting involves finding defects, testing involves applying quantum technologies.
- Experimenting is done in production, testing is done in a laboratory setting.

← 上一题 问题 2/10 下一题 →

03

### 阅读助手



Hello! I'm your reading assistant. Feel free to ask me anything about this book—I can summarize, share background knowledge, and explain any terms you don't understand. Happy reading!

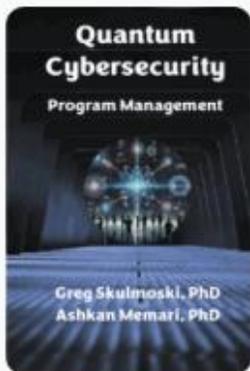
请问本书的重点是什么?

这本书的重点在于它深入探讨了量子计算与网络安全相遇的复杂世界，并从项目管理的角度，为专业人士提供了管理向抗量子网络安全低架过渡的实用指南，以及在快速发展的领域中保持领先地位的方法。此外，本书还提供了规划、实施和优化量子技术的坚实指导，适合希望为量子计算时代的机遇和影响做好准备的组织。

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## Quantum cybersecurity program management

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Skulmoski, Gregory, Memari, Ashkan

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Business Expert Press | English | 216 页 | 2025

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翻译

智能摘要

智能小测验

智能阅读助手

关闭 ×

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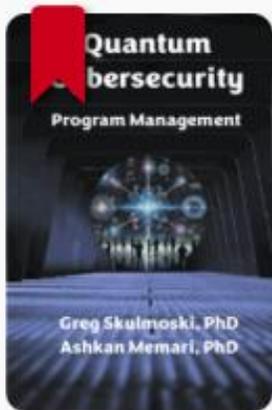
How can

01

智能推荐

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★★★★★ 0

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全文

Business Expert Press | 英语 | 216 页 | 2025

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根据文章，量子技术实验和量子技术测试的主要区别是什么? [[178]]

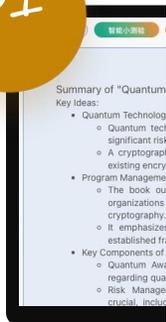
- 实验是在生产环境中进行的质量控制活动，而测试是在实验室环境中学习量子技术能力。
- 实验是在实验室环境中学习量子技术能力，而测试是确定技术是否适合用途并提供预期价值的质量控制活动。
- 实验和测试都是质量控制活动，没有区别。
- 实验是项目经理的职责，而测试是技术团队的职责。

← 上一题

问题 1/10

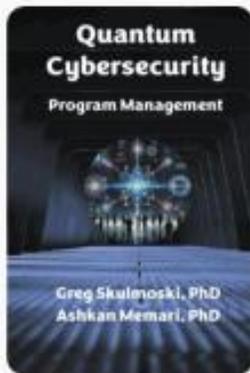
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01



助手





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帮我总结这本书的逻辑



这本书的逻辑是：首先介绍量子计算带来的网络安全风险，然后讨论组织如何通过量子过渡策略、项目管理和计划来应对这些风险，最终实现量子网络安全准备。

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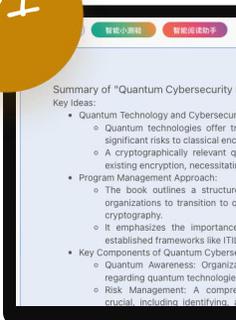
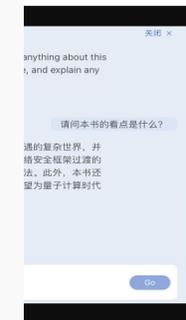
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智能

