**腾讯AI Lab犀牛鸟专项研究计划申请书模版**

Tencent AI Lab Rhino-Bird Focused Research Program Proposal Template

Note: You may use either the Chinese template, or the English one at the end.

（要求提交.docx文档格式）

**一、 课题负责人基本信息**

|  |  |  |  |
| --- | --- | --- | --- |
| 姓名(中文) |  | 姓名(拼音) |  |
| 职称 |  | | |
| 学校 |  | | |
| 院系/实验室 |  | | |
| 电子邮件 |  | | |
| 手机号码 |  | | |
| 微信帐号 |  | | |
| 个人主页 | 请提供个人主页链接；如无，请以附录形式提供个人简历。 | | |
| 快递地址 |  | | |

**二. 研究计划**

|  |  |
| --- | --- |
| 腾讯伙伴 | 请填写腾讯支持该项目的研发人员姓名（如有）。 |
| 申请主题 | 请选择一项。   1. **Machine Learning for Life Science**    1. **Machine Learning for Retrosynthesis.**    2. **Machine Learning for Virtual Screening.**    3. **Machine Learning for Scaffold Hopping.**    4. **Machine Learning for ADMET Prediction.**    5. **Others.** 2. **Deep Reinforcement Learning for Robotics**    1. **Imitation Learning for Robotics.**    2. **Multi-agent Reinforcement Learning.**    3. **Non-Stationary Environment.** 3. **Computer Vision & Graphics**    1. **Face Recognition and Person Re-Identification.**    2. **Video Understanding.**    3. **Image/Video Generation.**    4. **Adversarial Machine Learning.**    5. **AutoML in Vision.**    6. **Digital Human Generation.** 4. **Natural Language Processing**    1. **Natural Language Understanding.**    2. **Natural Language Generation.**    3. **Dialogs.**    4. **Machine Translation.** 5. **Speech Technology**    1. **Far-field Signal Processing.**    2. **Speech Recognition.**    3. **Speech Generation.**    4. **Speaker Recognition.**    5. **Multi-model Speaker Tracking and Diarization.** |
| 研究题目 |  |
| 研究背景 | 研究问题及其重要性，State of the art及其不足；  言简意赅，避免无意义的长篇大论。 |
| 研究目标 | 一句话概括，建议不超过三行。 |
| 技术路线 | 阐述您的技术路线(方法)及其优势；  若需要基于腾讯的资源完成实验，请明确描述所需资源；  言简意赅，避免无意义的长篇大论。 |
| 计划进度 | 关键时间节点及该阶段产出。 |
| 预期产出 | 产出一般包括但不限于：技术储备（原型系统、算法模型、专利申请等）、学术影响（论文、竞赛等）和人才培养（实习生培养）；  产出的计划要遵守SMART原则（具体的、可衡量的、可达到的、相关的、有时效的）。 |
| 概要预算 | 申请资金额度及概要使用计划。 |

**三. 项目组成员及相关研究背景**

**项目组成员**（请勿填写不具体从事该课题的实验室其它人员）

|  |  |  |  |
| --- | --- | --- | --- |
| 姓名 | 职称（老师）  年级（学生） | 手机 | 邮箱 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

项目组成员**相关研究背景**

|  |
| --- |
| （部分项目组成员**近三年**与该项目密切相关的经验和成果，比如发表的文章等） |

**四. 附录**

若有其他需要说明的情况，请以附录形式提供。

**Tencent AI Lab Rhino-Bird Focused Research Program**

**Proposal Template**

**BASIC INFORMATION**

|  |  |
| --- | --- |
| Faculty (PI) **Name** |  |
| Faculty Chinese Name (if any) |  |
| Faculty **Title** (Professor, Associate Prof., Assistant Prof. etc.) |  |
| Faculty **University Name** |  |
| Faculty **Department** **Name** |  |
| Faculty university **Email** (please use your university email domain; e.g. “facultyID@univ.edu”) |  |
| Faculty **Phone** (country code, area code as appropriate) |  |
| Faculty **WeChat** (if any) |  |
| Faculty **Physical Mailing Address**  University name  C/O Name (for the attention of)  Building Name  Street address  City, State, Country, Zip code |  |
| URL Link to **Faculty CV**  Also fine to provide CV as appendix |  |
| Tencent Sponsor / Collaborator Name (if any) |  |
| Research Topic | *Pls. select one from the following topics:*   1. **Machine Learning for Life Science**    1. **Machine Learning for Retrosynthesis.**    2. **Machine Learning for Virtual Screening.**    3. **Machine Learning for Scaffold Hopping.**    4. **Machine Learning for ADMET Prediction.**    5. **Others.** 2. **Deep Reinforcement Learning for Robotics**    1. **Imitation Learning for Robotics.**    2. **Multi-agent Reinforcement Learning.**    3. **Non-Stationary Environment.** 3. **Computer Vision & Graphics**    1. **Face Recognition and Person Re-Identification.**    2. **Video Understanding.**    3. **Image/Video Generation.**    4. **Adversarial Machine Learning.**    5. **AutoML in Vision.**    6. **Digital Human Generation.** 4. **Natural Language Processing**    1. **Natural Language Understanding.**    2. **Natural Language Generation.**    3. **Dialogs.**    4. **Machine Translation.** 5. **Speech Technology**    1. **Far-field Signal Processing.**    2. **Speech Recognition.**    3. **Speech Generation.**    4. **Speaker Recognition.**    5. **Multi-model Speaker Tracking and Diarization.** |
| Research Project Title |  |

**RESEARCH PROPOSAL**

Should include but be not limited to the following:

* Research background and problem statement
* State of the art and its disadvantages
* Your research objective (brief summary)
* Your research methods and its potential advantages
* Your research requirements for Tencent to provide, e.g. experiment environment
* Your research schedules
* Expected output (prototype, algorithm, paper, joint training of interns etc.)

- The budget, indicating the amounts by categories of expense, and budget justification