01

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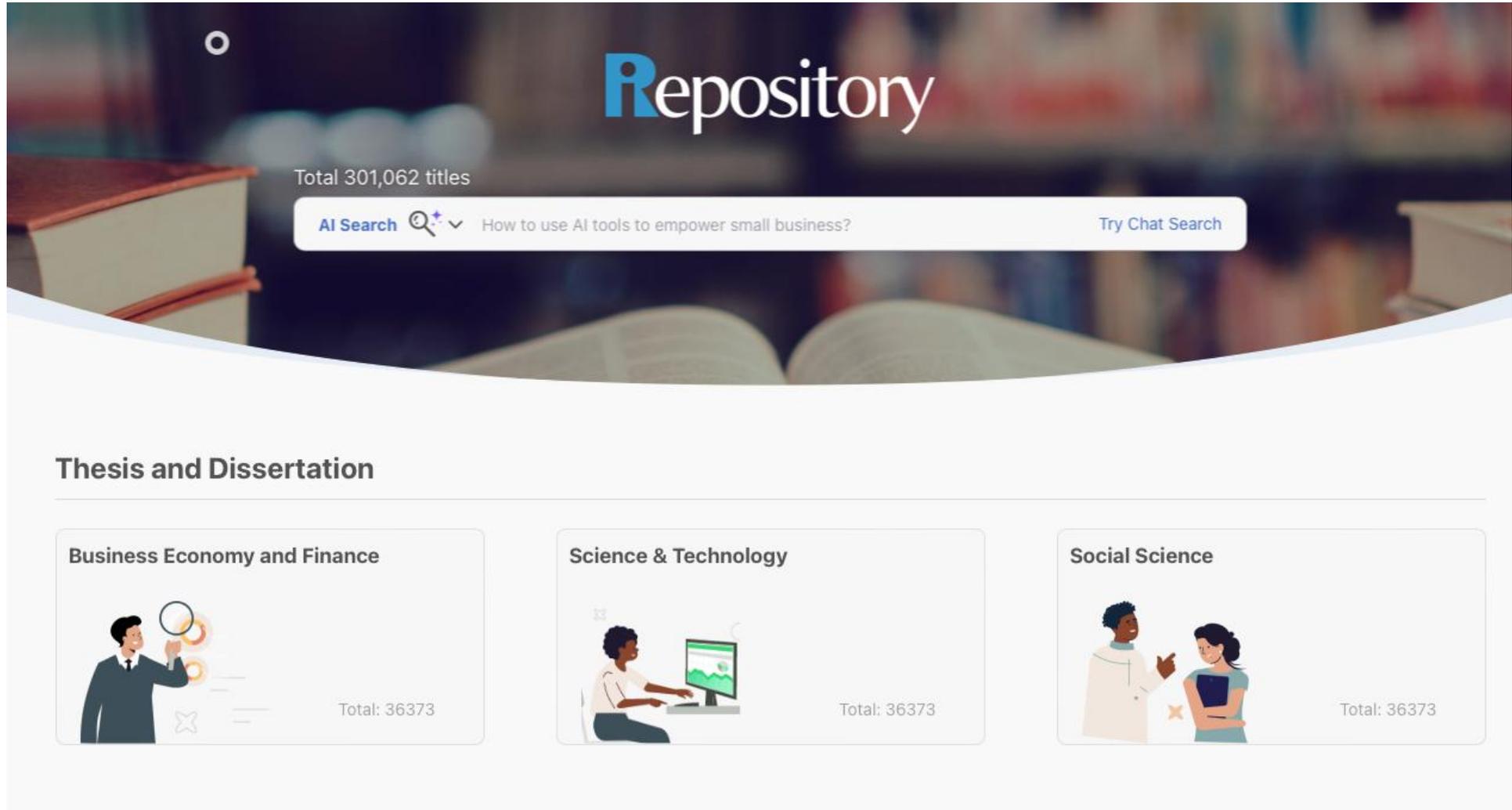
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<input type="checkbox"/>	Book Whole	An Introduction to Electrospinning and Nanofibe...	Ramakrishna, Seeram Worl...	2005
<input type="checkbox"/>	Patent	Apparatus and method for anchoring sutures	C. BARTLETT EDWIN F. WE...	2006
<input type="checkbox"/>	Patent	Astronaut's work station device	Paton, Boris E Kryukov, Val...	1996
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<input type="checkbox"/>	Web page	Brief introduction to Kudos		2014
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<input type="checkbox"/>	Journal Article	Control of immunologically crossreactive leptosp...	Matsuo, K Isogai, E Araki, Y	2000
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<input type="checkbox"/>	Web page	Engadget		
<input type="checkbox"/>	Web page	Eye Contact Secures Dogs' Place in Human Heart		2015
<input type="checkbox"/>	Journal Article	GPT understands, too	Liu, Xiao Zheng, Yanan Du, Z...	2023
<input type="checkbox"/>	Patent	Game controller simulating a musical instrument	Brosius, Eric Egozy, Eran H...	2007
<input type="checkbox"/>	Journal Article	Hypoxic microenvironment as a cradle for melan...	Michaylira, Carmen Z Naka...	2006
<input type="checkbox"/>	Book Whole	Immunology, Infection, and Immunity (Hardcover)	Pier, Gerald B Lyczak, Jeffre...	2004
<input type="checkbox"/>	Journal Article	Influences of reduced masticatory sensory input ...	Tsutsui, Keisuke Kaku, Mas...	2007

On the right side of the interface, there is a video player showing a TEDx talk titled "A Curriculum on Medical Ignorance: Marlys Witte at TEDxBloomington". Below the video player, there are sections for "Notes", "Tags", "Links", "Flag", "Also in", and "Videos".



- **写作:**

输入关键词提示, Grammarly 会立即根据提示撰写文章, 几秒钟后即可输出草稿;

- **改写:**

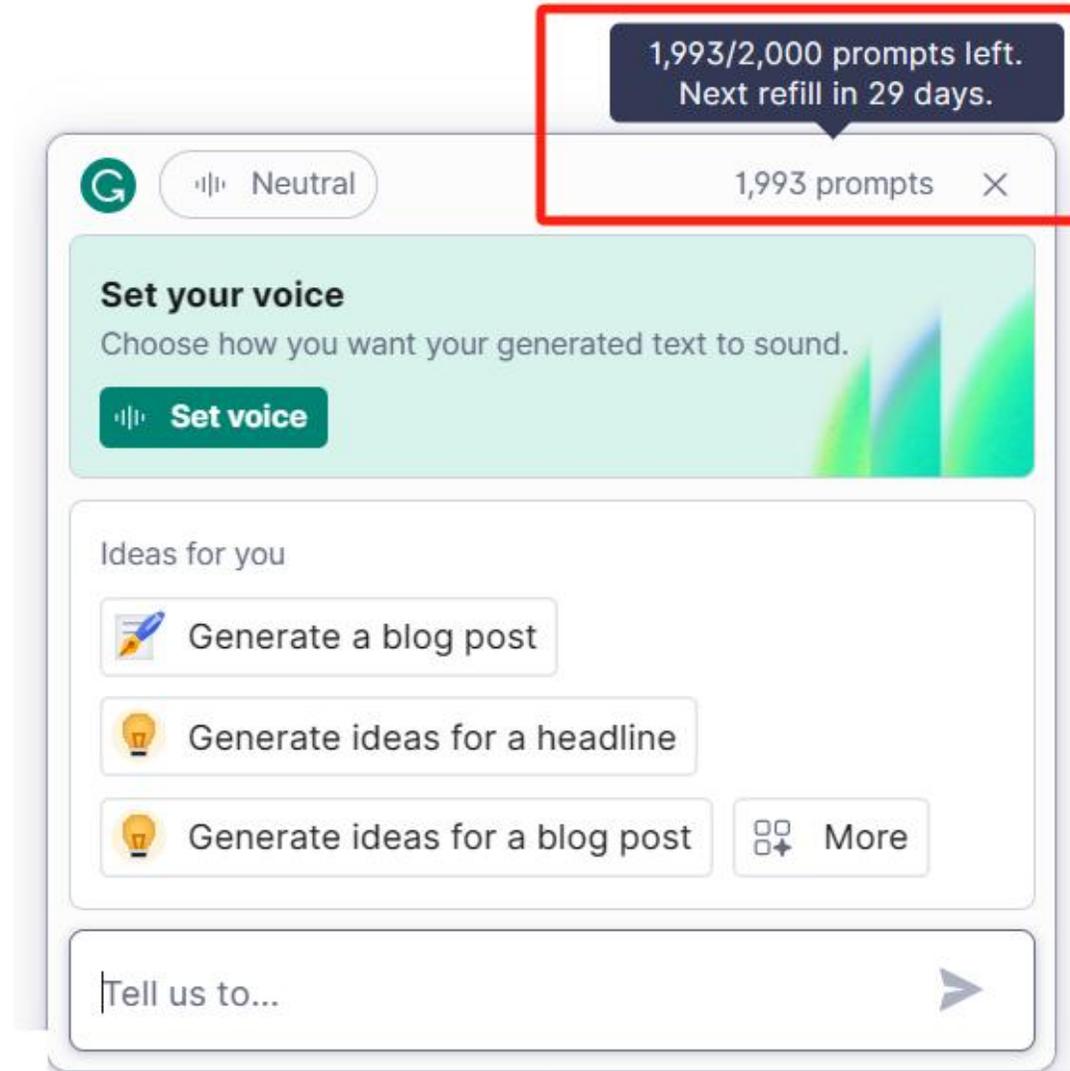
根据选择的语气、清晰度或长度即时生成新的写作文本;

- **审稿回复:**

Grammarly 会使用您收到的电子邮件中上下文生成即时回复, 并将发件人姓名和主题等整合到回复中。

- **伴随提示:**

输入提示, Grammarly 即可生成提纲或草稿, 还可以为用户  
提供建议, 改进写作。





## 出版机构（独家）

来自 **CrossRef** 联盟的 **1500** 多家全球顶尖学术出版机构的期刊、会议录和图书等。

- American Chemical Society
- American Physical Society
- Elsevier
- IEEE
- Lippincott Williams & Wilkins
- Nature Publishing
- Ovid
- Oxford University Press
- Sage Publications
- Springer
- Taylor & Francis
- Wiley Blackwell

## 网络

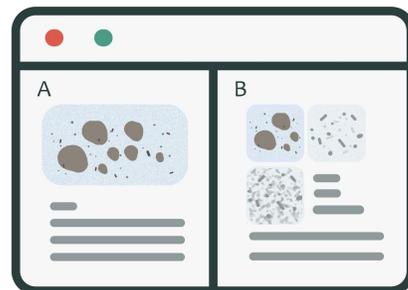
**470亿** 个 网页记录  
**5000万** 个 每日增加  
**3.0 亿** 页 每日更新

## PQDT博硕士论文全文数据库

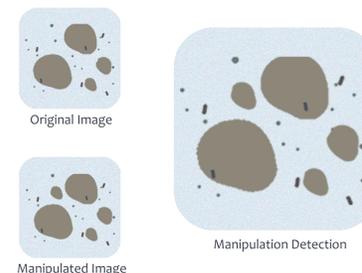
收录来自全球**60**多个国家**4100**所大学的数百万学位论文



## 图片查重



## 图片篡改检测



- 一项研究对生物医学领域的论文进行了分析，发现其中约**9%**的论文包含高度重复的图像。在 **PubMed** 数据库中，约有 **3.5万** 篇论文存在严重的不当图片重复使用，可能需要撤稿。
- **ImaChek** 针对科学研究中的图像问题的自研产品。可以检测图像的相似性，以及是否存在复制、粘贴、删除等人工修改痕迹，从而识别论文中是否有重复使用的图片或不当处理；
- 针对生物医疗的**200万**精选图片库；
- 支持本地化部署。

79 records found for "Nature"



Refine Compare

Search for publisher or category...

Publishers

Subject Category

- Nature and Landscape Conservation (7)
- Ecology, Evolution, Behavior and Systematics (7)
- Biochemistry, Genetics and Molecular Biology (7)
- Medicine (7)
- Ecology (6)
- Cell Biology (6)
- Agricultural and Biological Sciences (4)
- Environmental Science (4)
- Social Sciences (4)
- Bioengineering (4)
- Genetics (4)
- Electronic, Optical and Magnetic Materials (4)
- Article Processing Charges (APC) range

Refine

Sort by Title (A-Z) 10

1 2 3 4 5

## Capitalism, Nature, Socialism

ISSN: 1045-5752  
Published by Taylor and Francis Ltd.

### Top 5 fields of study

1. Political science 2. Sociology 3. Law 4. Politics 5. Philosophy

### Subject category:

Geography, Planning and Development  
Political Science and International Relations  
Management, Monitoring, Policy and Law

255 publications  
656 times cited  
2.6 Citation (mean)  
3960 references count  
SJR Best Quartile : Q1  
International Collaboration: 10.4  
\$ N/A € N/A £ N/A  
[more](#)

## Digital Evidence and Electronic Signature Law Review

ISSN: 1756-4611  
Published by Vlex

### Top 5 fields of study

1. Computer science 2. Business 3. Political science 4. Law 5. Engineering

### Subject category:

Law

103 publications  
45 times cited  
0.4 Citation (mean)  
1 references count  
SJR Best Quartile : Q3  
International Collaboration: 16.7  
\$ N/A € N/A £ N/A  
[more](#)

## Discrete Dynamics in Nature and Society

ISSN: 1026-0226  
Published by Hindawi Publishing Corporation

### Top 5 fields of study

1. Computer science 2. Mathematics 3. Business 4. Economics  
5. Artificial intelligence

### Subject category:

Modeling and Simulation

2,099 publications  
6,531 times cited  
3.1 Citation (mean)  
51638 references count  
SJR Best Quartile : Q3  
International Collaboration: 12.8  
\$ N/A € N/A £ N/A  
[more](#)

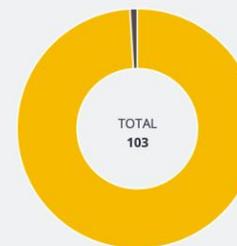
## Fields of study

### Fields of study (top 20) Publications (%)

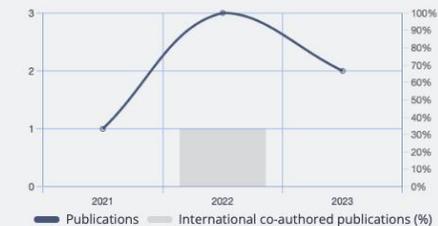
Computer science	61 (8.3%)
Business	41 (5.5%)
Political science	36 (4.9%)
Law	34 (4.6%)
Engineering	32 (4.3%)
BATES	27 (3.6%)
Aeronautics	24 (3.3%)
Operations management	19 (2.6%)
Process (computing)	17 (2.3%)
World Wide Web	
Electronic signature	



Gold 99.0%  
Unknown 1.0%



## Publications (all) by year



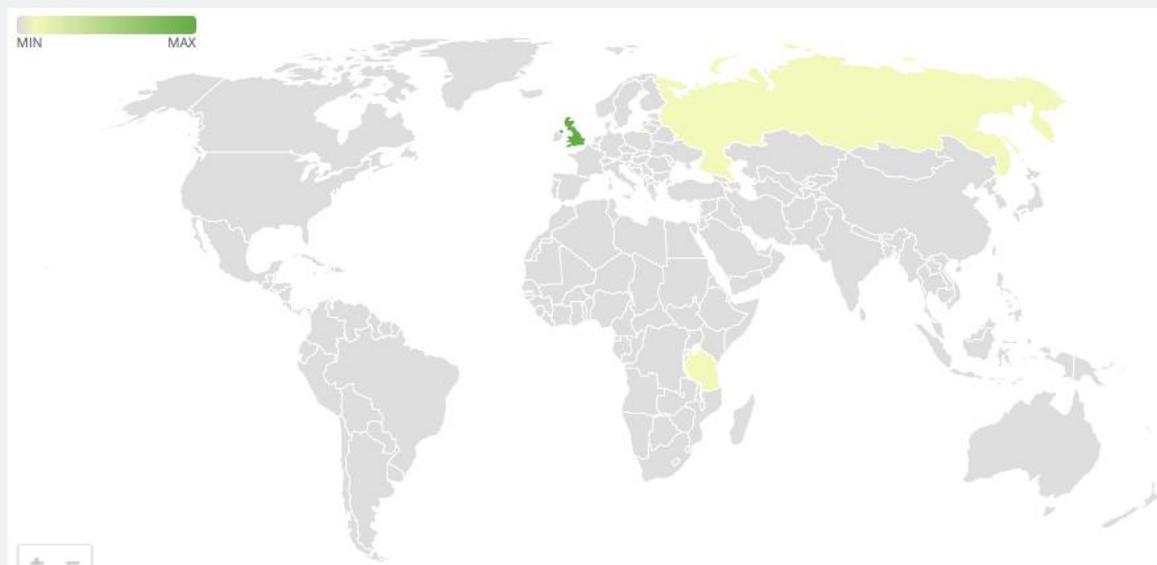
\*The data might not be available for some years.

## Publication Output by Country | International Authorship by Country

Displays the number of publications in the journal, categorized by the authors' countries.

\*Country data may not be available for all publications.

Country	Publications (%)
total: 3	total: 103
United Kingdom	5 (4.85%)
Russia	1 (0.97%)
Tanzania	1 (0.97%)



# 下一步计划—— 一站式科研小站



IG Publishing | All titles Subject ▾ Publisher ▾ 🌐 English ▾

**IGLibrary** AI Search 🔍 ▾ How to use AI tools to empower small business? [Chat with me](#)

**Jimmy Green** <sup>VIP</sup>

100 Reads 31 Ratings 31 Notebooks 2 Fellows

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- eBook  
  
**The Language of Success**  
Just Now
- Audio  
  
**The Language of Success: An...**  
4 months ago
- eBook  
  
**The Language of Success: An...**  
4 months ago
- Notebook  
  
**Literature Review Collection**  
5 months ago
- Project  
  
**Health Risk Factors Prediction**  
8 months ago
- eBook  
  
**The Language of Success**  
4 years ago

# 下一步计划——对话式搜索



我想找一些关于量子计算在密码学中应用的文献

好的,量子计算在密码学中有多个应用领域。您是对以下哪个方面更感兴趣?

- 1.量子密钥分发
- 2.后量子密码学
- 3.量子算法对现有密码系统的威胁
- 4.量子随机数生成器在密码学中的应用

## 单次查询 v. s. 对话式检索

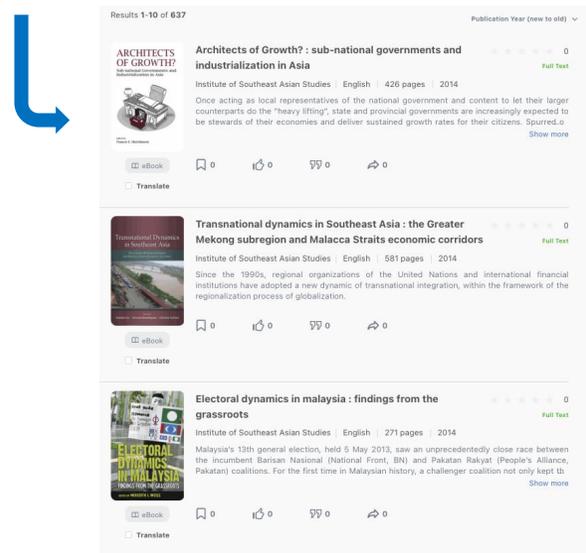
并非只在对话窗口提供若干篇文章,而是通过对话明确用户实际需求,引导用户精细化需求,减少歧义、从而找到更加准确的所需内容。并再次呈现在搜索页面。

对后量子密码学更感兴趣,尤其想了解LWE方案

明白了。关于LWE方案,有以下几个热门研究方向,您更倾向于哪一个?

1. LWE问题的难度分析
2. 基于LWE的加密方案
3. LWE在同态加密中的应用
4. LWE方案的参数选择和优化
5. Ring-LWE和Module-LWE等变体

加密方案





# PART 04

# 关于 Charleston 会议

About the requirements

DISCOVER THE CHARLESTON CONFERENCE ASIA

# 亚洲查尔斯顿会议

January 26 – 28, 2026

2026年1月26日-28日

Royal Orchid Sheraton Riverside Bangkok

泰国曼谷皇家兰花喜来登河滨酒店

[注册参会](#)

自1980年起，查尔斯顿会议每年11月在美国南卡罗来纳州查尔斯顿举办，是图书馆员、出版商、电子资源管理者、顾问和图书馆资源供应商的年度盛会。会议由图书馆员兼企业家卡蒂娜·斯特劳奇创立，旨在搭建一个友好、非正式的交流平台，促进不同领域从业者的交流与探讨。会议强调多元观点的碰撞，为新声量提供舞台，重视产业链各环节的参与。我们致力于通过知识共享激发创新思维，构建行业共同体。

“专注于学术出版与图书馆采购”

“强调开放讨论与观点交流”

“产业与学界的交汇点”

## 时间与地点

2026年1月26~28日  
泰国 曼谷  
皇家兰花喜来登河滨酒店

## iGroup的角色

iGroup 集团  
协办伙伴

## 会议主旨

聚焦 *Asia, Middle East and Africa (AMEA)* 的趋势与挑战，旨在促进来自全球学术界、出版业及资讯专业领域深度对话与交流。





感谢您的观看

Thank you